



# **EGA** *Master*

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## **ART IN INNOVATION**



***BE SAFE...BE EFFICIENT***

[www.egamaster.com](http://www.egamaster.com)

**Q**  
to the  
Management  
Quality

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[www.aeh2.org](http://www.aeh2.org)



HEGAN - Basque Aerospace Cluster  
[www.hegan.com](http://www.hegan.com)



Asociación Española de Equipos, Soluciones y Tecnologías de Proceso en la Manipulación de Fluidos  
Spanish Association of Equipment, Solutions and Process Technologies in Fluid Handling  
Association Espagnole des Équipements, Solutions et Technologies de Traitement des Fluides  
[www.fluidexpain.com](http://www.fluidexpain.com)



Federación de Fabricantes Exportadores de Artículos de Ferrería  
Spanish Hardware Manufacturers Federation  
Fédération Espagnole de Fabricants Exportateurs d'Articles de Quincaillerie  
[www.cofearfe.com](http://www.cofearfe.com)



Foro de Marcas Líderes Renombradas Españolas  
Leading Brands of Spain Forum  
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[www.brandsofspain.com](http://www.brandsofspain.com)



Fundación Vasca para la Calidad  
Basque Foundation for Quality  
Fondation Basque pour la Qualité  
[www.euskalit.net](http://www.euskalit.net)



Red Vasca de Ciencia Tecnología e Innovación  
Agency of Innovation  
Agence Basque de L'innovation  
[www.innobasque.com](http://www.innobasque.com)



Club de Exportadores e Inversores Españoles  
Spanish Exporters and Investors Club  
Club des Exportateurs et Investisseurs Espagnols  
[www.clubexportadores.org](http://www.clubexportadores.org)



Iniciativa Global Drops para la prevención de caída de objetos  
The dropped objects prevention scheme global resource centre  
Initiative globale Drops de la prévention de chute d'objets  
[www.dropsonline.org](http://www.dropsonline.org)



Agrupación de Industrias Marítimas de Euskadi  
Association of Maritime Industries of the Basque Country  
Association des Industries Maritimes Basques  
[www.adimes.es](http://www.adimes.es)



Sindicato Empresarial Alavés  
Employer Federation of Alava  
Syndicat des Employés d'Alava  
[sie.sea.es](http://sie.sea.es)



Miembro del Foro Club de la Cámara de Comercio e Industria de Álava  
Chamber of Commerce of Alava  
Chambre de Commerce d'Alava  
[www.camaradealava.com](http://www.camaradealava.com)



Asociación para el Progreso de la Dirección  
Association for Progress in Management  
Association pour le Progrès dans le Management  
[www.apd.es](http://www.apd.es)



Fundación Iberoamericana para la Calidad  
Foundation for Quality  
Fondation Ibero-Américaine pour la Gestion de la Qualité  
[www.fundibeq.org](http://www.fundibeq.org)



Asociación de Centros de Excelencia a Nivel Nacional  
Association of Centers of Excellence  
Association de Centres d'Excellence à Niveau National  
[www.centrosdeexcelencia.com](http://www.centrosdeexcelencia.com)



Asociación Española del Pacto Mundial Un Global Compact  
Un Global Compact  
Association Espagnole du Pacte Mondial Un Global Compact  
[www.pactomundial.org](http://www.pactomundial.org)



Asociación Sectorial de Equipos, Componentes y Servicios de Energías Renovables  
Energy Supply Chain  
Association Sectorielle des Équipements, Composants et Services des Énergies Renouvelables  
[www.eschain.com](http://www.eschain.com)

## Presentado como ejemplo por:

- Comisión Europea
- Diputación Foral de Álava
- Diputación Foral de Bizkaia
- Universidad del País Vasco
- Congreso Internacional de Managing
- V Jornadas de Innovación en Gestión (Bilbao)
- Universidad de Strathclyde de Escocia
- Foro de Empresas Avanzadas en Gestión del Cluster del Conocimiento
- Universidad Autónoma de Madrid
- Forum Europa
- Club de Marketing de la Rioja
- Euskalit- Fundación Vasca para la Calidad
- CETIC - Centro de Tecnologías de la Información y la Comunicación
- Escuelas de Negocios IESE (España), INSEAD (Francia) y WHU (Alemania)
- Universidad de Boise EEUU
- Innobasque, Agencia Vasca de Innovación
- Fundación ICIL
- Universidad de Deusto
- SEA - Empresarios Alaveses
- Gobierno Vasco (SPRI)
- Ministerio de Industria (Círculo Bellas Artes)
- Fundación Navarra para la Excelencia
- Universidad de Navarra
- CFL (Dinamarca)
- Asociación para el Progreso de la Dirección (APD)
- Universidad Adolfo Ibañez (Chile)

## Presented as an example by:

- European Commission
- Provincial Government of Alava
- Provincial Government of Bizkaia
- University of the Basque Country
- International Management Congress
- 5th Meeting of Innovation in Management (Bilbao)
- University of Strathclyde (Scotland)
- Forum of Companies Advanced in Management of the Cluster of Knowledge
- Autonomous University of Madrid
- Forum Europa
- Marketing Club of Rioja
- Euskalit- Basque Foundation for Quality
- CETIC- Center of Information and Communication Technologies
- IESE (Spain), INSEAD (France) and WHU (Germany) Business Schools
- Boise University EEUU
- Innobasque, Basque Innovation Agency
- ICIL Foundation
- Deusto University
- SEA - Entrepreneurs of Alava
- Basque Government (SPRI)
- Ministry of Industry
- Navarra Foundation for Excellence
- University of Navarra
- Center for Ledesle, CFL (Denmark)
- Association for Progress in Management (APD)
- Adolfo Ibañez University (Chile)

## Présenté comme exemple pour:

- Commission Européenne
- Députation d'Alava
- Députation de Biscaye
- Université du Pays Basque
- Congrès International du Management
- V Journées de l'Innovation dans la Gestion (Bilbao)
- Université de Strathclyde de l'Ecosse
- Forum des Entreprises Avancées en Gestion du Cluster des Connaissances
- Université Autonome de Madrid
- Forum Europe
- Marketing Club de la Rioja
- Euskalit- Fondation Basque pour la Qualité
- CETIC- Centre de Technologies de l'Information et de la Communication
- Ecoles Supérieures de Commerce IESE (Espagne), INSEAD (France) et WHU (Allemagne)
- Université de Boise, EEUU
- Innobasque, Agence Basque pour l'Innovation
- Fondation ICIL
- Université de Deusto
- SEA - Entrepreneurs d'Alava
- Gouvernement Basque (SPRI)
- Ministère d'Industrie (Cercle de Beux-Arts)
- Fondation Navarre pour l'Excellence
- Université de Navarre
- CFL (Danemark)
- Association pour le Progrès dans le Management (APD)
- Université Adolfo Ibañez (Chili)



to the  
Management  
Quality



**Amy Yang**  
Procurement

**KBR - Kellogg Brown & Root LLC (USA)**

“ EGA Master was awarded a purchase order to supply Workshop Toolsets for the Sadara Project located in Saudi Arabia based on their commercially and technically acceptable offer.

KBR was very pleased with EGA Master’s responsiveness during the bidding phase and performance throughout the execution phase of the order. EGA Master exemplified excellent customer service, attention to detail and quality work which allowed the order to be inspected and delivered successfully and on-time.

KBR would definitely consider working with EGA Master again should the opportunity arise. ”

# TESTIMONIALS

## REPSOL

### Spain

Rafael Ramirez Gómez  
Static Reliability Chief- Reliability Department

"EGA Master has developed and custom-made special valve wrenches for Repsol."

## AERNNNOVA

### Spain

Jose Manuel Guerra Verdejo  
Industrialization General Manager

"In record time, EGA Master implemented a complete line of smart workstations, designed and manufactured just for our needs."

## KELLOGG BROWN & ROOT

### USA

Amy Yang  
Procurement

"KBR was very pleased with EGA Master's responsiveness during the bidding phase and performance throughout the execution phase of the order. EGA Master exemplified excellent customer service, attention to detail and quality work which allowed the order to be inspected and delivered successfully and on-time."

## ENGIE

### Mexico

José Ángel Lázaro  
Head of Maintenance

"We have trusted EGA Master as our non-sparking tools supplier due to the high quality of its products. Furthermore, it is a reliable supplier that brings us the most complete service we have found in our industry. Safety is very important for us and through EGA Master we have access to the solutions we need to ensure the safety and productivity of our employees across the different business lines."

## PPG

### Mexico

Eng. Mario Feregrino  
EHS Team Leader

"At PPG safety is very important. Through EGA Master we have access to the solutions that we need to ensure the security and productivity of our employees."

## EGE HAINA

### Dominican Republic

Wendy Calderón  
Purchasing Manager

"We have trusted EGA Master for the supply of mechanical tools. In our industry, safety and quality are highly valued parameters and we feel really satisfied with the delivered products."

## EP PETROECUADOR

### Ecuador

Eng. Elías Valencia Delgado  
Terminals Head of Maintenance

"When you work at a Petrochemical company you are exposed to fire hazards that put at risk the life of your workforce, the most valuable assets a company has. We have therefore put our trust on EGA Master as a supplier of our Non-Spark CU-BE tools. This is due to the high quality of the tools and the wide range of products the company can offer us."

## TAP Engineering and Maintenance

### Portugal

Pedro Henriques  
Purchasing Manager

"EGA Master has been in this last 4 years a great support for TAP Engineering and Maintenance in Lisbon and Brazil. Key factors as top quality, delivery time, versatility, and constant innovation turned EGA Master into strategic partner with whom we can always trust in any situation."

## ARCELORMITTAL

### Spain

Roberto Traver Barres  
Industrial Support Technician

"At EGA Master we have found a manufacturer with the industrial quality and safety orientation that Arcelor Mittal requires, with the necessary flexibility to adapt to our needs. The Total Safety Wrench in particular is a solution that meets our needs and that we have not found in the market."

## SUKHOI CIVIL AIRCRAFT

### Russia

Savchenko O.S.  
Deputy Director of the Technical Department

"Following the results of the tests carried out at the SCAC (Sukhoi Civil Aircraft Company) in Komsomolsk-en-Amur during 2017, it was decided to recommend the EGA Master branded products."

## MINISTÈRE DE L'ARMÉE DE L'AIR FRANÇAISE

### France

Stationnée à Djibouti

"La société EGA Master propose un large panel d'outillage de qualité dans différents domaines. Capable de concevoir de l'outillage adapté à un besoin particulier, EGAMASTER a répondu rapidement à nos demandes catalogue et hors catalogue. Toujours à l'écoute du retour client afin de répondre au mieux à vos attentes."

## CNOOC

### China

Ji Liu  
Maintenance Chief

"The Non-Sparking tools of EGA Master are perfect in fine detail and craftsmanship."

## BHARAT OMAN REFINERY

### India

Atul Khare  
Dy. Manager

"Safety is important for us, and through EGA Master, we are able to access the safety solutions that are needed to keep our workforce safe and productive."

## SAPURA-KENCANA

### Malaysia

Mr. Azmi Mohamed  
Senior Manager

"EGA Master's service is fast and responsive. We feel well supported to find solution to our needs."

## EXXONMOBIL

### Nigeria

Chidi Ahamefula  
Central Tools Coordinator

"Safety is the watch word in our company and using EGA Master tools has helped us maintain that record over the years. Using the right tool helps you accomplish your task timely and safely, and EGA Master tools have consistently fulfilled that need for us."

## ENDEL ENGIE

### Reunion Island

Bertrand Baret  
Purchasing Manager

"We are always looking to work with suppliers that can provide solutions that meet our needs. The ability of EGA Master to innovate and provide such a flexible service is of great value to us."

# MORE TESTIMONIALS

## RENAULT

### Portugal

Pedro Amorim  
Industrial Maintenance Technician

"In EGA Master, I have found tools that meet the safety requirements of maintenance professionals: Appropriate tools for our needs, short delivery times and technical support, are three important factors for a close partnership in the development of new solutions. That's what I found with EGA Master."

## NESTLE

### Portugal

Miguel Pinto  
Health and Safety Department

"Due to the various solutions, it presents, especially in terms of safety tools and even more so with control systems, meeting the requirements of Industry 4.0, EGA Master is undoubtedly an excellent partner when it comes to the areas of production and maintenance and safety."

## COCA-COLA

### Cabo Verde

António Barros  
Technical Supervisor

"We are very satisfied with the personalization by laser marking and the quality of EGA Master tools, as well as with the company's after-sales service."

## VOLKSWAGEN

### Mexico

Edmundo Homero Cacho  
Engineer

"EGA Master's service is fast and effective. We believe that in EGA Master we have a supplier we can trust to find solutions to our needs."

## GENERAL MOTORS

### Mexico

Luis Mata  
Maintenance coordinator

"We trusted EGA Master for the purchase of mechanical tools and the delivery time was satisfactory and on time. Our staff is working very comfortable with the tool. It has met our standards and we highly recommend it."

## FERREYROS CAT

### Peru

Victor Alfonso Quispe Trujillo  
Logistical support

"We recommend the use of EGA Master Copper-Beryllium sledge-hammers in mining operations because its alloy is safer in the activities of blade maintenance as it does not produce chips that may cause injuries to workers."

## PRAXAIR

### Peru

Enrique Rachitoff  
Bulk Distribution Manager

"We have chosen EGA Master as a supplier of non-sparking tools due to the high quality of their products and the wide range they offer us."

## SOUTHERN PERU COPPER CORPORATION

### Peru

Mauricio Pérez  
Senior Concentrator Plant Maintenance

"The copper-beryllium sledge hammers from EGA Master have brought excellent results to our mining operations due to their safety and performance."



## IVECO DEFENCE

### Italy

Renato Modesto  
Machinery Responsible Engineer

"We always try to work with manufacturers that are able to provide solutions that meet our needs. EGA Master's ability to innovate and provide flexible services is of great value to us."

## MSC

### Italy

Luigi Stacoli  
Chief Procurement Officer

"Our business requires trustworthiness, flexibility and fast reactions. We have found all these traits in EGA Master and they are supporting our operations with quality products, tailor made solutions and state of the art service level."

## SONATRACH

### Algeria

Mohamed Khelif  
Mechanical Engineer

"EGA Master is a manufacturer that offers very good tools in terms of reliability, durability and finish."

## MERCEDES-BENZ

### Malaysia

Chantramohan Suparmaniam  
Production Manager

"EGA Master is a trusted supplier that offers us the best service in the industry. We see EGA Master as a key partner for us going forward."

## DARMA HENWA

### Indonesia

Rikko Denia  
Purchasing Manager

"We would recommend EGA Master to any company looking for the widest range of premium quality products, and a responsive service that nobody in the industry can match."

## ELETROPAULO

### Brasil

Glauber Lima Fraga  
Project Manager

"The persistence shown by EGA Master to find a solution that would meet the customer's needs is a clear evidence of EGA Master's commitment to fulfil the needs and requirements of its customers."

## SHELL

### Nigeria

Godfrey Ekeke  
Maintenance Planner

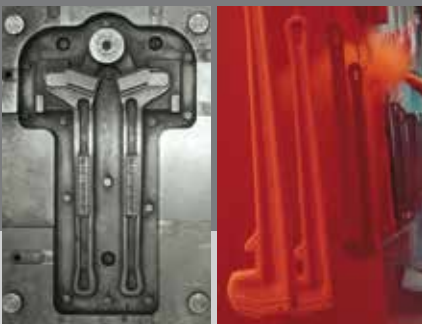
"EGA Master Tools are absolutely amazing tools in terms of value in safety, convenience and versatility."

## Iñaki Garmendia

Presidente y Fundador  
Chairman & Founder  
Président et Fondateur



“ En EGA Master nos comprometemos a usar la innovación, la tecnología y la excelencia empresarial para el desarrollo y fabricación de herramientas, equipos y servicios de calidad industrial PREMIUM a través de una solución integral que permita mantener a los trabajadores seguros y eficientes. ”



### Nuestra propuesta se sustenta en 5 pilares principales:

#### Solución Integral

EGA Master es el único fabricante de herramientas con una oferta de 12 completas gamas de alta innovación que permite una mayor eficiencia de la gestión empresarial.

#### Calidad Industrial Premium

EGA Master fabrica para más de 100 empresas con su propia personalización, incluyendo muchas de las marcas líderes mundiales del sector.

### *The EGA Master proposition is sustained on 5 key pillars:*

#### *One Stop Solution*

*EGA Master is currently the only manufacturer that offers 12 ranges under a one-stop solution that result in cost efficiencies for our customers.*

#### *Premium Industrial Quality*

*EGA Master manufactures for more than 100 different companies, including some of the leading brands in the industry.*

### Notre offre se soutient sous 5 piliers principaux:

#### Solution Intégral

EGA Master est le seul fabricant qui offre 12 gammes complètes de haute innovation, ce qui permet plus d'efficacité de gestion d'entreprise.

#### Qualité industrielle Premium

EGA Master fabrique pour plus de 100 entreprises avec sa propre personnalisation, parmi lesquelles beaucoup sont des marques leaders mondiales du secteur.

**“ In EGA Master we endeavour to use innovation, technology and management excellence for the development and manufacture of PREMIUM industrial quality tools, equipment and services through a one stop source to keep professionals across industries safe and efficient. ”**

**“ Chez EGA Master nous nous engageons à utiliser l'innovation, la technologie et l'excellence entrepreneuriale pour le développement et fabrication d'outils, d'équipements et de services de qualité industrielle PREMIUM par l'intermédiaire d'une solution intégrale qui permet d'assurer la sécurité et l'efficacité des travailleurs. ”**

### Rapidez de Servicio

El modelo de fabricación e inversión en stock de EGA Master permite ofrecer unos niveles de disponibilidad de más de un 98 % en los más de 150 países a los que distribuye sus productos.

### Innovación

EGA Master ha desarrollado más de 200 patentes e invierte en I+D+i, aproximadamente, un 6 % de su facturación.

### Integración Horizontal

El modelo industrial, basado en la Integración Horizontal de los Procesos de Fabricación, aporta a EGA Master una mayor flexibilidad, agilidad, rapidez de respuesta, productividad y competitividad.

### Quick Service

*As a result of our manufacturing model and investment in stock, we are able to provide an availability level above 98% across the 150 we distribute to.*

### Innovation

*EGA Master holds more than 200 patents and invests around 6% of its turnover in R&D+I.*

### Horizontal Integration

*The industrial model, based on a Horizontally Integrated Manufacturing Process, provides EGA Master with greater flexibility, productivity, responsiveness and competitiveness.*

### Rapidité de Service

Le modèle de fabrication et l'inversion en stock d'EGA Master offre des niveaux de disponibilité de plus de 98% dans plus de 150 pays qui distribuent ses produits.






### Innovation

EGA Master a développé plus de 200 brevets et investit, à peu près le 6% de sa facturation, en I+D+I.

### Intégration Horizontale

Le modèle industriel, fondé sur l'Intégration Horizontale des Procédés de Fabrication, apporte à EGA Master une plus grande flexibilité, agilité, rapidité de réponse, productivité et compétitivité.

# LA MÁS GALARDONADA / THE MOST AWARDED / LA PLUS PRIMÉE

|                                                                                     |                                                                                                                                                                                                                                                                                                                                               |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <p><b>International Quality Innovation Award EGA Solutions, Excellence Finland Laatuakeskus, Moscú 2022</b><br/> <i>International Quality Innovation Award EGA Solutions, Excellence Finland Laatuakeskus, Moscow 2022</i><br/> <b>International Quality Innovation Award EGA Solutions, Excellence Finland Laatuakeskus, Moscou 2022</b></p> |    | <p><b>Certificado Bai Euskarari, 2014</b><br/> <i>Linguistic Certification, 2014</i><br/> <b>Certification Linguistique, 2014</b></p>                                                                                                                                                                                                                                        |
|    | <p><b>Quality Innovation Award EGA Solutions, Euskalit 2021</b><br/> <i>Quality Innovation Award EGA Solutions, Euskalit 2021</i><br/> <b>Quality Innovation Award EGA Solutions, Euskalit 2021</b></p>                                                                                                                                       |    | <p><b>Premio a la Internacionalización de la Cámara de Comercio de Álava, 2013</b><br/> <i>Internationalization Award, Chamber of Commerce, 2013</i><br/> <b>Prix à l'Internationalisation de la Chambre de Commerce d'Alava, 2013</b></p>                                                                                                                                   |
|    | <p><b>ISO 37001 Compliance-Antisoborno, 2021</b><br/> <i>ISO 37001 Compliance Anti-bribery Management Systems, 2021</i><br/> <b>ISO 37001 Compliance-Anticorruption, 2021</b></p>                                                                                                                                                             |    | <p><b>Premio a la Internacionalización de IE Business School e Iberinform, 2013</b><br/> <i>International Business Award 2013 by IE Business School, 2013</i><br/> <b>Prix à l'Internationalisation de IE Business School et Iberinform, 2013</b></p>                                                                                                                        |
|    | <p><b>ISO 45001, 2020</b><br/> <i>ISO 45001, 2020</i><br/> <b>ISO 45001, 2020</b></p>                                                                                                                                                                                                                                                         |    | <p><b>Premio al Producto Más Innovador, Ferroforma 2013</b><br/> <i>Award to the Most Innovative Industrial Product, Ferroforma 2013</i><br/> <b>Prix au Produit le Plus Innovateur, Ferroforma 2013</b></p>                                                                                                                                                                 |
|    | <p><b>Producto Más Innovador (Feria NSC de Seguridad, San Diego, EEUU, 2019)</b><br/> <i>"Best in Show" New Product Showcase Awards (National Safety Council 2019 Congress &amp; Expo, San Diego, USA)</i><br/> <b>Produit le plus innovateur (Salón NSC de Sécurité, San Diego, EUA, 2019)</b></p>                                           |    | <p><b>Certificado de Calidad BIKAIN, 2013</b><br/> <i>BIKAIN certificate, 2013</i><br/> <b>Certificat de qualité BIKAIN, 2013</b></p>                                                                                                                                                                                                                                        |
|    | <p><b>Premio Banco Santander a la empresa del año, 2019</b><br/> <i>Banco Santander Award to the Company, 2019</i><br/> <b>Prix Banco Santander à l'entreprise de l'année, 2019</b></p>                                                                                                                                                       |    | <p><b>Ruban d'Honneur, European Business Awards 2012/13</b><br/> <i>Ruban d'Honneur, European Business Awards 2012/13</i><br/> <b>Ruban d'Honneur, European Business Awards 2012/13</b></p>                                                                                                                                                                                  |
|    | <p><b>International Quality Innovation Award, Beijing 2019</b><br/> <i>International Quality Innovation Award, Beijing 2019</i><br/> <b>International Quality Innovation Award, Beijing 2019</b></p>                                                                                                                                          |    | <p><b>Premio Internacional al Mejor Modelo de Negocio, 2012</b><br/> <i>International Award by Development Systems to the Best Business Model, 2012</i><br/> <b>Prix International au Meilleur Modèle d'Entreprise, 2012</b></p>                                                                                                                                             |
|   | <p><b>Quality Innovation Award, Euskalit 2018</b><br/> <i>Quality Innovation Award, Euskalit 2018</i><br/> <b>Quality Innovation Award, Euskalit 2018</b></p>                                                                                                                                                                                 |   | <p><b>Premio a la Internacionalización, Club de Exportadores e Inversores, 2011</b><br/> <i>Internationalization Award by The Spanish Exporters and Investors Club, 2011</i><br/> <b>Prix de l'Internationalisation, Club des Exportateurs et Investisseurs, 2011</b></p>                                                                                                    |
|  | <p><b>Premio Confebask, Mejor Instructor, 2018</b><br/> <i>Confebask Award, Best Instructor, 2018</i><br/> <b>Prix Confebask, Meilleur Instructeur, 2018</b></p>                                                                                                                                                                              |  | <p><b>Premio Finalista en Innovación CEX Asociación Española de Centros de la Excelencia, 2011</b><br/> <i>Finalist Award for Best Practice in Innovation 2011, by CEX Spanish Association of Centers of Excellence</i><br/> <b>Prix Finaliste en Innovation CEX Association Espagnole des Centres d'Excellence, 2011</b></p>                                                |
|  | <p><b>Premio Pacto Verde a las buenas prácticas medioambientales, 2018</b><br/> <i>Green Pact Award for good environmental practices, 2018</i><br/> <b>Prix Pacte Vert aux bonnes pratiques environnementales, 2018</b></p>                                                                                                                   |  | <p><b>Premio Nacional al Relevé Generacional, 2010</b><br/> <i>Company Succession National Award, 2010</i><br/> <b>Prix national à la relève générationnel, 2010</b></p>                                                                                                                                                                                                     |
|  | <p><b>Empresa del año 2018, El Correo - Banco Sabadell</b><br/> <i>Company of the year 2018, El Correo - Banco Sabadell</i><br/> <b>Entreprise de l'année 2018, El Correo - Banco Sabadell</b></p>                                                                                                                                            |  | <p><b>Premio Iberoamericano de la Calidad y Excelencia 2010, Premio Oro</b><br/> <i>Iberoamerican Award for Quality Management &amp; Excellence 2010</i><br/> <b>Prix Ibéro-américain de la Qualité et l'Excellence 2010, Prix d'Or</b></p>                                                                                                                                  |
|  | <p><b>Premio a la Innovación Industrial Vodafone-Deia, 2017</b><br/> <i>Vodafone-Deia Industrial Innovation Award, 2017</i><br/> <b>Prix de l'innovation industrielle Vodafone-Deia 2017</b></p>                                                                                                                                              |  | <p><b>Medalla de Oro por la Oficina Nacional de la Normalización de Cuba, 2010</b><br/> <i>Gold Medal, National Office of Standards and Normalization of Cuba, 2010</i><br/> <b>Médaille d'Or par le Bureau National de la Normalisation de Cuba, 2010</b></p>                                                                                                               |
|  | <p><b>Premio BANKIA-ACOCEX a la Trayectoria Internacional, 2016</b><br/> <i>International Business Award BANKIA-ACOCEX, 2016</i><br/> <b>Prix BANKIA ACOCEX pour son Parcours International, 2016</b></p>                                                                                                                                     |  | <p><b>Premio Dato de Oro a la Empresa Solidaria, 2010</b><br/> <i>"Dato de Oro" Award on Corporate Social Responsibility, 2010</i><br/> <b>Prix Dato d'Or à l'Entreprise Solidaire, 2010</b></p>                                                                                                                                                                             |
|  | <p><b>Quality Innovation Award, Euskalit 2016</b><br/> <i>Quality Innovation Award, Euskalit 2016</i><br/> <b>Quality Innovation Award, Euskalit 2016</b></p>                                                                                                                                                                                 |  | <p><b>Premio Europeo a la Mejor Práctica de Innovación, Foro EFQM 2010</b><br/> <i>European Award to the Best Practice in Innovation, by the EFQM Forum, 2010</i><br/> <b>Prix Européen à la Meilleure Pratique d'Innovation, Forum EFQM 2010</b></p>                                                                                                                        |
|  | <p><b>Sello Pyme Innovadora del Ministerio Español de Economía y Competitividad, 2016</b><br/> <i>Innovative SME Stamp from the Spanish Ministry of Economy and Competitiveness, 2016</i><br/> <b>Label de la PME Innovatrice du Ministère Espagnole de l'Economie et de Compétitivité, 2016</b></p>                                          |  | <p><b>Premio Finalista a la Excelencia Industrial por IESE (España), INSEAD (Francia) y WHU (Alemania), 2010</b><br/> <i>Industrial Excellence Finalist Award by IESE (Spain), INSEAD (France) and WHU (Germany) Business Schools, 2010</i><br/> <b>Prix finaliste à l'Excellence Industrielle attribué par IESE (Espagne), INSEAD (France) et WHU (Allemagne), 2010</b></p> |
|  | <p><b>Premio Juan José Azurmendi a la Trayectoria Empresarial, 2014</b><br/> <i>Employers Federation Award for a Lifelong Entrepreneurial Achievement, 2014</i><br/> <b>Prix Juan José Azurmendi à la Trajectoire Entrepreneuriale, 2014</b></p>                                                                                              |  | <p><b>Premio Gran Emprendedor, 2010</b><br/> <i>Great Entrepreneur Award for the Founder and Chairman of EGA Master, 2010</i><br/> <b>Prix Grand Entrepreneur, 2010</b></p>                                                                                                                                                                                                  |
|  | <p><b>Premio Lazarraga, 2014</b><br/> <i>Basque Language Award, 2014</i><br/> <b>Prix de la Langue Basque, 2014</b></p>                                                                                                                                                                                                                       |  | <p><b>Premio I+D+i en Herramientas de Seguridad, 2010</b><br/> <i>R&amp;D Award for Safety Tools, 2010</i><br/> <b>Prix R&amp;D+i pour les Outils de Sécurité, 2010</b></p>                                                                                                                                                                                                  |
|  | <p><b>OHSAS 18001, 2014</b><br/> <i>OHSAS 18001, 2014</i><br/> <b>OHSAS 18001, 2014</b></p>                                                                                                                                                                                                                                                   |  | <p><b>Q de Oro EFQM, 2009</b><br/> <i>EFQM Golden Q Award, 2009</i><br/> <b>Q d'Or EFQM, 2009</b></p>                                                                                                                                                                                                                                                                        |



**Premio Human a la Estrategia Basada en Personas, 2009**  
Human Award for its Strategy Based on People, 2009  
Prix Human pour la Stratégie Basée sur les Personnes, 2009



**Premio a la Mejor Idea en Herramientas del Club de Inventores Españoles, 2007**  
Best Tool Award by "Spanish Inventor's Club", 2007  
Prix à la Meilleure Idée en Outillage du Club des Inventeurs Espagnols, 2007



**Premio ICIL a la Excelencia Logística, 2009**  
ICIL Award to Excellence in Logistics, 2009  
Prix ICIL à l'excellence en Logistique, 2009



**Medalla de Oro a la Calidad de la Oficina Nacional de la Normalización de Cuba, 2006**  
Gold Medal, National Office of Standards and Normalization of Cuba 2006  
Médaille d'Or à la Qualité du Bureau National de la Normalisation de Cuba, 2006



**ISO 9001:2008, 2009**  
ISO 9001:2008, 2009  
ISO 9001-2008, 2009



**Premio al Mejor Diseño de la Oficina Nacional de Diseño Industrial de Cuba a la Llave Vasca, 2006**  
Best Design Award, National Office of Industrial Design of Cuba, 2006  
Prix du Meilleur Dessin du Bureau National de Dessin Industriel de Cuba pour la Clé Basque, 2006



**Premio Finalista a la Mejor Web Corporativa, 2009**  
Finalist Award to the Best Company Website, March 2009  
Prix Finaliste au Meilleur Site Web Corporatif, 2009



**Premio Finalista Príncipe Felipe a la Excelencia Empresarial, 2005**  
Principe Felipe Finalist Award to Corporate Excellence, 2005  
Prix Finaliste Principe Felipe à l'Excellence Industrielle, 2005



**Premio Príncipe Felipe a la Excelencia en Competitividad Empresarial, 2008**  
Principe Felipe Award to Corporate Excellence in Competitiveness, 2008  
Prix Principe Felipe à l'Excellence en Compétitivité Entrepreneuriale, 2008



**Q de Plata EFQM, 2005**  
EFQM Silver Q Award, 2005  
Q d'Argent EFQM, 2005



**Premio Finalista Príncipe Felipe a la Excelencia Empresarial en Internacionalización, 2008**  
Principe Felipe Finalist Award to Corporate Excellence in Internationalization, 2008  
Prix Finaliste Principe Felipe a l'Excellence Entreprise en Internationalisation, 2008



**Premio ARGILAN "Empresa y Empleo en Igualdad", 2005**  
ARGILAN Award for Gender Equality at the Work Place, 2005  
Prix ARGILAN "Entreprise et Emploi en Egalité", 2005



**Premio Toribio Echevarría de Internacionalización, 2008**  
Toribio Echevarría Export Award, 2008  
Prix Toribio Echevarría de l'Internationalisation, 2008



**5 Medallas en el Salón Internacional de la Invención de París, "Concours Lepine", Paris 2004**  
5 Medals received at the International Invention Competition in Paris, "Concours Lepine" 2004  
5 Médailles au Salon International de l'Invention de Paris, "Concours Lepine", Paris 2004



**Medalla de Oro al Diseño por la Oficina Nacional de la Normalización de Cuba, 2008**  
Gold Medal by the Cuban Office of Normalization, 2008  
Médaille d'Or au Design par le Bureau National de la Normalisation de Cuba, 2008



**Joven Empresario del Año, 2003**  
Young Businessman Award, 2003  
Jeune Entrepreneur de l'Année, 2003



**Q de Plata EFQM, 2008**  
EFQM Silver Q Award, 2008  
Q d'Argent EFQM, 2008



**Premio Especial de la Unión Francesa de Inventores, 2003**  
Special Prize of French Inventor Association, 2003  
Prix Spécial de l'Union Française des Inventeurs, 2003



**Premio Finalista Dato de Oro a la Empresa Solidaria de Álava, 2008**  
"Dato de Oro" Finalist Award on Corporate Social Responsibility, 2008  
Finaliste Dato d'Or à l'Entreprise Solidaire d'Álava, 2008



**Diploma de Ekoscan, 2003**  
Ekoskan Diploma 2003  
Diplôme d'Ekoscan, 2003



**La Llave Alavesa de EGA Master elegida para la Exposición "La Utilidad del Diseño" del Círculo de Bellas Artes, 2008**  
The Fine Arts Circle of Spain chooses the Basque Wrench for its "Usefulness of Design" Exhibition 2008  
La Clé Basque d'EGA Master élue pour l'exposition « l'Utilité du Dessin » du Cercle des Beaux Arts, 2008



**Medalla de Plata del Mundial de la Invención e Innovación, Paris 2003**  
Silver Medal at the World Congress of Innovation and Invention, Paris 2003  
Médaille d'argent au Mondial de l'invention et de l'innovation, Paris 2003



**Premio a la Integración Profesional de los Jóvenes de la Fundación Novia Salcedo, 2008**  
Excellence Award to the Professional Integration of Young People by Novia Salcedo Foundation, 2008  
Prix à l'Intégration Professionnelle des Jeunes de la Fondation Novia Salcedo, 2008



**ISO 9001:2000, 2003**  
ISO 9001:2000, 2003  
ISO 9001-2000, 2003



**Premio Mejor Producto del Año a la Mastergrip, 2007**  
Best Product Award for Mastergrip, 2007  
Prix du Meilleur Produit de l'Année à la Mastergrip, 2007



**Premio a la Exportación, 2002**  
Export Award of Chamber of Commerce, 2002  
Prix à l'Exportación, 2002



**Premio al Mejor Diseño de la Oficina Nacional de Diseño Industrial de Cuba, 2007**  
Best Design Award National Office of Industrial Design of Cuba, 2007  
Prix au Meilleur Design du Bureau National du Design Industriel de Cuba, 2007



**Diploma de Excelencia EFQM, 2002**  
EFQM Excellence Diploma, 2002  
Diplôme d'Excellence EFQM, 2002



**ISO 14001:2004, 2007**  
ISO 14001:2004, 2007  
ISO 14001-2004, 2007



**Premio a la Innovación Metalmaq, 2001**  
Innovation Award at Metalmaq, Lisbon 2001  
Prix à l'innovation Metalmaq, 2001



**5 Medallas obtenidas en el Salón Internacional de la Invención de París, "Concours Lepine", Paris 2007**  
5 Medals received at the International Invention Competition in Paris, "Concours Lepine" April 2007  
5 Médailles obtenues au Salon International de l'Invention de Paris, "Concours Lepine", Paris 2007



**Trofeo Internacional a la Calidad, Paris 1998**  
International Quality Award, Paris 1998  
Trophée International à la Qualité, Paris 1998



**Premio a la Calidad, otorgado por el Ministerio de la Construcción de Cuba, 2007**  
Quality Award, Ministry of Construction of Cuba, 2007  
Prix à la Qualité, attribué par le Ministère de la Construction de Cuba, 2007



**Empresa Alavesa del Año, 1998**  
Company of the Year, 1998  
Entreprise de l'Année 1998 en Alava

# PREMIOS DESTACADOS

MAIN AWARDS

PRIX ÉMINENTS

## EGA Master, Premio Iberoamericano a la Excelencia

EGA Master winner of the Ibero-American Quality Management Award

EGA Master, Prix Ibero-Américain à l'Excellence



La Fundación Iberoamericana para la Gestión de la Calidad (Fundibeq) concedió el Premio Iberoamericano de la Calidad y Excelencia, Premio Oro a EGA Master. El Premio Iberoamericano a la Excelencia es un programa de las Cumbres Iberoamericanas de Jefes de Estado y de Gobierno basado en el Modelo Iberoamericano de Excelencia en la Gestión que reconoce a las empresas más avanzadas y con los mejores resultados.

EGA Master is the winner of the Ibero-American Quality Award from Foundation for the Management Quality (Fundibeq). The awards are part of a program set up by the Ibero-American Summit of Governments and Heads of State. The event recognizes the companies with the best management level and results in Spain, Portugal and all of Latin America. EGA Master is the only hand tool manufacturer ever to have won this prestigious award.

La Fondation Ibéro-américaine pour la Gestion de la Qualité (Fundibeq) a décerné le Prix Ibéro - Américain de la Qualité et l'Excellence, Prix d'Or à EGA Master. Ce prix est un programme du sommet Ibéro-américain de Chefs d'État et de Gouvernement basé sur le Modèle Ibéro-américain d'Excellence de Gestion qui donne la reconnaissance aux entreprises les plus développées et avec les meilleurs résultats.

## Q de Oro a la Excelencia en la Gestión según el Modelo Europeo EFQM

Golden Q to the Management Quality according to the European Model EFQM

Q d'Or à la Qualité de Gestion, selon le Modèle Européen EFQM



## EGA Solutions logra el premio internacional "Quality Innovation Award" de Laatukskus Excellence Finland

EGA Solutions achieved the international "Quality Innovation Award" from Laatukskus Excellence Finland

EGA Solutions remporte le prix international « Quality Innovation Award » de Laatukskus Excellence Finland



EGA Solutions (EGA Group) reconocida con el Quality Innovation Award. El premio fue firmado y recibido de manos del Presidente de Finlandia Sauli Niinistö. La innovadora práctica presentada por EGA Solutions y desarrollada para ITP Aero (grupo Rolls-Royce), ha consistido en una solución de trazabilidad integral en el proceso de montaje de mecanizado de piezas de motores de avión, desplegando un ecosistema tecnológico escalable, flexible y sostenible, desde el punto de vista de su operación y su eficiencia económica.

EGA Solutions (EGA Group) recognised with the Quality Innovation Award. The award was signed and received by the President of Finland Mr. Sauli Niinistö. The innovative practice presented by EGA Solutions and developed for ITP Aero (Rolls-Royce group), has consisted on a comprehensive traceability

solution in the machining assembly process of aircraft engine parts, deploying a scalable, flexible and sustainable technological ecosystem, from the point of view of its operation and its economic efficiency.

EGA Solutions (Groupe EGA) récompensée par le prix « Quality Innovation Award ». Le prix a été signé et reçu par le Président de la Finlande Sauli Niinistö. La pratique innovante présentée par EGA Solutions et développée pour ITP Aero (groupe Rolls-Royce), a consisté en une solution complète de traçabilité dans le processus d'assemblage de pièces de moteurs d'avions, déployant un écosystème technologique évolutif, flexible et durable, du point de vue de son fonctionnement et de son efficacité économique.

**EGA Master, Premio Príncipe Felipe a La Excelencia Empresarial en Competitividad**

EGA Master wins the Príncipe Felipe Award, top Excellence Award in Spain

EGA Master, Prix Príncipe Felipe à l'Excellence Entrepreneuriale en Compétitivité



EGA Master mereció el galardón especial Premio Príncipe Felipe a la Excelencia Empresarial en Competitividad. El premio lo recibió su presidente, Iñaki Garmendia, en un acto presidido por Su Alteza Real el Príncipe Felipe. EGA Master fue también premiado en esta edición como finalista en la modalidad de Internacionalización con mención especial y expresa en su presentación.

EGA Master has been awarded with the special Príncipe Felipe Award to the Management Excellence in Competitiveness. The Chairman of Ega Master, Iñaki Garmendia, received the award in a ceremony presided by His Royal Highness Prince Felipe of Spain. EGA Master has also been finalist in the Most International Company category, with special mention in the ceremony.

EGA Master a mérité la récompense spéciale Prix Príncipe Felipe à l'Excellence Entrepreneuriale en Compétitivité. C'est son Président Iñaki Garmendia qui a reçu le prix au cours d'un acte présidé par Son Altesse Royale le Prince Felipe. EGA Master a également été récompensé en tant que finaliste dans la catégorie «Internationalisation» avec une mention spéciale et expresse dans sa présentation.

**EGA Master, una de las 100 Marcas más Renombradas de España**

EGA Master, Top 100 Leading Brands of Spain

EGA Master, Top 100 Leading Brands of Spain



EGA Master ha sido elegida como una de las 100 marcas españolas más destacadas y valoradas a nivel internacional y como tal, incluida como miembro en el prestigioso Foro de Marcas Renombradas Españolas.

EGA Master has been selected to become a full member of the Leading Brands of Spain Forum which brings together the 100 top Spanish brands.

La marque EGA Master a été élue comme une des 100 marques espagnoles les plus remarquées et valorisées au niveau international et à ce titre inclue comme membre dans le prestigieux Forum Des Marques Renommées Espagnoles.

**EGA Master Ruban d'Honneur, European Business Awards**

EGA Master Ruban d'Honneur, European Business Awards

EGA Master Ruban d'Honneur, European Business Awards



EGA Master ha sido seleccionado como Ruban d'Honneur y finalista en los premios europeos European Business Awards. La elección confirma a EGA Master como una de las empresas más dinámicas de Europa, perfectamente alineada con los principios básicos de los European Business Awards: Éxito, Innovación y Ética.

EGA Master has been selected as Ruban d'Honneur recipients in the European Business Awards. The selection indicates that EGA Master is one of Europe's most dynamic and exciting businesses, actively demonstrating the core principles of the European Business Awards: Success, Innovation and Ethics.

EGA Master été sélectionnée comme Ruban d'Honneur et finaliste du prix européen European Business Awards. L'élection confirme qu'EGA Master est l'une des entreprises les plus dynamiques d'Europe, et parfaitement en accord avec les critères de l'European Business Awards: Réussite, Innovation et Éthique.

# RESPONSABILIDAD SOCIAL

## SOCIAL RESPONSIBILITY

## RESPONSABILITÉ SOCIALE

### El compromiso de EGA Master con la responsabilidad social

En EGA Master estamos convencidos de nuestra responsabilidad con la sociedad global a la que pertenecemos. Vivimos en un mundo con el que interactuamos, y por tanto nos debemos también a ella. Nos volcamos con aquellos valores sociales que nos identifican como organización, y actuamos siempre en consecuencia:

- Favoreciendo a los necesitados con campañas de donación de herramienta y equipos para proyectos en países en desarrollo, con los desplazados en Sáhara, en Costa de Marfil, construcción de colegios en México o Guinea Ecuatorial, entre otros.
- Integrando a los jóvenes en el mundo laboral (Primer Premio Novia Salcedo).
- Garantizando la Igualdad de Oportunidades en Género (Primer Premio Argilan).
- Patrocinando proyectos deportivos que impulsan y promueven los valores que nos caracterizan.
- Formando en Masters y Universidades a los profesionales del futuro, y ofreciendo más de 20 jornadas de puertas abiertas al año a diferentes centros de formación.

Estamos orgullosos de ello y plenamente convencidos de seguir mejorando el mundo desde EGA Master.

EGA Master, por un mundo mejor.

#### Patrocinios deportivos Sport sponsorships



Donaciones de herramientas  
Donations of tools



EGA Master en la Universidad  
EGA Master in the University

### EGA Master's commitment to social responsibility

*In EGA Master we are convinced about our responsibility to the global society of which we form part of. We live in a world where we interact, and thus we owe our existence to it. We are firmly committed to the social values that form the soul of our company and try to act in accordance to them by:*

- *Donations of tool lots to Non- Government Organizations (NGOs) that act in the developing world or in other areas with special needs, such as the refugees of Western Sahara, the internally displaced people of Ivory Coast (where training schools have been created) or the building of schools in Mexico and Equatorial Guinea.*
- *Integrating young people into the business world, by offering paid internships that ease the entrance into the corporate life (Novia Salcedo Foundation Award).*
- *Guaranteeing Equal Opportunities and banning discrimination on the basis of gender, race, religion, nationality or sexual orientation (First Argilan Award).*
- *Sponsoring sports events that promote our values.*
- *Lecturing free of charge a Bachelors, Masters and Post-graduate courses.*
- *Organizing open-door days for students, academics and business people.*

*We are proud of all these activities that help to contribute in our own modest way to a better world.*

#### Cálculo y Reducción de la Huella de Carbono Carbon Footprint Calculation and Reduction



### L'engagement d'EGA Master avec la responsabilité sociale

Chez EGA Master, nous sommes convaincus de notre responsabilité envers la société globale à laquelle nous appartenons. Nous vivons dans un monde avec lequel nous interagissons, et lui sommes donc redevables. Nous nous consacrons corps et âme à des valeurs sociales qui nous identifient comme une organisation, et nous agissons en conséquence :

- En favorisant les nécessiteux grâce à des campagnes de dons d'outils et équipements pour des projets pour les déplacés du Sahara ou de la Côte d'Ivoire, la construction de collèges au Mexique ou en Guinée Equatoriale, entre autres...
- En intégrant les jeunes sur le marché du travail (Premier Prix Novia Salcedo).
- En garantissant l'Égalité des Opportunités hommes/femmes ((Premier Prix Argilan).
- En sponsorisant des projets sportifs qui stimulent les valeurs qui nous caractérisent.
- En formant dans des Masters et des Universités les professionnels du futur, et en offrant plus de 20 journées portes ouvertes par an dans différents centres de formation.

Nous sommes fiers de tout cela, et pleinement convaincus de continuer à améliorer le monde depuis EGA Master.

EGA Master, pour un monde meilleur.

#### Sistema de Gestión Compliance Antisoborno Anti-bribery Compliance Management System





Patrocinador de la Euroliga de Baloncesto

Sponsor of Euroleague Basketball

Sponsor de l'Euroligue de Basket



## Algunos de nuestros logros más recientes

- Primera empresa del sector en Certificarse con un Sistema de Gestión Compliance Antisoborno basado en ISO 37001. Esta Certificación convierte a **EGA Master** en una empresa tractora a nivel internacional por sus buenas prácticas y transparencia en los negocios.
- Primera empresa del sector en calcular su huella de carbono, registrarla y obtener el Sello de Calculo, Reduzco del Ministerio Transición Ecológica.
- **EGA Master** seleccionada en 2019 y 2021 por la Comunidad #PorElClima para ser una de las 101 iniciativas empresariales, como ejemplo de lucha contra el cambio climático.
- Contratación de energía verde Cero Emisiones con las Garantías de Origen (GdO) que emite la Comisión Nacional de los Mercados y la Competencia (CNMC).
- **EGA Master** pasa a formar parte de la prestigiosa Asociación del Hidrógeno (AeH2) fruto de su compromiso con el desarrollo de soluciones de tecnología eficiente, para reducir el impacto ambiental.
- **EGA Master**, seleccionada por un comité de expertos formado por miembros de Fundación Biodiversidad del Ministerio para la Transición Ecológica, Grupo Español para el Crecimiento Verde, Red Española del Pacto Mundial, Aclima, Forética y Club de Excelencia en Sostenibilidad como ejemplo empresarial por sus acciones contra el cambio climático.
- **EGA Master** obtiene en 2020 la certificación ISO 45001, la mayor certificación a nivel internacional en seguridad y salud en el trabajo.

## Some of our most recent achievements

- *The first company in the sector to be certified with an Anti-bribery Compliance Management System based on ISO 37001. This Certification makes EGA Master an international driving force for its good practices and transparency in business.*
- *First company in the sector to calculate its carbon footprint, register it and obtain the "Calculo + Reduzco" seal, a recognition given by the Ecological Transition Ministry for the efforts made by the Spanish companies to reduce their carbon footprint.*
- *EGA Master selected in 2019 and 2021 by the #PorElClima Community to be one of the 101 business initiatives, as an example of the fight against climate change.*
- *Contracting Zero Emissions green energy with the Guarantees of Origin (GoO) issued by the Spanish competition regulator (CNMC).*
- *EGA Master becomes part of the prestigious Spanish Hydrogen Association (AeH2) as a result of its commitment to developing efficient technology solutions to reduce environmental impact.*
- *EGA Master, selected by a committee of experts made up of members of the Biodiversity Foundation of the Spanish Ecological Transition Ministry, the Spanish Group for Green Growth, the Spanish Global Compact Network, Aclima, Forética and the Club of Excellence in Sustainability as a business example for its actions against climate change.*
- *EGA Master obtains in 2020 ISO 45001 certification, the highest international certification in occupational health and safety.*

## Quelques-unes de nos réussites les plus récentes

- Première entreprise du secteur à être certifiée avec un système de gestion de la conformité anti-corrupcion basé sur la norme ISO 37001. Cette certification fait d'**EGA Master** une entreprise leader au niveau international pour ses bonnes pratiques et sa transparence dans les affaires.
- Première entreprise du secteur à calculer son empreinte carbone, à l'enregistrer et à obtenir le sceau "Calculo+Reduzco" du ministère de la Transition écologique.
- **EGA Master** sélectionnée en 2019 et 2021 par la Communauté #PorElClima pour faire partie des 101 initiatives d'entreprises, comme exemple de lutte contre le changement climatique.
- Contrats d'énergie verte à émissions zéro avec les garanties d'origine (GoO) délivrées par la Commission Nationale des Marchés et de la Concurrence (CNMC).
- **EGA Master** devient membre de la prestigieuse Association de l'hydrogène (AeH2) en raison de son engagement dans le développement de solutions technologiques efficaces pour réduire l'impact environnemental.
- **EGA Master**, sélectionnée par un comité d'experts formé par des membres de la Fondation pour la Biodiversité du Ministère Espagnol de la Transition Écologique, Groupe Espagnol pour la Croissance Verte, Réseau Espagnol du Pacte Mondial, Aclima, Forética et Club d'excellence en Matière de durabilité comme exemple d'entreprise pour ses actions contre le changement climatique.
- **EGA Master** obtient en 2020 la certification ISO 45001, la plus haute certification internationale en matière de santé et de sécurité au travail.

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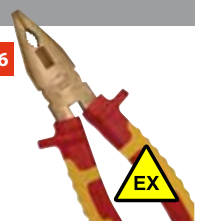
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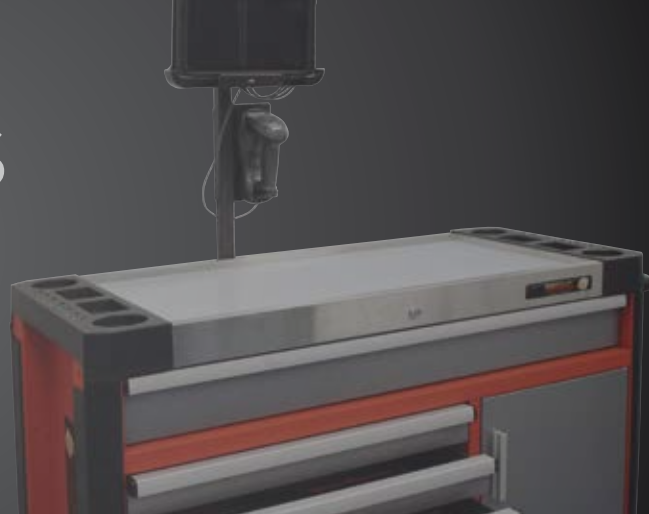
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# EGA Solutions

EGA Solutions, empresa del grupo EGA, ofrece servicios de ingeniería y soluciones para la Industria 4.0

EGA Solutions, a company of the EGA Group, offers engineering services and solutions for Industry 4.0

EGA Solutions, entreprise du groupe EGA, propose des services d'ingénierie et des solutions pour l'Industrie 4.0



## EGALOC

Solución de geolocalización de equipos y productos (tanto terminados como en curso) en plantas productivas, para la optimización de procesos productivos y seguridad.

Geolocation solution for locating equipment and products (both finished and in progress) in production plants, for the optimization of productive processes and safety.

Solution de géolocalisation des équipements et des produits (tant terminés comme en cours) dans les usines productives, pour l'optimisation des processus de production et la sécurité.



## EGAWARE

Sistema de gestión de herramientas y útiles que permite un mejor control de acceso a las herramientas, así como de la entrada y salida de las mismas durante los turnos de trabajo.

A management system for tools and supplies that allow better access control to tools, as well as the entry and exit of them during work shifts.

Système de gestion d'outils qui permet le meilleur contrôle d'accès aux mêmes, ainsi que leur entrée et sortie durant les tours de travail.



## Smart STATION

Soluciones a medida para implantar sistemas de Lean Manufacturing, 5S & Poka Yoke.

Customized solutions to implement Lean Manufacturing, 5S & Poka Yoke.

Des solutions sur mesure pour implanter des systèmes de Lean Manufacturing, 5S & Poka Yoke.

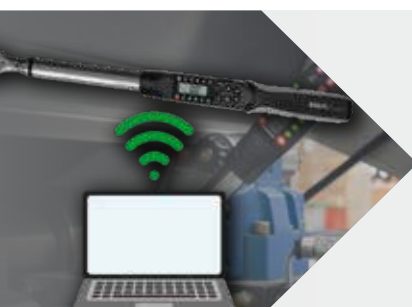


## EGA KANBAN

Basado en la tecnología EGAWARE, ofrecemos solución específica para almacenes Kanban.

Based on EGAWARE technology, we offer a specific solution for Kanban storage locations.

Basé sur la technologie EGAWARE, nous proposons une solution spécifique pour les magasins Kanban.



## EGATORK

Sistema wireless de gestión de pares de apriete, para aseguramiento de la calidad y optimización de la producción.

Wireless torque management system for quality assurance and production optimization.

Système de gestion du couple sans fil, pour l'assurance qualité et l'optimisation de la production.

1

**SISTEMA DE CONTROL DE HERRAMIENTAS**  
**TOOL CONTROL SYSTEM**  
**SYSTÈME DE CONTRÔLE D'OUTILS**  
**WERKZEUG-ORDUNGS-SYSTEM**  
**SISTEMA DI CONTROLLO PER UTENSILI**  
**SISTEMA DE CONTROLLO DE FERRAMENTAS**  
**СИСТЕМА КОНТРОЛЯ ИНСТРУМЕНТА**





Los sistemas de control de herramientas son muy importantes por dos razones fundamentales. La primera, evitar el gran despilfarro económico debido a descuidos en la gestión y utilización de herramientas, y, la segunda, seguridad frente a posibles FOD.

FOD es una abreviatura utilizada en aviación para referirse a los posibles "restos de objetos extraños" (Foreign Object Debris), también utilizada para describir los daños causados por dichos objetos o "daños causados por elementos extraños" (Foreign Object Damage). Estos daños pueden verse reflejados tanto en términos físicos como económicos y pueden afectar a la seguridad y al rendimiento de los aparatos.

Los "FOD de herramientas" son los riesgos ocasionados por dejar herramientas olvidadas o perdidas en el interior de un avión tras su fabricación o labores de mantenimiento. Estas herramientas u otros objetos pueden enredarse en los cables de control, obstaculizar partes móviles, afectar a las conexiones eléctricas..., pudiendo interferir en la seguridad de vuelo. En general, los equipos de mantenimiento de aeronaves disponen de estrictos sistemas de control de herramientas, incluyendo inventarios de las cajas de herramientas para cerciorarse de que ninguna herramienta se queda en el avión.

Por todo lo comentado anteriormente y con el fin de proporcionar un efectivo y seguro sistema de control de herramientas, EGA Master ofrece una amplia gama de productos y servicios.

*Tool control systems are very important due to 2 main reasons: avoiding economic waste or loss due to careless tool stock management; and for FOD safety.*

*Foreign Object Debris (FOD) is a substance, debris or article alien to a vehicle or system which could potentially cause damage. Foreign Object Damage (also abbreviated FOD) is any damage attributed to a foreign object (i.e. any object that is not part of the vehicle) that can be expressed in physical and economic terms and may degrade the product's required safety or performance. FOD is an abbreviation often used in aviation to describe both the damage done to aircraft by foreign objects, and the foreign objects themselves.*

*"Internal FOD" is used to refer to damage or hazards caused by foreign objects inside the aircraft. "Tool FOD" is a serious hazard caused by tools left inside the aircraft after manufacturing or servicing. Tools or other items can get tangled in control cables, jam moving parts, short out electrical connections, or otherwise interfere with safe flight. Aircraft maintenance teams usually have strict tool control procedures including toolbox inventories to make sure all tools have been removed from an aircraft before it is released for flight. Tools used during manufacturing are tagged with a serial number so if they are found they can be traced.*

*In order to provide an effective and safe tool control system, EGA Master offers a wide range of products and services.*

Los sistemas de control de herramientas son muy importantes por dos razones fundamentales. La primera, evitar el gran desperdicio económico debido a negligencias en la gestión y el uso de herramientas; la segunda, seguridad frente a FOD.

FOD es una abreviatura utilizada en aviación para hacer referencia a los posibles «restos de objetos extraños» (Foreign Object Debris), igualmente utilizado para describir los daños causados por estos objetos o «daños causados por elementos extraños» (Foreign Object Damage). Estos daños pueden ser reflejados tanto desde el punto de vista físico como desde el punto de vista económico y pueden afectar a la seguridad y el rendimiento de los aparatos.

Los "FOD de herramientas" son los riesgos que se corren cuando se olvidan o pierden herramientas dentro de un avión después de su fabricación o trabajos de mantenimiento. Estas herramientas u otros objetos pueden enredarse en los cables de control, hacer obstáculo a partes móviles, afectar a las conexiones eléctricas... que pueden intervenir en la calidad del vuelo. Generalmente, los equipos de mantenimiento de aeronaves disponen de un control de herramientas muy estricto, incluyendo también inventarios de las cajas de herramientas para asegurarse de que ninguna herramienta se queda en el avión.

EGA Master ofrece una gama ampliada de productos y servicios para los entornos anteriormente mencionados y para proporcionar un sistema de control de herramientas efectivo y seguro.



1

### BANDEJAS EVA BICOLOR

#### BI-COLOURED EVA FOAM TRAYS

#### PLATEAUX BICOULEURS EVA

Las herramientas se acomodan perfectamente a la bandeja y gracias a los dos colores utilizados permite visualizar de un solo golpe de vista la herramienta faltante en cada momento.

*All tools perfectly fit their position in the tray, while missing tools can be easily and quickly identified at first sight.*

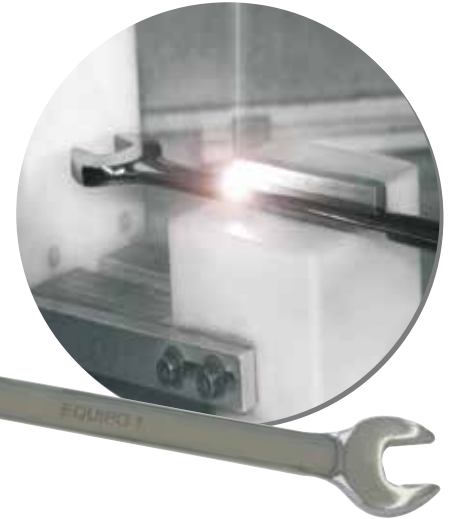
Los plateaux sont faits à la forme des outils et grâce à la couleur rouge du fond, nous pouvons visualiser d'un seul coup d'oeil l'outil manquant à chaque instant.

## 2 DISEÑOS DE BANDEJAS EVA PERSONALIZADOS CUSTOMIZED EVA TRAY DESIGN CONCEPTION DE TIROIR EVA PERSONNALISÉES

Si los sets estándar de **EGA Master** no encajan en sus requerimientos, indiquenos su selección de herramientas y nosotros le fabricaremos las bandejas EVA bicolor personalizadas a su medida.

*If the standard EGA Master sets do not match your tool set requirements, just inform us about your personal selection, and we will customize bi-colored foam trays manufacture for you.*

Si les kits standards d'**EGA Master** ne s'ajustent pas à vos besoins, indiquez nous votre choix d'outils et nous vous fabriquerons les plateaux EVA bicolor personnalisés sur mesure.



## 3 MARCAJE/GRABADO DE HERRAMIENTAS A LÁSER LASER ETCHING / MARKING SERVICE MARQUAGE / GRAVURE D'OUTILS AU LASER

**EGA Master** ofrece la posibilidad de marcar o grabar a láser las herramientas con diferentes logos o números, identificando perfectamente la empresa, división o equipo al que pertenecen, evitando los típicas "faltas" de herramientas.

*EGA Master can laser mark your tools with different logos or division numbers, perfectly identifying which specific tool belongs to which company, division or team, avoiding common mix-ups.*

**EGA Master** offre la possibilité de marquer ou graver au laser les outils avec différents logos ou numéros, en identifiant parfaitement l'entreprise, la division ou équipe à laquelle ils appartiennent, en évitant les «erreurs» typiques d'outils.

## 4 SOFTWARE DE CONTROL DE LA HERRAMIENTA TOOL TRACKING SOFTWARE LOGICIEL DE CONTRÔLE D'OUTIL

**EGA Master** también ofrece un sistema único de control de herramientas, capaz de gestionar e identificar las herramientas que se cogen o se dejan y en posesión de quien están, gracias a **EGAware**, el software de control de herramientas específicamente desarrollado para esta aplicación. Esta herramienta de gestión crea conciencia de control y cuidado de la herramienta entre los usuarios, reduciendo las desapariciones de herramientas hasta en un 90 %.

Si usted necesita cotización o más información en relación a alguno de los sistemas de control de herramientas de **EGA Master**, no dude en ponerse en contacto con nosotros.

*EGA Master also offers a unique stock control system, that will control which tool is taken from or returned to the stock, and who is in possession of each tool at every moment. This is done through the specifically developed "EGAware" tool control software. This management tool creates a tool control consciousness among users, reducing tool loss by over 90%.*

*If you need quotation or further information on any of above tool control systems, do not hesitate.*

**EGA Master** offre également un système unique de contrôle d'outils, capable de contrôler et d'identifier l'outil et le détenteur de ce dernier, grâce à **EGAware**, le logiciel de contrôle d'outils spécifiquement conçu pour cette application. Cet outil de gestion crée une conscience de contrôle et un soin de l'outil parmi les utilisateurs, réduisant les disparitions d'outils jusqu'à 90%.

Si vous avez besoin d'un devis ou plus d'information quant aux systèmes de contrôle d'outils d'**EGA Master**, veuillez ne pas hésiter à nous contacter.



5

**ARMARIOS PORTAHERRAMIENTAS TOOL CONTROL SYSTEM PARA CONTROL DE HERRAMIENTAS**  
**TOOL CONTROL SYSTEM ROLLER CABINETS TO CONTROL THE TOOLS**  
**SERVANTES PORTE-OUTILS TOOL CONTROL SYSTEM POUR LE CONTRÔLE DE L'OUTILLAGE**



Ante los riesgos y costes que la pérdida de herramientas genera, **EGA Master** ha desarrollado una gama de armarios portaherramientas con ruedas inteligentes para el control de herramientas. Estos le permitirán tener la herramienta localizada en todo momento, reduciendo los costes asociados a la pérdida de las mismas hasta en un 90 %. Además, le permitirá disponer de un sistema robusto para el FOD (riesgo por olvido de herramientas en lugares sensibles), como, por ejemplo, en el mantenimiento aeronáutico.

Simplemente seleccione el armario portaherramientas con ruedas TCS que desea, las herramientas que querría incluir en el mismo y **EGA Master** le configura tanto las bandejas como el software de manera personalizada. Los precios de los armarios portaherramientas con ruedas no incluyen las herramientas, que se facturarán por separado dependiendo de la composición solicitada.

Los armarios portaherramientas con ruedas presentados incluyen: armarios portaherramientas con ruedas con herramientas, bandejas bicolor personalizadas, software de control de herramientas, hardware de control de herramientas, carga de datos.

*In face of the risks and costs that the loss of tools generate, **EGA Master** has developed a range of smart roller cabinets to control the tools. These will allow to have the tool located at all times, reducing the costs associated with the loss thereof up to 90%. In addition it will provide a robust system for FOD (risk of forgetting tools in sensitive sites), such as in aeronautical maintenance.*

*Simply select the TCS roller cabinet you want, the tools that would be included in it, and **EGA Master** will configure both trays and software, in a customized way. The prices of the roller cabinets do not include the tools, which will be invoiced separately depending on the composition requested.*

*The roller cabinets presented include: roller cabinets with tools, bi-coloured trays customized, tool control software, tool control hardware, data upload.*






Face aux risques et aux coûts qui sont conséquence de la perte des outils, **EGA Master** a développé une gamme de servantes porte-outils à roues intelligentes pour le contrôle de l'outillage. Celles-ci vous permettront d'avoir l'outil localisé à tout instant, en réduisant les coûts associés à la perte des outils jusqu'à 90%. En plus, vous pourrez disposer d'un système robuste pour le FOD (risque causée par l'oubli des outils dans des lieux délicats), comme par exemple dans la maintenance aéronautique.

Simplement choisissez la servante porte-outils à roues TCS que vous désirez, les outils que vous voulez y inclure, et **EGA Master** vous configure les plateaux et le software, de manière personnalisée. Le prix des servantes porte-outils à roues n'incluent pas les outils, qui se factureront à part en fonction de la composition sollicitée.

Les servantes porte-outils à roues incluent : servantes porte-outils à roues et outils, plateaux bicolores personnalisés, software de contrôle d'outils, hardware de contrôle d'outils, chargement des données.







**ARMARIOS-CARROS DE HERRAMIENTAS TCS / TCS ROLLER CABINETS / SERVANTES A ROUES TCS / TCS WERKSTATTWAGEN / CASSETTIERE MOBILI TCS / CARRO DE FERRAMENTAS COM GAVETAS E SISTEMA DE CONTROLO TCS / ТЕЛЕЖКИ НА РОЛИКАХ TCS**

| COD.  |  |  |  |  |  |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 56995 | 730 x 475 x 1030 (51039)                                                          |                                                                                   |                                                                                   |                                                                                   |                                                                                     |
| 56996 | 700 x 480 x 850 (50977)                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                     |
| 56997 | 1100 x 480 x 1000 (50954)                                                         | 64849                                                                             | 00967                                                                             | 65864                                                                             | 65865                                                                               |
| 56998 | 1434 x 560 x 1075 (57060)                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                     |

12M

**ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

|       |                                                                                                 |
|-------|-------------------------------------------------------------------------------------------------|
| COD.  |                |
| 00958 | Cuna para tablet industrial / Tablet docking station / Support pour tablette industrielle       |
| COD.  |                |
| 64849 | Lector inalámbrico / Wireless lector / Lecteur sans fil                                         |
| COD.  |                |
| 65864 | Impresora portátil códigos barras / Portable bar code printer / Imprimante portable code barres |
| COD.  |              |
| 65865 | Etiqueta adhesiva / Adhesive label / Rouleau étiquette autocollant                              |



12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

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# PROYECTOS PRINCIPALES

## *MAIN PROJECTS*

# PRINCIPAUX PROJETS



**GLOBAL ATOMIC**  
**MINERÍA / MINING / MINIÈRE**  
NIGER



2

# TOOLKITS



**PERSONALICE EL COLOR**  
*CUSTOMIZE THE COLOUR*  
**PERSONNALISEZ LA COULEUR**



**Personalice el color de sus cajas, carros y mobiliario de taller seleccionando entre 4 colores disponibles, para:**

- Potenciar la imagen corporativa de su empresa.
- Diferenciar visualmente los equipamientos por aplicaciones o divisiones.

Todos ellos disponibles en rojo (RAL 2002\*), verde (RAL 6032\*), azul (RAL 5017\*) y amarillo (RAL 1003\*).

\* Colores aproximados

**Customize the colour of your tool boxes, trolleys and workshop equipment by selecting from the 4 available colours:**

- Strengthen the corporate image of your company.
- Visually distinguish your equipment by application or division.

All available in red (RAL 2002\*), green (RAL 6032\*), blue (RAL 5017\*) and yellow (RAL 1003\*).

\* Approximate colors

**Vous pouvez personnaliser la couleur de vos caisses, servantes et mobilier d'atelier en sélectionnant entre les 4 couleurs disponibles, afin de:**

- Distinguer visuellement les équipements par applications ou divisions.
- Améliorer l'image corporative de votre société.

Sont toutes disponibles en rouge (RAL 2002\*), vert (RAL 6032\*), bleu (RAL 5017\*) et jaune (RAL 1003\*).

\* Couleurs approximatives

**SISTEMAS ANTIVUELCO**  
*ANTI-OVERTURN SYSTEMS*  
**SYSTÈME ANTI-RENVERSEMENT**

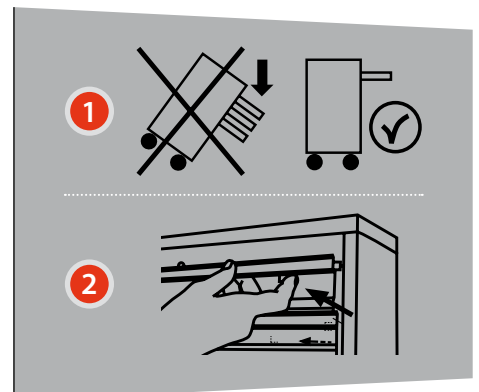


**EGA Master ha ampliado su gama de sistemas ANTIVUELCO dentro de su extensa variedad de armarios-carros de herramientas y cofres.**

- 1 El Sistema OODO ("Only One Drawer Open") le permite al usuario abrir un solo cajón cada vez. Las referencias que poseen este sistema son la 51025 y 51039.
- 2 Por otro lado, el resto de referencias llevan incorporado el sistema de seguridad de apertura lateral e individual de cajones ANTIVUELCO.

**EGA Master has widened its range of ANTI-OVERTURN systems within its vast variety of roller cabinets and tool chests.**

- 1 The OODO System ("Only One Drawer Open") allows the user to open only one drawer each time. The references which have this system are 51025 and 51039.
- 2 All other references are equipped with the ANTI-OVERTURN security system with individual and lateral open button in each tray.



**Dans sa grande variété de servantes à roues et coffres, EGA Master a élargi sa gamme de système ANTI-RENVERSEMENT.**

- 1 Le système OODO ("Only One Drawer Open") permet à l'utilisateur d'ouvrir un seul tiroir chaque fois. Les références qui possèdent ce système sont : 51025 et 51039.
- 2 D'autre part, le reste des références intègrent le système de sécurité d'ouverture latérale et individuelle des tiroirs ANTI-RENVERSEMENT.

# 02

## TOOLKITS



**JUEGOS UNIVERSALES / UNIVERSAL SETS / SETS UNIVERSELS / UNIVERSAL SETS / KIT UNIVERSELE / JOGOS UNIVERSAIS / УНИВЕРСАЛЬНЫЕ НАБОРЫ**

1382 PCS.

MM / INCH



| COD.  | PCS. |           | Medidas en / Sizes in / Mesures en |   |     |
|-------|------|-----------|------------------------------------|---|-----|
| 56175 |      |           |                                    |   | 330 |
| 56176 | 1382 | 51074     | mm/inch                            |   | 580 |
| 56177 |      | 51074 (2) |                                    | ● | 940 |

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 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
 Si vous ne trouvez pas l'article que vous desirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)



| PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Descripción / Description / Description                             |              |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------|
| 4    | 67202, 67203, 67204, 67205                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Palanca cabeza curva / Pry bar                                      | -            |
| 29   | 55266, 55267, 55268, 55269, 55270, 55271, 55272, 55273, 55274, 55275, 55276, 55277, 55278, 55279, 55280, 55281, 55282, 55283, 55284, 55285, 55286, 55287, 55288, 55289, 55290, 55291, 55292, 55293, 55294                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Blister de puntas de impacto / Blister of impact bits               | 5/16", 5 pcs |
| 31   | 66944                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Set de puntas Phillips®-Pozidriv® / Kit of bits Phillips®-Pozidriv® | 30 pcs       |
| 2    | 66261, 66262                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Adaptador portapuntas / Magnetic bit holder                         |              |
| 3    | 69570, 69572, 69574                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sargentos G / G Clamps                                              | -            |
| 7    | 62847, 62848, 62849, 62850, 62851, 62853, 62856                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Cinceles mecánicos / Flat cold chisel                               |              |
| 103  | 61322, 61311, 63974, 61312, 63975, 61313, 61314, 61315, 61316, 61317, 61318, 61319, 61320, 61321, 63977, 63978, 63979, 63980, 63981, 63982, 63983, 63984, 63985, 63986, 63987, 60420, 60421, 60422, 60423, 60424, 60425, 60426, 60427, 60428, 60429, 60430, 63989, 63990, 63991, 63992, 63993, 63994, 63995, 63996, 63997, 63998, 67640, 67641, 67642, 67643, 67644, 67645, 67646, 67647, 67648, 67649, 67650, 67651, 67652, 67660, 67661, 67662, 67663, 67664, 67665, 67666, 67667, 67668, 67669, 67670, 67674, 67675, 67676, 67677, 67678, 67679, 67680, 67681, 67682, 67683, 67684, 67689, 67690, 67691, 67692, 67693, 67694, 67695, 67696, 67697, 67698, 67699, 56015, 56017, 56018, 56019, 56020, 56021, 56023, 56024, 56025, 56026, 56027 | Llaves de vaso / Socket wrenches                                    |              |
| 38   | 66733, 66734, 66735, 66736, 66737, 66738, 66739, 66740, 66741, 66742, 66744, 66745, 66746, 66747, 66748, 66749, 66750, 66751, 66752, 66753, 66754, 66755, 66756, 55697, 55698, 55699, 55700, 55670, 55671, 55672, 55673, 55674, 55675, 55676, 55677, 55678, 55679, 66743                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Puntas atornilladoras con vaso / Socket bits                        | 1/4"         |
|      | 65880                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Adaptador para llaves de vaso / Adapter for socket wrenches         |              |
|      | 66732                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Destornillador portavasos / Socket holder                           |              |
| 1    | 62603                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Llave de carraca reversible / Reversible ratchet handle             |              |
|      | 61438                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Mango corredizo / Sliding -T- handle                                |              |
|      | 61435                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Articulación universal / Universal joint                            |              |
| 4    | 61442, 61454, 61443, 61444                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Alargadera / Extension                                              | -            |
| 1    | 61445                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Alargadera flexible / Flexible handle                               | 1/4"         |
|      | 65874                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Mango flexible / Flexible handle                                    |              |
| 56   | 67541, 67542, 67543, 67544, 67545, 67546, 67547, 67548, 67549, 67550, 67551, 67552, 67553, 67554, 67555, 67556, 67557, 67558, 67559, 67620, 67621, 67622, 67623, 67624, 67625, 67626, 67627, 67725, 67726, 67727, 67728, 67729, 67730, 67731, 67732, 67733, 67734, 67735, 67736, 67737, 67738, 67739, 67740, 67750, 67751, 67752, 67753, 67754, 67755, 67756, 67757, 67758, 67759, 67760, 67761, 67762                                                                                                                                                                                                                                                                                                                                          | Llaves de vaso / Socket wrenches                                    |              |
| 48   | 66760, 66761, 66762, 66763, 66764, 66765, 66766, 66767, 66768, 66769, 66770, 66771, 66772, 66773, 66774, 66775, 66776, 66777, 66778, 66779, 66780, 66781, 66782, 66783, 66784, 66785, 66786, 66787, 66788, 66789, 66790, 66791, 66792, 66793, 66794, 66795, 66796, 55701, 55702, 55703, 55680, 55681, 55682, 55683, 55684, 55685, 55686, 55687                                                                                                                                                                                                                                                                                                                                                                                                  | Puntas atornilladoras con vaso / Socket bits                        |              |
| 2    | 65884, 65881                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Adaptador para llaves de vaso / Adapter for socket wrenches         |              |
|      | 61460, 61461                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Llave de vaso para bujías / Spark plug socket                       | 3/8"         |
| 22   | 55710, 55711, 55712, 55713, 55714, 55715, 55716, 55717, 55718, 55719, 55720, 55721, 55724, 55725, 55726, 55727, 55728, 55729, 55730, 55731, 55732, 55733                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Llaves fijas Crow Foot / Open end Crow Foot wrenches                |              |
| 20   | 55736, 55737, 55738, 55739, 55740, 55741, 55742, 55743, 55744, 55745, 55746, 55750, 55751, 55752, 55753, 55754, 55755, 55756, 55757, 55758                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Llaves fijas hexagonales Crow Foot / Hexagonal Crow Foot wrenches   |              |
|      | 61429                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Llave de carraca reversible / Reversible ratchet handle             |              |
| 1    | 61439                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Mango corredizo en T / Sliding T handle                             |              |
|      | 61436                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Articulación universal / Universal joint                            |              |
| 2    | 61447, 61450                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Alargadera / Extension                                              |              |
| 1    | 61409                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Berbiquí / Speeder handle                                           |              |
|      | 65875                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Mango articulado / Hinged handle                                    |              |
| 94   | 61800, 61801, 61802, 61803, 61804, 61805, 61806, 61807, 61808, 61809, 61810, 61811, 61812, 61813, 61814, 61815, 61816, 61817, 61818, 61819, 61820, 61821, 61822, 61823, 60460, 60461, 60462, 60463, 60464, 60465, 60466, 60459, 60467, 60468, 60469, 60470, 60471, 60472, 60473, 60474, 60475, 60476, 60477, 60478, 67780, 67781, 67782, 67783, 67784, 67785, 67786, 67787, 67788, 67789, 67791, 67792, 67793, 67794, 67795, 67796, 67797, 67798, 67799, 67800, 67805, 67806, 67807, 67808, 67809, 67810, 67811, 67812, 67813, 67814, 67815, 67816, 67817, 67818, 55796, 55797, 55798, 55799, 55800, 55801, 55802, 55803, 55804, 55805, 55806, 55807, 55808, 55809, 55810                                                                       | Llaves de vaso / Socket wrenches                                    |              |
| 62   | 66801, 66802, 66803, 66804, 66805, 66806, 66807, 66808, 66809, 66810, 66811, 66812, 66813, 66814, 66815, 66816, 66817, 66818, 66819, 66820, 66821, 66822, 66823, 66824, 66825, 66826, 66827, 66828, 66829, 66830, 66831, 66832, 66833, 66834, 66835, 66836, 66837, 66838, 66839, 66840, 66841, 55705, 55706, 55707, 55688, 55689, 55690, 55691, 55692, 55693, 55695, 55696, 66842, 65985, 65986, 65987, 65988, 65989, 65990, 65991, 65992, 65993                                                                                                                                                                                                                                                                                                | Puntas atornilladoras con vaso / Socket bits                        | 1/2"         |
| 2    | 65885, 65882                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Adaptador para llaves de vaso / Adapter for socket wrenches         |              |
|      | 61462, 61463                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Llave de vaso para bujías / Spark plug socket                       |              |
| 3    | 61441, 61483, 61484                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Mango articulado / Hinged handle                                    |              |
|      | 61453, 61455, 61458                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Alargadera / Extension                                              |              |
| 1    | 61434                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Berbiquí / Speeder handle                                           |              |
|      | 62606                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Llave de carraca reversible / Reversible ratchet handle             |              |

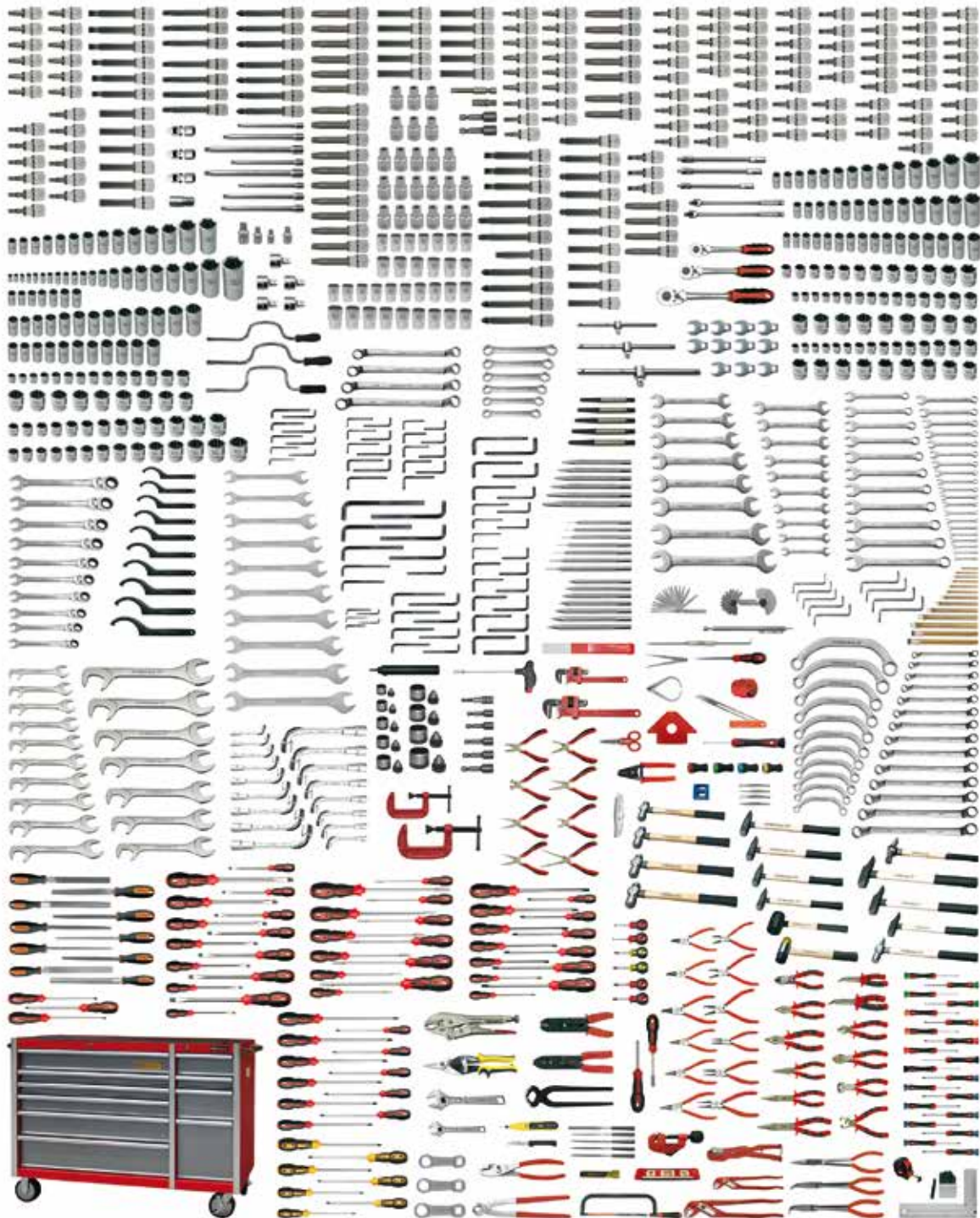
| PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Descripción / Description / Description                                            |                 |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------|
| 1    | 61440                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Mango corredizo en T / Sliding T handle                                            |                 |
|      | 61437                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Articulación universal / Universal joint                                           |                 |
| 63   | 60658, 60603, 60604, 60605, 60606, 60607, 60608, 60609, 60610, 60611, 60612, 60639, 60613, 60614, 60615, 60616, 60617, 60618, 60619, 65213, 65214, 65215, 65216, 65217, 65218, 65219, 65220, 65221, 65222, 65223, 65224, 65225, 65226, 60660, 60661, 60662, 60663, 60664, 60665, 60666, 60667, 60668, 60669, 60670, 60671, 60672, 60673, 60674, 60675, 60676, 56350, 56351, 56352, 56353, 56354, 56355, 56356, 56357, 56358, 56359, 56360, 56361, 56362                                                                                                                        | Claves de vaso de impacto / Impact socket wrenches                                 | 1/2"            |
| 18   | 65936, 65937, 65938, 65939, 65940, 65941, 65942, 65943, 65944, 65945, 65946, 65947, 65948, 65949, 65950, 65951, 65952, 65953                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Puntas atornilladoras de impacto con vaso / Impact socket bit                      |                 |
| 2    | 60698, 60699                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Adaptador (vasos de impacto) / Adapter (impact socket wrench)                      |                 |
| 1    | 60705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Articulación universal (vasos de impacto) / Universal joint (impact socket wrench) |                 |
|      | 60711                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Alargadera (vasos de impacto) / Extension (impact socket wrench)                   |                 |
| 79   | 60501, 60502, 60503, 60504, 60505, 60506, 60507, 60508, 60509, 60510, 60511, 60512, 60513, 60514, 60515, 60516, 60517, 60518, 60519, 60520, 60521, 60522, 60523, 60524, 67565, 67566, 67567, 67568, 67569, 67570, 67571, 67572, 67573, 67574, 67575, 67576, 67577, 67578, 67579, 67580, 67581, 67582, 67583, 67584, 67585, 67586, 67587, 67588, 67595, 67596, 67597, 67598, 67599, 67601, 67602, 67603, 67604, 67605, 67607, 67608, 67610, 67612, 60526, 60527, 60528, 60529, 60530, 60531, 60500, 60532, 60533, 60534, 60535, 60536, 60537, 60538, 60539, 60540, 60541        | Claves de vaso / Socket wrenches                                                   |                 |
| 2    | 65883, 65886                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Adaptador para llaves de vaso / Adapter for socket wrenches                        |                 |
| 1    | 61859                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Llave de carraca reversible / Reversible ratchet handle                            |                 |
| 2    | 61473, 61456                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Mango articulado / Hinged handle                                                   |                 |
| 1    | 61864                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Mango corredizo en T / Sliding T handle                                            |                 |
|      | 61860                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Articulación universal / Universal joint                                           | 3/4"            |
| 2    | 61865, 61866                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Alargadera / Extension                                                             |                 |
| 80   | 63879, 60620, 60621, 60622, 60623, 60624, 60625, 60626, 60627, 60628, 60629, 60630, 60631, 60632, 60633, 60634, 60635, 60636, 60637, 63880, 60638, 63881, 65227, 65228, 65229, 65230, 65231, 65232, 65233, 65234, 65235, 65236, 65237, 65238, 65239, 68689, 65240, 65241, 65242, 65243, 65244, 68688, 60679, 60680, 60681, 60682, 60683, 60684, 60685, 60686, 60687, 60688, 60689, 60690, 60691, 63895, 63896, 63897, 65245, 65246, 65247, 65248, 65249, 65250, 65251, 65252, 56363, 56364, 56365, 56366, 56367, 56368, 56369, 56370, 56371, 56372, 56373, 56374, 56375, 56376 | Claves de vaso de impacto / Impact socket wrenches                                 |                 |
| 2    | 60700, 60701                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Adaptador (vasos de impacto) / Adapter (impact socket wrench)                      |                 |
| 1    | 60706                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Articulación universal (vasos de impacto) / Universal joint (impact socket wrench) |                 |
|      | 60714                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Alargadera (vasos de impacto) / Extension (impact socket wrench)                   |                 |
| 8    | 61593                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Set de extractores de tornillos / Set of screw extractors                          | 8 pcs           |
| 2    | 65555, 65570                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Galgas de espesores / Feeler gauge                                                 |                 |
| 6    | 63498, 63534, 63570, 63606, 63642, 63678                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Limas / Files                                                                      |                 |
| 1    | 58641                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Linterna táctil / Tactile flashlight                                               |                 |
| 2    | 63742, 63299                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Arcos de sierra / Hack saws                                                        |                 |
| 7    | 69612, 69614, 69617, 69750, 69748, 55327, 69752                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Martillos / Hammers                                                                |                 |
| 5    | 61110, 61111, 61112, 61113, 61114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Llave ajustable / Adjustable wrench                                                |                 |
| 4    | 60795, 60796, 60797, 60798                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Llave media luna / Half moon spanner                                               |                 |
| 10   | 60785, 60786, 60787, 60788, 60789, 60790, 60791, 60792, 60793, 60794                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Llave para racores / Flare nut                                                     |                 |
| 71   | 63965, 63966, 67880, 63967, 67881, 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736, 61737, 61738, 61739, 61740, 61741, 61742, 61743, 61744, 61745, 61746, 61747, 61748, 61749, 61750, 60951, 60952, 60953, 60954, 60955, 60956, 67882, 67883, 67953, 67954, 61653, 60340, 60341, 67878, 60342, 60343, 60344, 60345, 60346, 60347, 60348, 60349, 60350, 60351, 60352, 60353, 60354, 60355, 60356, 60357, 60358, 60957, 60958, 60961, 60959, 60962, 60897, 60898, 60899, 60960                                                                | Claves combinadas / Combination wrenches                                           | mm/inch         |
| 26   | 67963, 67967, 61601, 61602, 61603, 61604, 61605, 61606, 61607, 61608, 61609, 61610, 61611, 61612, 61613, 60300, 60302, 60303, 60305, 67943, 60308, 60310, 60311, 60312, 60314, 67946                                                                                                                                                                                                                                                                                                                                                                                           | Claves fijas / Open-end wrenches                                                   |                 |
| 32   | 61774, 61775, 61776, 61777, 61778, 61779, 61780, 61781, 61782, 61783, 61784, 61785, 61786, 61787, 67862, 67863, 61790, 60380, 60381, 60382, 60383, 60384, 60385, 60386, 60387, 60388, 60389, 60390, 60391, 60392, 60393, 60394                                                                                                                                                                                                                                                                                                                                                 | Claves acodadas / Double offset ring wrenches                                      |                 |
| 16   | 68283, 68284, 68285, 68286, 68287, 68288, 68289, 68290, 68291, 68292, 68293, 68295, 68296, 68297, 68298, 68299                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Claves de gancho / Adjustable hook wrenches                                        |                 |
| 11   | 65089, 65090, 65091, 65092, 65093, 65095, 65096, 65098, 65099, 65100, 65102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Llaves de carraca para racores / Ratcheting ring wrenches                          |                 |
| 9    | 61301, 61302, 61303, 61304, 61305, 61306, 61308, 61309, 61310                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Llaves vaso doble articulación / Double ended swivel wrenches                      |                 |
| 20   | 61495, 61496                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Juego de llaves Allen bola / Set of hexagonal key wrenches ball type               | 10 pcs, mm/inch |
| 9    | 56566                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Juego de llaves Tamper Torx / Set of Tamper Torx keys                              | 9 pcs           |
| 12   | 63280, 63281, 63282, 63283, 58097, 58098, 58099                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Llaves de carraca doble Mastergear / Mastergear double ratchet wrenches            |                 |
| 20   | 62710, 62711, 62712, 62713, 62714, 62715, 62716, 62717, 62718, 62719, 62720, 62721, 62722, 62723, 62724, 62725, 62726, 62727, 62728, 62729                                                                                                                                                                                                                                                                                                                                                                                                                                     | Claves combinadas Stubby Mastergear / Combination wrenches Stubby Mastergear       | mm/inch         |
| 2    | 63199, 63205                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Cortatubos para plástico / Plastic pipe cutter                                     |                 |
| 3    | 61015, 61017, 61018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Llave Heavy Duty / Heavy Duty pipe wrench                                          |                 |
| 2    | 61405, 61406                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Llave Mastergrip / Mastergrip wrench                                               |                 |

| PCS. | Composición / Composition / Composition                                                                                                                                                                   | Descripción / Description / Description                                                   |                |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------|
| 2    | 62965, 62968                                                                                                                                                                                              | Llaves dinamométricas / Torque wrenches                                                   | -              |
| 1    | 66873                                                                                                                                                                                                     | Destornillador dinamométrico / Torque screwdriver                                         | 1/4"           |
| 19   | 66400, 66401, 66403, 66405, 66407, 66448, 66408, 66409, 66449, 66410, 55330, 55331, 55333, 55335, 55337, 55338, 55339, 55340, 55341                                                                       | Destornilladores mecánicos / Slotted screwdrivers                                         | mm/inch        |
| 14   | 76620, 76621, 76622, 76624, 76625, 76626, 76627, 75063, 75064, 75065, 75067, 75068, 75069, 75081                                                                                                          | Destornilladores electricidad / Electrician screwdrivers                                  | 1000V, mm/inch |
| 5    | 66438, 66437, 66443, 66441, 66442                                                                                                                                                                         | Destornilladores Phillips® / Phillips® screwdrivers                                       |                |
|      | 66456, 66472, 66473, 66459, 66460                                                                                                                                                                         | Destornilladores Pozidriv® / Pozidriv® screwdrivers                                       |                |
| 3    | 63954, 63955, 63956                                                                                                                                                                                       | Alicates de bocas semi-redondas y extralargos / Extra-long reach halfround nose pliers    | -              |
| 9    | 62241, 62242, 62243, 62244, 62245, 62246, 62247, 62248, 62249                                                                                                                                             | Alicates mini / Mini Pliers                                                               |                |
| 12   | 66488, 66489, 66490, 66491, 66492, 66493, 66494, 66495, 66496, 66497, 66498, 66499                                                                                                                        | Destornilladores Tamper Torx / Tamper Torx screwdrivers                                   |                |
| 11   | 66501, 66502, 66503, 66504, 66505, 66506, 66507, 55364, 55365, 55368, 55369                                                                                                                               | Destornilladores punta esfera / Ball point screwdrivers                                   | mm/inch        |
| 3    | 66530, 66531, 66532                                                                                                                                                                                       | Destornilladores Robertson / Robertson screwdrivers                                       |                |
| 6    | 66525, 55371, 67192, 66526, 67193, 66527                                                                                                                                                                  | Destornilladores carroceros / Stubby screwdrivers                                         |                |
| 17   | 62331, 62332, 62333, 62337, 62338, 62339, 62340, 62341, 62342, 62343, 62540, 62344, 62370, 62345, 62346, 62348, 62349                                                                                     | Alicates / Pliers                                                                         |                |
| 20   | 62214, 62215, 62183, 62216, 62217, 62218, 62219, 62182, 62220, 62221, 62222, 62223, 62181, 62224, 62225, 62226, 62227, 62180, 62228, 62229                                                                | Alicates Circlips / Circlips pliers                                                       |                |
| 3    | 63950, 63951, 63952                                                                                                                                                                                       | Alicates de corte al ras / Flush cutting pliers                                           |                |
| 1    | 61035                                                                                                                                                                                                     | Llave de cadena reversible / Reversible chain pipe wrench                                 |                |
|      | 63371                                                                                                                                                                                                     | Escariador manual / Manual reamer                                                         |                |
| 2    | 68001, 68003                                                                                                                                                                                              | Abocinador puente / Flaring tool                                                          |                |
| 1    | 69501                                                                                                                                                                                                     | Cortador de metal / Metallic cutter                                                       |                |
| 2    | 65166, 65364                                                                                                                                                                                              | Flexómetros / Measuring tapes                                                             |                |
|      | 65480                                                                                                                                                                                                     | Calibre pie de rey / Vernier Caliper                                                      | -              |
| 1    | 65588                                                                                                                                                                                                     | Recogedor articulado telescópico / Telescopic joint pick up                               |                |
|      | 55836                                                                                                                                                                                                     | Llave de impacto neumática / Pneumatic impact wrench                                      |                |
|      | 63915                                                                                                                                                                                                     | Cortabridas / Plastic tie cutter                                                          |                |
| 14   | 63394, 63395, 63396, 63397, 63398, 63399, 63400, 63415, 63416, 63417, 63418, 63419, 63420, 63421,                                                                                                         | Botadores / Punches                                                                       |                |
| 6    | 63435, 63436, 63437, 63438, 63439, 63440,                                                                                                                                                                 | Granetes / Center punches                                                                 |                |
|      | 62097, 62174                                                                                                                                                                                              | Tenazas Grip / Grip pincers                                                               |                |
| 2    | 62624, 62625                                                                                                                                                                                              | Alicate trenzador de alambre / Wire twist plier                                           |                |
| 1    | 62128                                                                                                                                                                                                     | Tenaza canal / Box joint plier                                                            |                |
| 29   | 61870, 61871, 61872, 61873, 61874, 61875, 61876, 61877, 61878, 61879, 61880, 61881, 61882, 61883, 61884, 61885, 61886, 61887, 61888, 61889, 61890, 61891, 61892, 61893, 61894, 61895, 61768, 61772, 61770 | Llaves de pipa / Angled sockets                                                           |                |
| 26   | 61530, 61531, 61532, 61533, 61534, 61535, 61536, 61537, 61538, 61539, 61540, 61541, 61542, 61543, 61544, 61545, 61546, 61547, 61548, 61549, 61550, 61551, 61552, 61553, 61554, 61555                      | Llave combinada articulada Mastergear / Flexible combination wrench Mastergear            | mm/inch        |
| 3    | 62090, 62091, 62092                                                                                                                                                                                       | Alicate tipo Ford / Slip joint plier                                                      |                |
|      | 62123, 62124, 62125                                                                                                                                                                                       | Tenaza rusa / Tower pincer                                                                |                |
| 1    | 66073                                                                                                                                                                                                     | Buscapolos / Voltage tester                                                               |                |
| 3    | 62169, 62170, 62171                                                                                                                                                                                       | Tijeras articuladas / Aviation tin snips                                                  | -              |
| 10   | 64670                                                                                                                                                                                                     | Juego de sacabocados / Hollow punch set                                                   |                |
| 1    | 65158                                                                                                                                                                                                     | Nivel torpedo / Torpedo spirit level                                                      |                |
| 18   | 56200, 56201, 56202, 56203, 56204, 56205, 56206, 56207, 56208, 56209, 56210, 56211, 56212, 56213, 56214, 56215, 56216, 56217,                                                                             | Llaves fijas extrafinas / Slim open end wrenches                                          | mm/inch        |
| 27   | 66846, 66847, 66848, 66849, 55449, 55450, 55451, 55452, 66850, 66851, 66852, 66853, 66854, 66866, 66867, 66868, 66869, 66870, 66871, 66872, 57684, 57685, 66864, 66865, 55458, 55453, 55457               | Destornilladores Microtronic / Screwdrivers Microtronic                                   |                |
| 5    | 56230, 56231, 56232, 56233, 56234                                                                                                                                                                         | Llaves estrella dos bocas extrafina compensada a 15° / Slim double ring wrenches 15° bent |                |
|      | 56235, 56236, 56237, 56238, 56239                                                                                                                                                                         | Llaves estrella plana de dos bocas extrafinas / Slim flat double ring wrenches            |                |
| 1    | 87628                                                                                                                                                                                                     | Limpiador multiusos / Multi-purpose cleaner                                               | 250 ml         |
|      | 63988                                                                                                                                                                                                     | Cinta de señalización de seguridad / Safety hazard signs tape                             | -              |



■ ≈ 1000 PCS.

■ MM



| COD.  | PCS. |           | Medidas en / Sizes in / Mesures en |     |
|-------|------|-----------|------------------------------------|-----|
| 51671 |      |           |                                    | 130 |
| 51672 | 1006 | 57060     | mm                                 | 320 |
| 51673 |      | 50954 (3) |                                    | 480 |

| PCS. | Composición / Composition / Composition                                                                                                    | Descripción / Description / Description                     |      |
|------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------|
| 1    | 65880                                                                                                                                      |                                                             | 1/4" |
| 2    | 65881, 65884                                                                                                                               | Adaptador para llaves de vaso / Adapter for socket wrenches | 3/8" |
|      | 65882, 65885                                                                                                                               |                                                             | 1/2" |
|      | 62772                                                                                                                                      |                                                             | 1/4" |
| 1    | 62773                                                                                                                                      | Adaptadores cuadrado - hexagono / Square - hex adapters     | 3/8" |
|      | 62774                                                                                                                                      |                                                             | 1/2" |
| 3    | 57315, 57316, 57317                                                                                                                        | Adaptadores de par / Torque adapters                        | 3/8" |
|      | 62775                                                                                                                                      | Adaptadores portapuntas / Bit holders                       |      |
| 1    | 66264                                                                                                                                      | Adaptadores portapuntas magnéticos / Magnetic bit holders   | 1/4" |
|      | 65603                                                                                                                                      | Agujas de trazar / Scribes                                  | -    |
|      | 61442, 61443, 61444, 61445                                                                                                                 |                                                             | 1/4" |
| 4    | 61447, 61450, 62118, 62732                                                                                                                 | Alargaderas / Extensions                                    | 3/8" |
|      | 61453, 61455, 61458, 62119                                                                                                                 |                                                             | 1/2" |
| 11   | 62331, 62333, 62337, 62339, 62340, 62341, 62342, 62343, 62344, 62346, 62349                                                                | Alicates / Pliers                                           |      |
| 15   | 62180, 62181, 62182, 62183, 62215, 62216, 62219, 62220, 62223, 62224, 62227, 62228, 63954, 63955, 63956                                    | Alicates Circlips / Circlip pliers                          |      |
| 2    | 62493, 62494                                                                                                                               | Alicates de terminales / Crimping pliers                    | -    |
| 9    | 62241, 62242, 62243, 62244, 62245, 62246, 62247, 62248, 62249                                                                              | Alicates mini / Mini Pliers                                 |      |
|      | 62090                                                                                                                                      | Alicates tipo Ford / Slip joint pliers                      |      |
|      | 63745                                                                                                                                      | Arcos de sierra / Hack saws                                 |      |
|      | 61435                                                                                                                                      |                                                             | 1/4" |
| 1    | 61436                                                                                                                                      | Articulación universal / Universal joint                    | 3/8" |
|      | 61437                                                                                                                                      |                                                             | 1/2" |
|      | 61408                                                                                                                                      |                                                             | 1/4" |
|      | 61409                                                                                                                                      | Berbiquí / Speeder Handle                                   | 3/8" |
|      | 61434                                                                                                                                      |                                                             | 1/2" |
| 14   | 63387, 63388, 63389, 63390, 63391, 63392, 63393, 63408, 63409, 63410, 63411, 63412, 63413, 63414                                           | Botadores / Punches                                         |      |
|      | 62876                                                                                                                                      | Buriles planos / Crosscut chisels                           |      |
| 1    | 66074                                                                                                                                      | Buscapolos / Voltage tester                                 |      |
| 13   | 62847, 62848, 62849, 62850, 62851, 62853, 62854, 62855, 62856, 62857, 63320, 63321, 63472                                                  | Cinceles / Chisels                                          | -    |
| 2    | 65622, 65627                                                                                                                               | Compases / Calipers                                         |      |
| 1    | 63915                                                                                                                                      | Cortabridas / Plastic tie cutters                           |      |
|      | 69501                                                                                                                                      | Cortadores / Cutters                                        |      |
| 2    | 63170, 63199                                                                                                                               | Cortatubos / Tube cutters                                   |      |
| 1    | 66732                                                                                                                                      | Destornillador portavasos / Socket holder                   | 1/4" |
| 9    | 57675, 57676, 57677, 57678, 57679, 57680, 57681, 57682, 57683                                                                              | Destornilladores acodados / Offset screwdrivers             |      |
| 4    | 66525, 66526, 66527, 66529                                                                                                                 | Destornilladores carroceros / Stubby screwdrivers           |      |
| 12   | 66509, 66510, 66511, 66512, 66513, 66514, 66515, 66516, 66517, 66518, 66519, 66520                                                         | Destornilladores de vaso / Socket screwdrivers              |      |
| 11   | 66411, 66412, 66420, 66421, 66422, 66423, 66424, 66425, 66426, 66427, 66428                                                                | Destornilladores electricista / Electrician screwdrivers    |      |
| 14   | 66399, 66400, 66401, 66402, 66403, 66404, 66405, 66406, 66407, 66408, 66409, 66410, 66448, 66449                                           | Destornilladores mecánicos / Slotted screwdrivers           |      |
| 20   | 57684, 66846, 66847, 66848, 66849, 66850, 66851, 66852, 66853, 66854, 57685, 66864, 66865, 66866, 66867, 66868, 66869, 66870, 66871, 66872 | Destornilladores Microtronic / Microtronic screwdrivers     |      |
| 8    | 66437, 66438, 66439, 66440, 66441, 66442, 66443, 67192                                                                                     | Destornilladores Phillips® / Phillips® screwdrivers         |      |
| 2    | 66249, 66731                                                                                                                               | Destornilladores portapuntas / Bitholder screwdrivers       |      |
| 8    | 66456, 66457, 66458, 66459, 66460, 66472, 66473, 67193                                                                                     | Destornilladores Pozidriv® / Pozidriv® screwdrivers         |      |
| 3    | 66530, 66531, 66532                                                                                                                        | Destornilladores Robertson / Screwdrivers Robertson         |      |
| 13   | 66487, 66488, 66489, 66490, 66491, 66492, 66493, 66494, 66495, 66496, 66497, 66498, 66499                                                  | Destornilladores Tamper Torx / Screwdrivers Tamper Torx     |      |
| 1    | 63085                                                                                                                                      | Escariadores / Reamers                                      | -    |
| 2    | 63701, 63709                                                                                                                               | Escofinas / Rasps                                           |      |
| 1    | 65766                                                                                                                                      | Escuadra magnética para soldadura / Magnetic welding square |      |
| 2    | 65768, 65813                                                                                                                               | Escuadras / Squares                                         |      |
| 5    | 61586, 61587, 61588, 61589, 61590                                                                                                          | Extractores de tornillos / Screw extractors                 |      |
| 1    | 65171                                                                                                                                      | Flexómetros / Measuring tapes                               |      |
| 2    | 65559, 65571                                                                                                                               | Galgas / Gauges                                             |      |
| 6    | 63429, 63430, 63431, 63432, 63433, 63434                                                                                                   | Granetes / Center punches                                   |      |
| 1    | 65852                                                                                                                                      | Juegos de golpe números / Punches numbers                   |      |
| 13   | 63504, 63540, 63576, 63612, 63648, 63672, 63684, 63692, 63714, 63715, 63717, 63718, 63719                                                  | Limas / Files / Limes                                       |      |
| 1    | 58641                                                                                                                                      | Linternas / Flashlights                                     |      |
| 18   | 61774, 61775, 61776, 61777, 61778, 61779, 61780, 61781, 61782, 61783, 61784, 61785, 61786, 61787, 67843, 67844, 67845, 67855               | Llaves acodadas / Double offset ring wrenches               |      |
| 2    | 61109, 61112                                                                                                                               | Llaves ajustables / Adjustable wrenches                     |      |

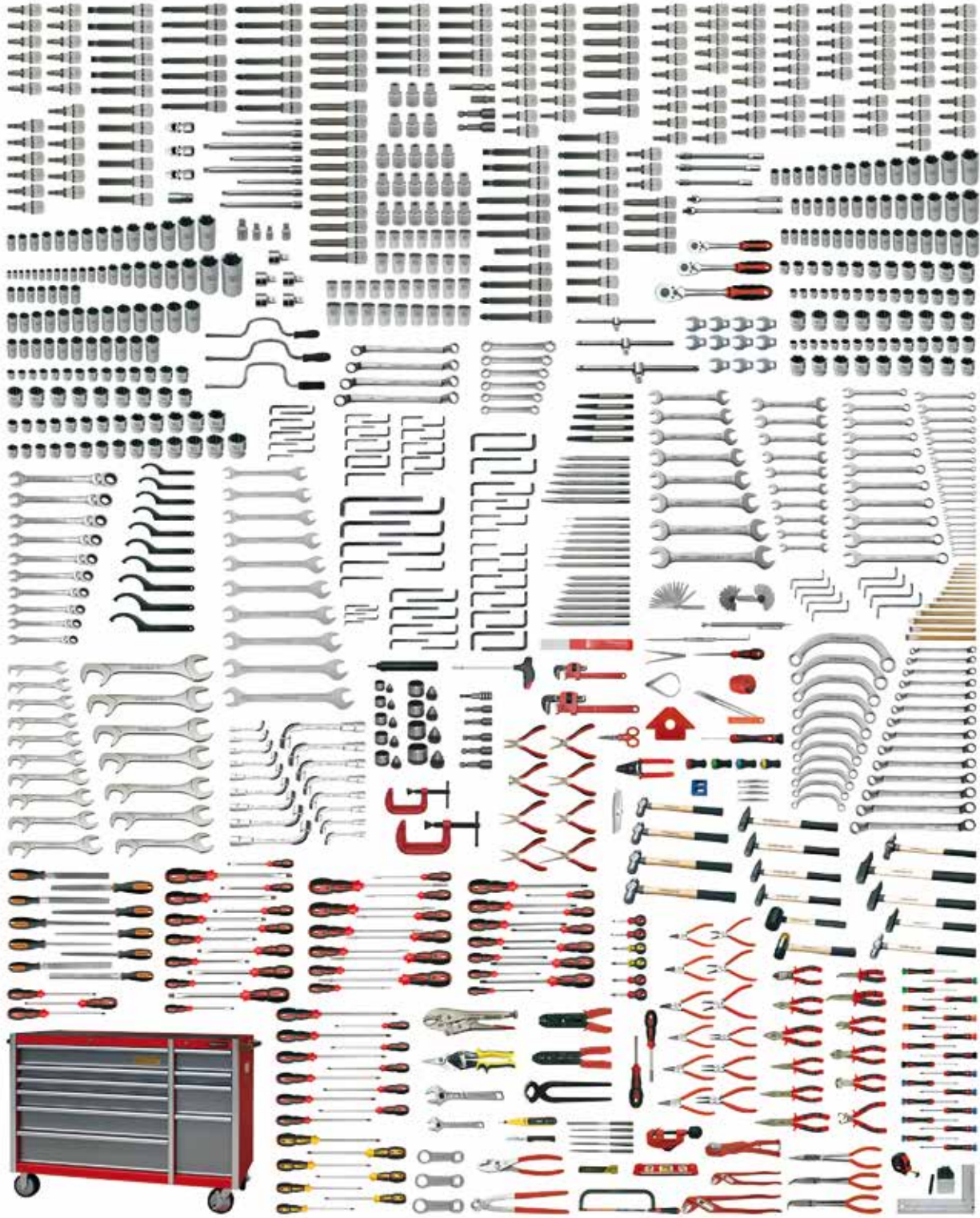
| PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Descripción / Description / Description                                           |                      |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------|
| 31   | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736, 61737, 61738, 61739, 61740, 61741, 61742, 61743, 61744, 61745, 61746, 61747, 61748, 61749, 61750, 63965, 63966, 63967, 67880, 67881                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Llaves combinadas / Combination wrenches                                          | -                    |
| 1    | 62603<br>62604<br>62606                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Llaves de carraca reversible / Reversible ratchet handles                         | 1/4"<br>3/8"<br>1/2" |
| 10   | 68283, 68284, 68285, 68286, 68287, 68288, 68289, 68290, 68291, 68292                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Llaves de gancho / Hook spanners                                                  | -                    |
| 17   | 61870, 61871, 61872, 61873, 61874, 61875, 61876, 61877, 61878, 61879, 61880, 61881, 61882, 61883, 61884, 61885, 61886                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Llaves de pipa / Angled sockets                                                   | -                    |
| 68   | 55813, 55814, 56015, 56017, 56018, 56019, 56020, 56021, 56023, 56024, 56025, 56026, 56027, 57165, 57166, 57167, 57168, 57169, 57170, 61311, 61312, 61313, 61314, 61315, 61316, 61317, 61318, 61319, 61320, 61321, 61322, 63974, 63975, 63977, 63978, 63979, 63980, 63981, 63982, 63983, 63984, 63985, 63986, 63987, 67640, 67641, 67642, 67643, 67644, 67645, 67646, 67647, 67648, 67649, 67650, 67651, 67652, 67660, 67661, 67662, 67663, 67664, 67665, 67666, 67667, 67668, 67669, 67670                                                                                                                                                                                                                                                                                                                                                 |                                                                                   | 1/4"                 |
| 77   | 57171, 57172, 57173, 57174, 57175, 57176, 57177, 57178, 61343, 61344, 61345, 61346, 61347, 61348, 61349, 61350, 61351, 61352, 61353, 61354, 61355, 61356, 61357, 67539, 67540, 67541, 67542, 67543, 67544, 67545, 67546, 67547, 67548, 67549, 67550, 67551, 67552, 67553, 67554, 67555, 67556, 67557, 67558, 67559, 67560, 67561, 67705, 67706, 67707, 67708, 67709, 67710, 67711, 67712, 67713, 67714, 67715, 67716, 67717, 67719, 67720, 67725, 67726, 67727, 67728, 67729, 67730, 67731, 67732, 67733, 67734, 67735, 67736, 67737, 67738, 67739, 67740                                                                                                                                                                                                                                                                                  | Llaves de vaso / Socket wrenches                                                  | 3/8"                 |
| 116  | 55795, 55796, 55797, 55798, 55799, 55800, 55801, 55802, 55803, 55804, 55805, 55806, 55807, 55808, 55809, 55810, 55811, 55833, 55834, 57179, 57180, 57181, 57182, 57183, 57184, 57185, 57186, 57187, 61380, 61381, 61382, 61383, 61384, 61385, 61386, 61387, 61388, 61389, 61390, 61391, 61392, 61393, 61394, 61395, 61396, 61397, 61398, 61399, 61400, 61401, 61402, 61403, 61800, 61801, 61802, 61803, 61804, 61805, 61806, 61807, 61808, 61809, 61810, 61811, 61812, 61813, 61814, 61815, 61816, 61817, 61818, 61819, 61820, 61821, 61822, 61823, 65044, 65045, 65046, 65047, 65048, 65049, 65050, 65051, 65052, 65053, 65054, 65055, 65056, 65057, 67770, 67771, 67772, 67773, 67774, 67775, 67780, 67781, 67782, 67783, 67784, 67785, 67786, 67787, 67788, 67789, 67791, 67792, 67793, 67794, 67795, 67796, 67797, 67798, 67799, 67800 |                                                                                   | 1/2"                 |
| 6    | 57718, 57719, 57720, 57721, 57722, 57723                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Llaves estrella planas Torx® / Double ended flat ring spanners Torx®              | -                    |
| 16   | 61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708, 61709, 61710, 61711, 61712, 61713, 67917, 67963, 67967                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Llaves fijas / Open-end wrenches                                                  | -                    |
| 3    | 57211, 57212, 57213                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Llaves fijas Crowfoot / Open end Crowfoot wrenches                                | 1/4"                 |
| 8    | 55710, 55711, 55712, 55713, 55714, 55715, 55716, 55717                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                   | 3/8"                 |
| 10   | 56200, 56201, 56202, 56203, 56204, 56205, 56206, 56207, 56208, 56209                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Llaves fijas extrafinas / Slim open end wrenches                                  | -                    |
| 17   | 58520, 58521, 58522, 58523, 58524, 58525, 58526, 58527, 58528, 58529, 58530, 58531, 58532, 58533, 58534, 58535, 58536                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Llaves fijas micromecánicas a 15° y 75° / 15° and 75° micromech open end wrenches | -                    |
| 31   | 61525, 61526, 61621, 61622, 61623, 61624, 65306, 65307, 65308, 65309, 65310, 65311, 65312, 65313, 65330, 65331, 65332, 65519, 65958, 65959, 65960, 67300, 67301, 67302, 67303, 67304, 67305, 67493, 67494, 67495, 67496                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Llaves hexagonales / Hexagonal key wrenches                                       | -                    |
| 10   | 61530, 61531, 61532, 61533, 61534, 61535, 61536, 61537, 61538, 61539                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Llaves mastergear articuladas / Mastergear joint wrenches                         | -                    |
| 11   | 57155, 57156, 57157, 57158, 57159, 57160, 57161, 57162, 57163, 60795, 60798                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Llaves media luna / Half moon spanners                                            | -                    |
| 2    | 61001, 61004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Llaves Stillson / Stillson pipe wrenches                                          | -                    |
| 20   | 56544, 56545, 56546, 56547, 56548, 56549, 56550, 56551, 56552, 56553, 56554, 56556, 56557, 56558, 56559, 56560, 56561, 56562, 56563, 56564                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Llaves Tamper Torx / Tamper Torx keys                                             | -                    |
| 19   | 65333, 65334, 65335, 65336, 65337, 65338, 65339, 65340, 65341, 65342, 65343, 65344, 65346, 65347, 65348, 65349, 65350, 67801, 67802                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Llaves Torx® / Torx® keys                                                         | -                    |
|      | 69504                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Magnetizador-desmagnetizador / Magnetizer-demagnetizer                            | -                    |
|      | 61438                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                   | 1/4"                 |
| 1    | 61439<br>61440                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Mango correrizo en T / Sliding "T" handle                                         | 3/8"<br>1/2"         |
|      | 65874                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                   | 1/4"                 |
|      | 65875                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Mango articulado / Swivel handle                                                  | 3/8"                 |
| 15   | 55326, 69521, 69601, 69603, 69612, 69613, 69614, 69617, 69618, 69620, 69622, 69675, 69681, 69701, 69712                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Martillos / Hammers                                                               | -                    |
| 1    | 69525                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Navajas / Penknives                                                               | -                    |
|      | 65158                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Nivel magnético torpedo / Torpedo Magnetic level                                  | -                    |
| 4    | 69530, 69531, 69532, 69533<br>66049, 66052, 66053, 66054                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Pinzas / Tweezers<br>Portatornillos magnéticos / Magnetic screwdrivers            | -                    |
| 1    | 55265                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Punta portavasos / Socket holder bit                                              | -                    |
|      | 58162                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Puntas atornilladoras / Bits                                                      | -                    |
| 61   | 53000, 53001, 53002, 53003, 53004, 53005, 53006, 53007, 53008, 53009, 53010, 53011, 53013, 53015, 53016, 53017, 53019, 53020, 53021, 53023, 53024, 53025, 53034, 53035, 53036, 53037, 53038, 53039, 53041, 53042, 53043, 53044, 53045, 53046, 53047, 53048, 53049, 53050, 55697, 55698, 55699, 55700, 58900, 66729, 66730, 66733, 66734, 66735, 66736, 66737, 66738, 66739, 66740, 66741, 66742, 66743, 66744, 66745, 66746, 66747, 67164                                                                                                                                                                                                                                                                                                                                                                                                  | Puntas atornilladoras con vaso / Socket bits                                      | 1/4"                 |



| PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Descripción / Description / Description                       |        |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------|
| 63   | 53063, 53065, 53066, 53067, 53068, 53069, 53070, 53071, 53072, 53074, 53075, 53076, 53078, 53079, 53080, 53082, 53083, 53084, 53086, 53087, 53088, 53089, 53098, 53099, 53100, 53101, 53102, 53103, 55701, 55702, 55703, 58892, 58893, 58896, 58897, 66760, 66761, 66762, 66763, 66764, 66765, 66766, 66767, 66768, 66769, 66770, 66771, 66772, 66773, 66774, 66775, 66776, 66777, 66778, 66779, 66780, 66781, 66782, 66783, 66784, 66785, 66786, 66787                                                                                                          |                                                               | 3/8"   |
| 78   | 53105, 53107, 53108, 53109, 53110, 53115, 53116, 53117, 53118, 53119, 53120, 53121, 53122, 53123, 53124, 53125, 53127, 53128, 53129, 53131, 53132, 53133, 53134, 53136, 53137, 53138, 53139, 53149, 53150, 53151, 53152, 53153, 53154, 53155, 53156, 53157, 53158, 53159, 55704, 55705, 55706, 55707, 55708, 56895, 56896, 56897, 66801, 66802, 66803, 66804, 66805, 66806, 66807, 66808, 66809, 66810, 66811, 66812, 66813, 66814, 66815, 66816, 66817, 66818, 66819, 66820, 66821, 66822, 66823, 66824, 66825, 66826, 66827, 66828, 66829, 66842, 67213, 67214 | Puntas atornilladoras con vaso / Socket bits                  | 1/2"   |
| 7    | 57575, 57576, 66269, 66270, 66271, 66279, 66280                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Puntas Stecker / Magnetic Stecker                             | 1/4"   |
| 1    | 65783                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Punzón / Awl                                                  |        |
| 10   | 64671, 64672, 64673, 64674, 64675, 64676, 64677, 64678, 64679, 64680                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Recogedor telescópico / Telescopic joint pick up              |        |
| 2    | 69570, 69572                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Sargentos / Clamps                                            | -      |
| 6    | 62123, 62146, 62177, 62284, 62793, 62795                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Tenazas / Pincers                                             |        |
|      | 62170                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Tijeras / Tin snips                                           |        |
|      | 69534                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Tijeras electricista / Electrician's scissors                 |        |
| 1    | 65846                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Vaso adaptador para puntas / Square drive bit retainer        | 1/4"   |
|      | 87628                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Limpiador multiusos / Multi-purpose cleaner                   | 250 ml |
|      | 63988                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cinta de señalización de seguridad / Safety hazard signs tape | -      |

# EGGA Master

## ART IN INNOVATION

INCH



| COD.  | PCS. |  | Medidas en / Sizes in / Mesures en |  |
|-------|------|-------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|
| 51713 |      |                                                                                     |                                    | 120                                                                                   |
| 51714 | 1003 | 57060                                                                               | inch                               | 310                                                                                   |
| 51715 |      | 50954 (3)                                                                           |                                    | 470                                                                                   |

| PCS. | Composición / Composition / Composition                                                                                                                                                                                 | Descripción / Description / Description                     |      |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------|
| 1    | 65880                                                                                                                                                                                                                   |                                                             | 1/4" |
| 2    | 65881, 65884                                                                                                                                                                                                            | Adaptador para llaves de vaso / Adapter for socket wrenches | 3/8" |
|      | 65882, 65885                                                                                                                                                                                                            |                                                             | 1/2" |
|      | 62773                                                                                                                                                                                                                   |                                                             | 3/8" |
| 1    | 62774                                                                                                                                                                                                                   | Adaptadores cuadrado - hexagono / Square - hex adapters     | 1/2" |
|      | 62775                                                                                                                                                                                                                   | Adaptadores portapuntas / Bit holders                       |      |
| 4    | 66261, 66262, 66263, 66264                                                                                                                                                                                              | Adaptadores portapuntas magnéticos / Magnetic bit holders   | 1/4" |
| 1    | 65603                                                                                                                                                                                                                   | Agujas de trazar / Scribes                                  | -    |
| 3    | 61442, 61444, 61445                                                                                                                                                                                                     |                                                             | 1/4" |
| 5    | 61447, 61450, 61459, 62118, 62732                                                                                                                                                                                       | Alargaderas / Extensions                                    | 3/8" |
| 4    | 61453, 61455, 61458, 62119                                                                                                                                                                                              |                                                             | 1/2" |
| 12   | 62331, 62333, 62337, 62338, 62339, 62340, 62341, 62342, 62343, 62345, 62348, 62349                                                                                                                                      | Alicates / Pliers                                           |      |
| 16   | 62180, 62181, 62182, 62183, 62214, 62215, 62216, 62218, 62219, 62220, 62222, 62223, 62224, 62226, 62227, 62228                                                                                                          | Alicates Circlips / Circlips pliers                         |      |
| 2    | 62493, 62494                                                                                                                                                                                                            | Alicates de terminales / Crimping pliers                    | -    |
| 9    | 62241, 62242, 62243, 62244, 62245, 62246, 62247, 62248, 62249                                                                                                                                                           | Alicates mini / Mini Pliers                                 |      |
|      | 62090                                                                                                                                                                                                                   | Alicates tipo Ford / Slip joint pliers                      |      |
|      | 63745                                                                                                                                                                                                                   | Arcos de sierra / Hack saws                                 |      |
|      | 61435                                                                                                                                                                                                                   |                                                             | 1/4" |
| 1    | 61436                                                                                                                                                                                                                   | Articulación universal / Universal joint                    | 3/8" |
|      | 61437                                                                                                                                                                                                                   |                                                             | 1/2" |
|      | 61408                                                                                                                                                                                                                   |                                                             | 1/4" |
|      | 61409                                                                                                                                                                                                                   | Berbiquí / Speeder Handle                                   | 3/8" |
|      | 61434                                                                                                                                                                                                                   |                                                             | 1/2" |
| 14   | 63387, 63388, 63389, 63390, 63391, 63392, 63393, 63408, 63409, 63410, 63411, 63412, 63413, 63414                                                                                                                        | Botadores / Punches                                         |      |
| 6    | 62871, 62872, 62873, 62874, 62875, 62876                                                                                                                                                                                | Buriles planos / Crosscut chisels                           |      |
| 1    | 66074                                                                                                                                                                                                                   | Buscapolos / Voltage tester                                 |      |
| 18   | 62847, 62848, 62849, 62850, 62851, 62853, 62854, 62855, 62856, 62857, 63309, 63310, 63311, 63315, 63316, 63320, 63321, 63472                                                                                            | Cinceles / Chisels                                          | -    |
| 2    | 65622, 65627                                                                                                                                                                                                            | Compases / Calipers                                         |      |
| 1    | 63915                                                                                                                                                                                                                   | Cortabridas / Plastic tie cutters                           |      |
|      | 69501                                                                                                                                                                                                                   | Cortadores / Cutters                                        |      |
| 3    | 63097, 63170, 63199                                                                                                                                                                                                     | Cortatubos / Tube cutters                                   |      |
| 1    | 66732                                                                                                                                                                                                                   | Destornillador portavasos / Socket holder                   | 1/4" |
| 4    | 57675, 57676, 57677, 57678                                                                                                                                                                                              | Destornilladores acodados / Offset screwdrivers             |      |
| 3    | 55371, 66526, 66527                                                                                                                                                                                                     | Destornilladores carroceros / Stubby screwdrivers           |      |
| 15   | 55372, 55373, 55374, 55375, 55376, 55378, 55379, 55380, 55382, 55383, 55385, 55397, 55399, 55401, 66518                                                                                                                 | Destornilladores de vaso / Socket screwdrivers              |      |
| 8    | 55352, 55354, 55355, 55357, 55358, 55359, 55360, 55361                                                                                                                                                                  | Destornilladores electricista / Electrician screwdrivers    |      |
| 11   | 55328, 55329, 55330, 55331, 55332, 55333, 55334, 55335, 55337, 55338, 55341                                                                                                                                             | Destornilladores mecánicos / Slotted screwdrivers           |      |
| 18   | 55449, 55450, 55451, 55452, 55453, 55457, 66850, 66851, 66852, 66853, 66854, 66866, 66867, 66868, 66869, 66870, 66871, 66872                                                                                            | Destornilladores Microtronic / Microtronic screwdrivers     |      |
| 8    | 66437, 66438, 66439, 66440, 66441, 66442, 66443, 67192                                                                                                                                                                  | Destornilladores Phillips® / Phillips® screwdrivers         |      |
| 3    | 66249, 66731, 66844                                                                                                                                                                                                     | Destornilladores portapuntas / Bitholder screwdrivers       |      |
| 8    | 66456, 66457, 66458, 66459, 66460, 66472, 66473, 67193                                                                                                                                                                  | Destornilladores Pozidriv® / Pozidriv® screwdrivers         |      |
| 3    | 66530, 66531, 66532                                                                                                                                                                                                     | Destornilladores Robertson / Screwdrivers Robertson         |      |
| 13   | 66487, 66488, 66489, 66490, 66491, 66492, 66493, 66494, 66495, 66496, 66497, 66498, 66499                                                                                                                               | Destornilladores Tamper Torx / Screwdrivers Tamper Torx     |      |
| 1    | 63085                                                                                                                                                                                                                   | Escariadores / Reamers                                      |      |
| 2    | 63701, 63709                                                                                                                                                                                                            | Escofinas / Rasps                                           | -    |
| 1    | 65766                                                                                                                                                                                                                   | Escuadra magnética para soldadura / Magnetic welding square |      |
| 2    | 65768, 65813                                                                                                                                                                                                            | Escuadras / Squares                                         |      |
| 8    | 61583, 61584, 61585, 61586, 61587, 61588, 61589, 61590                                                                                                                                                                  | Extractores de tornillos / Screw extractors                 |      |
| 1    | 65361                                                                                                                                                                                                                   | Flexómetros / Measuring tapes                               |      |
| 6    | 63429, 63430, 63431, 63432, 63433, 63434                                                                                                                                                                                | Granetes / Center punches                                   |      |
| 1    | 65852                                                                                                                                                                                                                   | Juegos de golpe números / Punches numbers                   |      |
| 17   | 63492, 63504, 63528, 63540, 63564, 63576, 63600, 63612, 63636, 63648, 63672, 63684, 63714, 63715, 63717, 63718, 63719                                                                                                   | Limas / Files                                               |      |
| 1    | 58641                                                                                                                                                                                                                   | Linternas / Flashlights                                     |      |
| 13   | 60380, 60381, 60382, 60384, 60385, 60388, 60390, 60391, 67886, 67887, 67888, 67893, 67894                                                                                                                               | Llaves acodadas / Double offset ring wrenches               |      |
| 2    | 61110, 61113                                                                                                                                                                                                            | Llaves ajustables / Adjustable wrenches                     |      |
|      | 58460, 58461, 58462, 58463, 58464, 58465, 58466, 58467, 60340, 60341, 60342, 60343, 60344, 60345, 60346, 60347, 60348, 60349, 60350, 60351, 60352, 60353, 60354, 60355, 60356, 60358, 60957, 67878, 67885, 67953, 67954 | Llaves combinadas / Combination wrenches                    |      |
| 1    | 62603                                                                                                                                                                                                                   | Llaves de carraca reversible / Reversible ratchet handles   | 1/4" |

| PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Descripción / Description / Description                                                    |      |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------|
| 1    | 62604                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Llaves de carraca reversible / Reversible ratchet handles                                  | 3/8" |
|      | 62606                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                            | 1/2" |
| 10   | 68283, 68284, 68285, 68286, 68287, 68288, 68289, 68290, 68291, 68292                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Llaves de gancho / Hook spanners                                                           | -    |
| 62   | 55813, 55814, 56015, 56017, 56018, 56019, 56020, 56021, 56023, 56024, 56025, 56026, 56027, 57165, 57166, 57167, 57168, 57169, 57170, 60420, 60421, 60422, 60423, 60424, 60425, 60426, 60427, 60428, 60429, 60430, 63989, 63990, 63991, 63992, 63993, 63994, 63995, 63996, 63997, 63998, 67674, 67675, 67676, 67677, 67678, 67679, 67680, 67681, 67682, 67683, 67684, 67689, 67690, 67691, 67692, 67693, 67694, 67695, 67696, 67697, 67698, 67699                                                                                                                                                                  |                                                                                            | 1/4" |
| 41   | 57173, 57174, 57175, 57176, 57177, 60439, 60440, 60441, 60442, 60443, 60444, 60445, 60446, 60447, 60448, 60449, 60450, 60451, 60452, 60453, 67620, 67621, 67622, 67623, 67624, 67625, 67626, 67627, 67750, 67751, 67752, 67753, 67754, 67755, 67756, 67757, 67758, 67759, 67760, 67761, 67762                                                                                                                                                                                                                                                                                                                     | Llaves de vaso / Socket wrenches                                                           | 3/8" |
| 85   | 55795, 55796, 55797, 55798, 55799, 55800, 55801, 55802, 55803, 55804, 55805, 55806, 55807, 55808, 55809, 55810, 55811, 55833, 55834, 57185, 57186, 57187, 60459, 60460, 60461, 60462, 60463, 60464, 60465, 60466, 60467, 60468, 60469, 60470, 60471, 60472, 60473, 60474, 60475, 60476, 60477, 60478, 60479, 60480, 60481, 60482, 60483, 60484, 60485, 60486, 60487, 60488, 60489, 60490, 60491, 60492, 60493, 60494, 60495, 60496, 60497, 60498, 65064, 65065, 65066, 65067, 65068, 65069, 65070, 65071, 65072, 65073, 67805, 67806, 67807, 67808, 67809, 67810, 67811, 67812, 67813, 67814, 67815, 67816, 67818 |                                                                                            | 1/2" |
| 6    | 56230, 56231, 56232, 56233, 56234, 58911                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Llaves estrella dos bocas extrafina compensadas a 15° / Slim double ring wrenches 15° bent |      |
| 5    | 56235, 56236, 56237, 56238, 56239                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Llaves estrella plana de dos bocas extrafinas / Slim flat double ring wrenches             |      |
| 6    | 57775, 57776, 57777, 57778, 57779                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Llaves estrella planas / Double ended flat ring spanners                                   | -    |
| 6    | 57718, 57719, 57720, 57721, 57722, 57723                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Llaves estrella planas Torx® / Double ended flat ring spanners Torx®                       |      |
| 25   | 60300, 60301, 60302, 60303, 60304, 60305, 60306, 60307, 60308, 60309, 60310, 60311, 60312, 60313, 60314, 60315, 67931, 67934, 67939, 67940, 67941, 67942, 67943, 67944, 67945                                                                                                                                                                                                                                                                                                                                                                                                                                     | Llaves fijas / Open-end wrenches                                                           |      |
| 5    | 57218, 57219, 57220, 57221, 57222                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                            | 1/4" |
| 11   | 55724, 55725, 55726, 55727, 55728, 55729, 55730, 55731, 55732, 55733, 55734                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Llaves fijas Crowfoot / Open end Crowfoot wrenches                                         | 3/8" |
| 8    | 56210, 56211, 56212, 56213, 56214, 56215, 56216, 56217                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Llaves fijas extrafinas / Slim open end wrenches                                           |      |
| 13   | 58537, 58538, 58539, 58540, 58541, 58542, 58543, 58544, 58545, 58546, 58547, 58548, 58549                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Llaves fijas micromecánicas a 15° y 75° / 15° and 75° micromech open end wrenches          |      |
| 31   | 65315, 65316, 65317, 65318, 65319, 65320, 65321, 65322, 65323, 65324, 65325, 65326, 65327, 65328, 65329, 67653, 67671, 67672, 68900, 68901, 68902, 68903, 68904, 68905, 68906, 68907, 68908, 68909, 68910, 68911, 68912                                                                                                                                                                                                                                                                                                                                                                                           | Llaves hexagonales / Hexagonal key wrenches                                                |      |
| 13   | 68914, 68915, 68916, 68917, 68918, 68919, 68920, 68921, 68922, 68923, 68924, 68925, 68926                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Llaves hexagonales bola / Hexagonal key wrenches ball type                                 |      |
| 6    | 57148, 57149, 57150, 57151, 57152, 57153                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Llaves media luna / Half moon spanners                                                     | -    |
| 8    | 58752, 58753, 58754, 58755, 58756, 58757, 58758, 58759                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Llaves para racores / Flare nut spanners                                                   |      |
| 6    | 65975, 65976, 65977, 65978, 65979, 65980                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Llaves Ribe® / Ribe® wrenches                                                              |      |
| 2    | 61001, 61004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Llaves Stillson / Stillson pipe wrenches                                                   |      |
| 20   | 56544, 56545, 56546, 56547, 56548, 56549, 56550, 56551, 56552, 56553, 56554, 56556, 56557, 56558, 56559, 56560, 56561, 56562, 56563, 56564                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Llaves Tamper Torx / Tamper Torx keys                                                      |      |
|      | 69504                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Magnetizador-desmagnetizador / Magnetizer-demagnetizer                                     |      |
|      | 61438                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                            | 1/4" |
|      | 61439                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Mango correrizo en T / Sliding "T" handle                                                  | 3/8" |
|      | 61440                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                            | 1/2" |
|      | 65874                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                            | 1/4" |
|      | 65875                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Mango articulado / Swivel handle                                                           | 3/8" |
| 14   | 55326, 69521, 69601, 69603, 69605, 69612, 69614, 69617, 69618, 69620, 69675, 69681, 69701, 69712                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Martillos / Hammers                                                                        |      |
| 5    | 68043, 68048, 68050, 68051, 68056                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Muelles curvabutos / Spring tube benders                                                   |      |
| 1    | 69525                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Navajas / Penknives                                                                        | -    |
|      | 65158                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Nivel magnético torpedo / Torpedo Magnetic level                                           |      |
| 4    | 69530, 69531, 69532, 69533                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Pinzas / Tweezers                                                                          |      |
|      | 55265                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Punta portavasos / Socket holder bit                                                       | 1/4" |
|      | 61695                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                            |      |
| 1    | 61696                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Puntas adaptadoras para vasos / Adapter bits for sockets                                   | 3/8" |
|      | 61697                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                            | 1/2" |
| 73   | 58157, 58158, 58160, 58161, 58164, 58180, 58181, 58182, 58183, 58184, 58185, 58186, 58187, 58188, 58227, 58228, 58229, 58230, 58231, 58232, 58233, 58234, 58235, 58236, 58237, 58238, 58239, 58240, 58241, 58242, 58243, 58244, 58245, 58246, 58247, 58248, 58249, 58250, 58251, 58252, 58253, 58254, 58255, 58256, 58257, 58258, 58259, 58260, 58261, 58262, 58263, 58264, 58265, 58266, 58267, 58268, 58269, 58273, 58274, 58275, 58276, 58277, 58278, 58279, 58280, 58281, 58282, 58288, 58289, 58290, 58291, 58292, 58293                                                                                     | Puntas atornilladoras / Bits                                                               | 1/4" |
| 64   | 53000, 53001, 53002, 53003, 53004, 53005, 53006, 53007, 53008, 53009, 53010, 53011, 53015, 53016, 53017, 53019, 53020, 53021, 53023, 53024, 53025, 53027, 53028, 53029, 53030, 53031, 53032, 53034, 53035, 53036, 53037, 53038, 53039, 53051, 53052, 53053, 53054, 53055, 53056, 53057, 53058, 53059, 53060, 55670, 55671, 55672, 55673, 55674, 55675, 55676, 55677, 55678, 55679, 58900, 66733, 66734, 66735, 66736, 66737, 66738, 66739, 66740, 66741, 66742                                                                                                                                                    | Puntas atornilladoras con vaso / Socket bits                                               |      |

| PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Descripción / Description / Description                       |        |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------|
| 65   | 53065, 53066, 53067, 53068, 53069, 53070, 53071, 53072, 53074, 53075, 53076, 53078, 53079, 53080, 53082, 53083, 53084, 53086, 53087, 53088, 53089, 53098, 53099, 53100, 53101, 53102, 53103, 55680, 55681, 55682, 55683, 55684, 55685, 55686, 55687, 56975, 56976, 56977, 56978, 56979, 56980, 56981, 56982, 56985, 56986, 56987, 56988, 56989, 56990, 56991, 56992, 56993, 58896, 58897, 66760, 66761, 66762, 66763, 66764, 66765, 66766, 66767, 66768, 66769, 66770                                                  | Puntas atornilladoras con vaso / Socket bits                  | 3/8"   |
| 72   | 53105, 53107, 53108, 53109, 53110, 53115, 53116, 53117, 53118, 53119, 53120, 53121, 53122, 53123, 53124, 53125, 53127, 53128, 53129, 53131, 53132, 53133, 53134, 53136, 53137, 53138, 53139, 53149, 53150, 53151, 53152, 53153, 53154, 53155, 53156, 53157, 53158, 53159, 55688, 55689, 55690, 55691, 55692, 55693, 55695, 55696, 56896, 56897, 65985, 65986, 65987, 65988, 65989, 65990, 65991, 65992, 66801, 66802, 66803, 66804, 66805, 66806, 66820, 66821, 66822, 66823, 66824, 66825, 66826, 66827, 66828, 66829 | Puntas atornilladoras con vaso / Socket bits                  | 1/2"   |
| 1    | 65783                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Punzón / Awl                                                  |        |
| 1    | 65601                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Recogedor telescópico / Telescopic joint pick up              |        |
| 10   | 64671, 64672, 64673, 64674, 64675, 64676, 64677, 64678, 64679, 64680                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Reglas / Rulers                                               |        |
| 2    | 69570, 69572                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Sacabocados / Hollow punches                                  |        |
| 6    | 62123, 62145, 62177, 62284, 62793, 62795                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Sargentos / Clamps                                            |        |
|      | 62170                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Tenazas / Pincers                                             |        |
|      | 69534                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Tijeras / Tin snips                                           |        |
| 1    | 65846                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Tijeras electricista / Electrician's scissors                 |        |
|      | 87628                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Vaso adaptador para puntas / Square drive bit retainer        | 1/4"   |
|      | 63988                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Limpiador multiusos / Multi-purpose cleaner                   | 250 ml |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Cinta de señalización de seguridad / Safety hazard signs tape | -      |

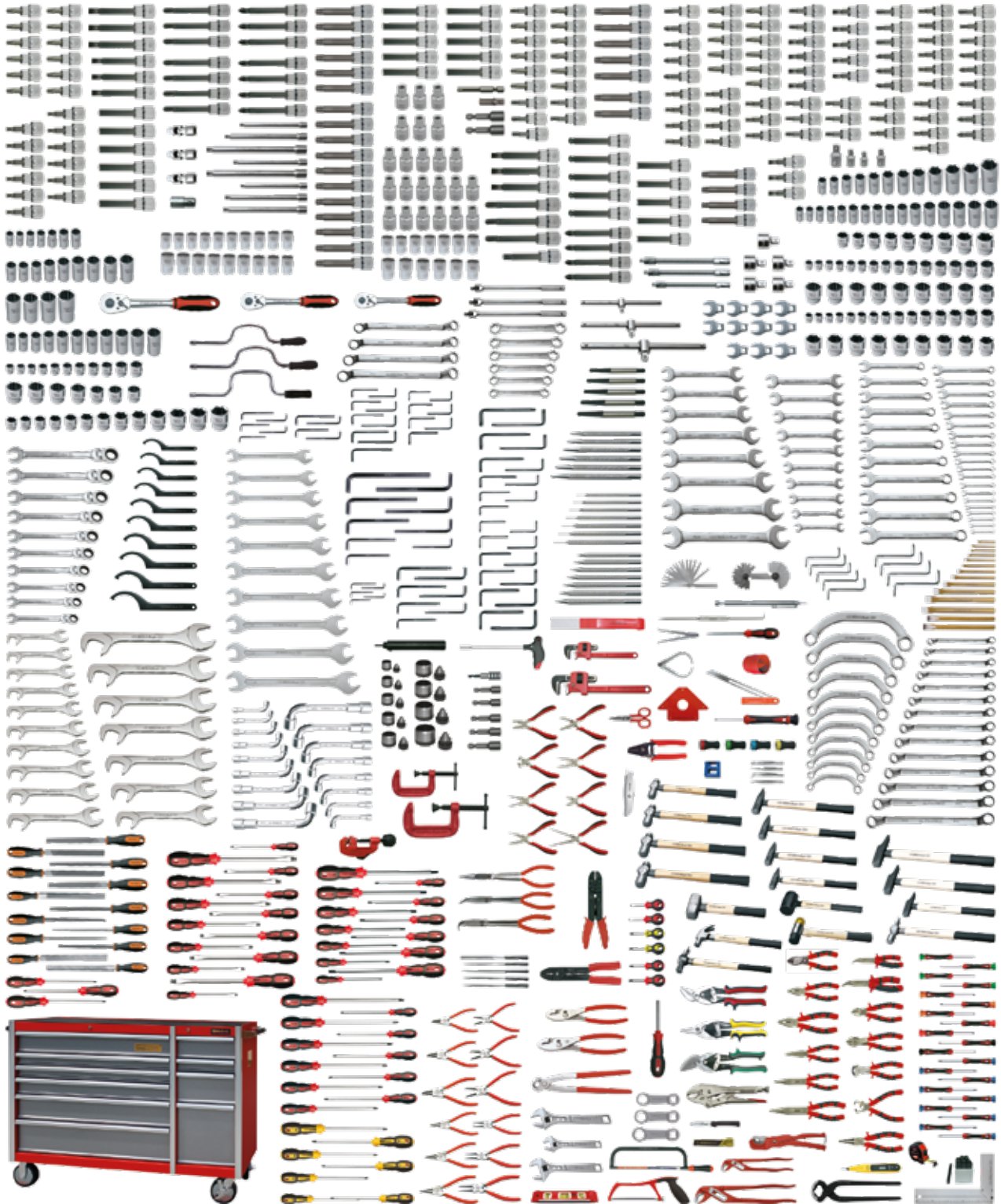
# EGGA Master



## ART IN INNOVATION



■ ≈ 900 PCS.

■ MM



| COD.  | PCS. |  | Medidas en / Sizes in / Mesures en |  | Kg  |
|-------|------|-------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|-----|
| 51716 |      |                                                                                     |                                    |                                                                                       | 120 |
| 51717 | 895  | 57060                                                                               | mm                                 |                                                                                       | 310 |
| 51718 |      | 50954 (3)                                                                           |                                    | ●                                                                                     | 380 |

Si no encuentra el artículo que necesita, consúltenos en [consulta@egamaster.com](mailto:consulta@egamaster.com) o en [www.egamaster.com](http://www.egamaster.com)  
 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
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| PCS. | Composición / Composition / Composition                                                                                                    | Descripción / Description / Description                     |      |
|------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------|
| 1    | 65880                                                                                                                                      |                                                             | 1/4" |
| 2    | 65881, 65884                                                                                                                               | Adaptador para llaves de vaso / Adapter for socket wrenches | 3/8" |
|      | 65882, 65885                                                                                                                               |                                                             | 1/2" |
|      | 62772                                                                                                                                      |                                                             | 1/4" |
| 1    | 62773                                                                                                                                      | Adaptadores cuadrado - hexagono / Square - hex adapters     | 3/8" |
|      | 62774                                                                                                                                      |                                                             | 1/2" |
| 3    | 57315, 57316, 57317                                                                                                                        | Adaptadores de par / Torque adapters                        | 3/8" |
|      | 62775                                                                                                                                      | Adaptadores portapuntas / Bit holders                       |      |
| 1    | 66264                                                                                                                                      | Adaptadores portapuntas magnéticos / Magnetic bit holders   | 1/4" |
|      | 65603                                                                                                                                      | Agujas de trazar / Scribers                                 | -    |
|      | 61442, 61443, 61444, 61445                                                                                                                 |                                                             | 1/4" |
| 4    | 61447, 61450, 62118, 62732                                                                                                                 | Alargaderas / Extensions                                    | 3/8" |
|      | 61453, 61455, 61458, 62119                                                                                                                 |                                                             | 1/2" |
| 12   | 62331, 62333, 62337, 62338, 62339, 62340, 62341, 62342, 62343, 62344, 62346, 62349                                                         | Alicates / Pliers                                           |      |
| 15   | 62180, 62181, 62182, 62183, 62215, 62216, 62219, 62220, 62223, 62224, 62227, 62228, 63954, 63955, 63956                                    | Alicates Circlips / Circlips pliers                         |      |
| 2    | 62493, 62494                                                                                                                               | Alicates de terminales / Crimping pliers                    | -    |
| 9    | 62241, 62242, 62243, 62244, 62245, 62246, 62247, 62248, 62249                                                                              | Alicates mini / Mini Pliers                                 |      |
| 2    | 62090, 62092                                                                                                                               | Alicates tipo Ford / Slip joint pliers                      |      |
|      | 63299, 63745                                                                                                                               | Arcos de sierra / Hack saws                                 |      |
|      | 61435                                                                                                                                      |                                                             | 1/4" |
|      | 61436                                                                                                                                      | Articulación universal / Universal joint                    | 3/8" |
| 1    | 61437                                                                                                                                      |                                                             | 1/2" |
|      | 61408                                                                                                                                      |                                                             | 1/4" |
|      | 61409                                                                                                                                      | Berbiquí / Speeder Handle                                   | 3/8" |
|      | 61434                                                                                                                                      |                                                             | 1/2" |
| 14   | 63387, 63388, 63389, 63390, 63391, 63392, 63393, 63408, 63409, 63410, 63411, 63412, 63413, 63414                                           | Botadores / Punches                                         |      |
| 1    | 62876                                                                                                                                      | Buriles planos / Crosscut chisels                           |      |
|      | 66074                                                                                                                                      | Buscapolos / Voltage tester                                 |      |
| 14   | 62847, 62848, 62849, 62850, 62851, 62853, 62854, 62855, 62856, 62857, 62858, 63320, 63321, 63472                                           | Cinceles / Chisels                                          | -    |
| 2    | 65622, 65627                                                                                                                               | Compases / Calipers                                         |      |
| 1    | 63915                                                                                                                                      | Cortabridas / Plastic tie cutters                           |      |
|      | 69501                                                                                                                                      | Cortadores / Cutters                                        |      |
| 2    | 63170, 63199                                                                                                                               | Cortatubos / Tube cutters                                   |      |
| 1    | 66732                                                                                                                                      | Destornillador portavasos / Socket holder                   | 1/4" |
| 9    | 57675, 57676, 57677, 57678, 57679, 57680, 57681, 57682, 57683                                                                              | Destornilladores acodados / Offset screwdrivers             |      |
| 4    | 66525, 66526, 66527, 66529                                                                                                                 | Destornilladores carroceros / Stubby screwdrivers           |      |
| 11   | 66411, 66412, 66420, 66421, 66422, 66423, 66424, 66425, 66426, 66427, 66428                                                                | Destornilladores electricista / Electrician screwdrivers    |      |
| 14   | 66399, 66400, 66401, 66402, 66403, 66404, 66405, 66406, 66407, 66408, 66409, 66410, 66448, 66449                                           | Destornilladores mecánicos / Slotted screwdrivers           | -    |
| 20   | 57684, 66846, 66847, 66848, 66849, 66850, 66851, 66852, 66853, 66854, 57685, 66864, 66865, 66866, 66867, 66868, 66869, 66870, 66871, 66872 | Destornilladores Microtronic / Microtronic screwdrivers     |      |
| 8    | 66437, 66438, 66439, 66440, 66441, 66442, 66443, 67192                                                                                     | Destornilladores Phillips® / Phillips® screwdrivers         |      |
| 1    | 66249                                                                                                                                      | Destornilladores portapuntas / Bit holder screwdrivers      | 1/4" |
| 8    | 66456, 66457, 66458, 66459, 66460, 66472, 66473, 67193                                                                                     | Destornilladores Pozidriv® / Pozidriv® screwdrivers         |      |
| 3    | 66530, 66531, 66532                                                                                                                        | Destornilladores Robertson / Screwdrivers Robertson         |      |
| 13   | 66487, 66488, 66489, 66490, 66491, 66492, 66493, 66494, 66495, 66496, 66497, 66498, 66499                                                  | Destornilladores Tamper Torx / Screwdrivers Tamper Torx     |      |
| 1    | 63085                                                                                                                                      | Escariadores / Reamers                                      |      |
| 2    | 63701, 63709                                                                                                                               | Escofinas / Rasps                                           |      |
| 1    | 65766                                                                                                                                      | Escuadra magnética para soldadura / Magnetic welding square |      |
| 2    | 65768, 65813                                                                                                                               | Escuadras / Squares                                         |      |
| 5    | 61586, 61587, 61588, 61589, 61590                                                                                                          | Extractores de tornillos / Screw extractors                 |      |
| 1    | 65171                                                                                                                                      | Flexómetros / Measuring tapes                               | -    |
| 2    | 65559, 65571                                                                                                                               | Galgas / Gauges                                             |      |
| 6    | 63429, 63430, 63431, 63432, 63433, 63434                                                                                                   | Granetes / Center punches                                   |      |
| 1    | 65852                                                                                                                                      | Juegos de golpe números / Punches numbers                   |      |
| 13   | 63504, 63540, 63576, 63612, 63648, 63672, 63684, 63692, 63714, 63715, 63717, 63718, 63719                                                  | Limas / Files                                               |      |
| 1    | 58641                                                                                                                                      | Linternas / Flashlights                                     |      |
| 18   | 61774, 61775, 61776, 61777, 61778, 61779, 61780, 61781, 61782, 61783, 61784, 61785, 61786, 61787, 67843, 67844, 67845, 67855               | Llaves acodadas / Double offset ring wrenches               |      |
| 3    | 61109, 61112, 61213                                                                                                                        | Llaves ajustables / Adjustable wrenches                     |      |

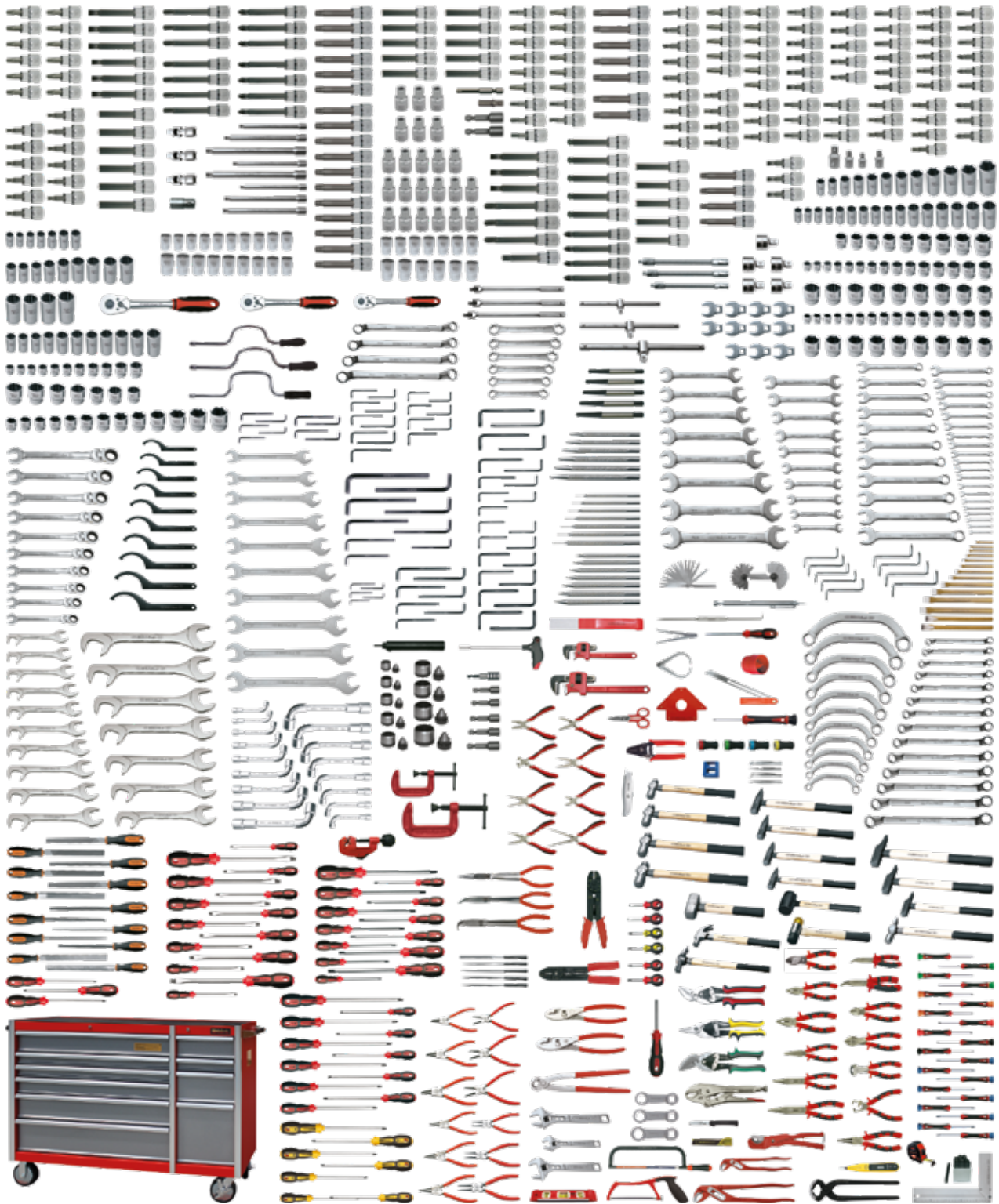
| PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Descripción / Description / Description                                           |      |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|
| 31   | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736, 61737, 61738, 61739, 61740, 61741, 61742, 61743, 61744, 61745, 61746, 61747, 61748, 61749, 61750, 63965, 63966, 63967, 67880, 67881                                                                                                                                                                                                                                                                                                | Llaves combinadas / Combination wrenches                                          | -    |
| 1    | 62603                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Llaves de carraca reversible / Reversible ratchet handles                         | 1/4" |
|      | 62604                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   | 3/8" |
|      | 62606                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   | 1/2" |
| 10   | 68283, 68284, 68285, 68286, 68287, 68288, 68289, 68290, 68291, 68292                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Llaves de gancho / Hook spanners                                                  | -    |
| 17   | 61870, 61871, 61872, 61873, 61874, 61875, 61876, 61877, 61878, 61879, 61880, 61881, 61882, 61883, 61884, 61885, 61886                                                                                                                                                                                                                                                                                                                                                                                                  | Llaves de pipa / Angled sockets                                                   | -    |
| 41   | 55813, 55814, 56015, 56017, 56018, 56019, 56020, 56021, 56023, 56024, 56025, 56026, 56027, 57165, 57166, 57167, 57168, 57169, 57170, 63977, 63978, 63979, 63980, 63981, 63982, 63983, 63984, 63985, 63986, 63987, 67660, 67661, 67662, 67663, 67664, 67665, 67666, 67667, 67668, 67669, 67670                                                                                                                                                                                                                          |                                                                                   | 1/4" |
| 43   | 57171, 57172, 57173, 57174, 57175, 57176, 57177, 57178, 61343, 61344, 61345, 61346, 61347, 61348, 61349, 61350, 61351, 61352, 61353, 61354, 61355, 61356, 61357, 67539, 67540, 67560, 67561, 67725, 67726, 67727, 67728, 67729, 67730, 67731, 67732, 67733, 67734, 67735, 67736, 67737, 67738, 67739, 67740                                                                                                                                                                                                            | Llaves de vaso / Socket wrenches                                                  | 3/8" |
| 72   | 55795, 55796, 55797, 55798, 55799, 55800, 55801, 55802, 55803, 55804, 55805, 55806, 55807, 55808, 55809, 55810, 55811, 55833, 55834, 57179, 57180, 57181, 57182, 57183, 57184, 57185, 57186, 57187, 61380, 61381, 61382, 61383, 61384, 61385, 61386, 61387, 61388, 61389, 61390, 61391, 61392, 61393, 61394, 61395, 61396, 61397, 61398, 61399, 61400, 61401, 61402, 61403, 67780, 67781, 67782, 67783, 67784, 67785, 67786, 67787, 67788, 67789, 67791, 67792, 67793, 67794, 67795, 67796, 67797, 67798, 67799, 67800 |                                                                                   | 1/2" |
| 6    | 57718, 57719, 57720, 57721, 57722, 57723                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Llaves estrella planas Torx® / Double ended flat ring spanners Torx®              | -    |
| 16   | 61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708, 61709, 61710, 61711, 61712, 61713, 67917, 67963, 67967                                                                                                                                                                                                                                                                                                                                                                                                         | Llaves fijas / Open-end wrenches                                                  | -    |
| 3    | 57211, 57212, 57213                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                   | 1/4" |
| 8    | 55710, 55711, 55712, 55713, 55714, 55715, 55716, 55717                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Llaves fijas Crowfoot / Open end Crowfoot wrenches                                | 3/8" |
| 10   | 56200, 56201, 56202, 56203, 56204, 56205, 56206, 56207, 56208, 56209                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Llaves fijas extrafinas / Slim open end wrenches                                  | -    |
| 17   | 58520, 58521, 58522, 58523, 58524, 58525, 58526, 58527, 58528, 58529, 58530, 58531, 58532, 58533, 58534, 58535, 58536                                                                                                                                                                                                                                                                                                                                                                                                  | Llaves fijas micromecánicas a 15° y 75° / 15° and 75° micromech open end wrenches | -    |
| 30   | 61525, 61526, 61621, 61622, 61623, 61624, 65306, 65307, 65308, 65309, 65310, 65311, 65312, 65313, 65330, 65331, 65332, 65519, 65958, 65959, 65960, 67300, 67301, 67302, 67303, 67304, 67305, 67493, 67494, 67495                                                                                                                                                                                                                                                                                                       | Llaves hexagonales / Hexagonal key wrenches                                       | -    |
| 10   | 61530, 61531, 61532, 61533, 61534, 61535, 61536, 61537, 61538, 61539                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Llaves mastergear articuladas / Mastergear joint wrenches                         | -    |
| 11   | 57155, 57156, 57157, 57158, 57159, 57160, 57161, 57162, 57163, 60795, 60798                                                                                                                                                                                                                                                                                                                                                                                                                                            | Llaves media luna / Half moon spanners                                            | -    |
| 2    | 61001, 61004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Llaves Stillson / Stillson pipe wrenches                                          | -    |
| 20   | 56544, 56545, 56546, 56547, 56548, 56549, 56550, 56551, 56552, 56553, 56554, 56556, 56557, 56558, 56559, 56560, 56561, 56562, 56563, 56564                                                                                                                                                                                                                                                                                                                                                                             | Llaves Tamper Torx / Tamper Torx keys                                             | -    |
| 17   | 65333, 65334, 65335, 65336, 65337, 65338, 65339, 65340, 65341, 65342, 65343, 65344, 65346, 65347, 65348, 65349, 65350                                                                                                                                                                                                                                                                                                                                                                                                  | Llaves Torx® / Torx® keys                                                         | -    |
|      | 69504                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Magnetizador-desmagnetizador / Magnetizer-demagnetizer                            | -    |
|      | 65874                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   | 1/4" |
|      | 65875                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Mango articulado / Swivel handle                                                  | 3/8" |
| 1    | 61441                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   | 1/2" |
|      | 61438                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   | 1/4" |
|      | 61439                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Mango corredizo en T / Sliding "T" handle                                         | 3/8" |
|      | 61440                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   | 1/2" |
| 17   | 55326, 69521, 69601, 69603, 69605, 69610, 69612, 69613, 69614, 69617, 69618, 69620, 69622, 69675, 69681, 69701, 69712                                                                                                                                                                                                                                                                                                                                                                                                  | Martillos / Hammers / Marteaux                                                    | -    |
| 1    | 69525                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Navajas / Penknives                                                               | -    |
|      | 65158                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Nivel magnético torpedo / Torpedo Magnetic level                                  | -    |
| 4    | 69530, 69531, 69532, 69533                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Pinzas / Tweezers                                                                 | -    |
|      | 66049, 66052, 66053, 66054                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Portatornillos magnéticos / Magnetic screwholders                                 | -    |
| 1    | 55265                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Punta portavasos / Socket holder bit                                              | -    |
|      | 58162                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Puntas atornilladoras / Bits                                                      | -    |
| 61   | 53000, 53001, 53002, 53003, 53004, 53005, 53006, 53007, 53008, 53009, 53010, 53011, 53013, 53015, 53016, 53017, 53019, 53020, 53021, 53023, 53024, 53025, 53034, 53035, 53036, 53037, 53038, 53039, 53041, 53042, 53043, 53044, 53045, 53046, 53047, 53048, 53049, 53050, 55697, 55698, 55699, 55700, 58900, 66729, 66730, 66733, 66734, 66735, 66736, 66737, 66738, 66739, 66740, 66741, 66742, 66743, 66744, 66745, 66746, 66747, 67164                                                                              | Puntas atornilladoras con vaso / Socket bits                                      | 1/4" |
| 63   | 53063, 53065, 53066, 53067, 53068, 53069, 53070, 53071, 53072, 53074, 53075, 53076, 53078, 53079, 53080, 53082, 53083, 53084, 53086, 53087, 53088, 53089, 53098, 53099, 53100, 53101, 53102, 53103, 55701, 55702, 55703, 58892, 58893, 58896, 58897, 66760, 66761, 66762, 66763, 66764, 66765, 66766, 66767, 66768, 66769, 66770, 66771, 66772, 66773, 66774, 66775, 66776, 66777, 66778, 66779, 66780, 66781, 66782, 66783, 66784, 66785, 66786, 66787                                                                |                                                                                   | 3/8" |



| PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Descripción / Description / Description                       |        |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------|
| 78   | 53105, 53107, 53108, 53109, 53110, 53115, 53116, 53117, 53118, 53119, 53120, 53121, 53122, 53123, 53124, 53125, 53127, 53128, 53129, 53131, 53132, 53133, 53134, 53136, 53137, 53138, 53139, 53149, 53150, 53151, 53152, 53153, 53154, 53155, 53156, 53157, 53158, 53159, 55704, 55705, 55706, 55707, 55708, 56895, 56896, 56897, 66801, 66802, 66803, 66804, 66805, 66806, 66807, 66808, 66809, 66810, 66811, 66812, 66813, 66814, 66815, 66816, 66817, 66818, 66819, 66820, 66821, 66822, 66823, 66824, 66825, 66826, 66827, 66828, 66829, 66842, 67213, 67214 | Puntas atornilladoras con vaso / Socket bits                  | 1/2"   |
| 7    | 57575, 57576, 66269, 66270, 66271, 66279, 66280                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Puntas Stecker / Magnetic Stecker                             | 1/4"   |
| 1    | 65783                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Punzón / Awl                                                  |        |
|      | 65601                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Recogedor telescópico / Telescopic joint pick up              |        |
| 10   | 64671, 64672, 64673, 64674, 64675, 64676, 64677, 64678, 64679, 64680                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sacabocados / Hollow punches                                  |        |
| 2    | 69570, 69572                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Sargentos / Clamps                                            | -      |
| 6    | 62123, 62146, 62177, 62284, 62793, 62795                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Tenazas / Pincers                                             |        |
| 3    | 62169, 62170, 62171                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Tijeras / Tin snips                                           |        |
|      | 69534                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Tijeras electricista / Electrician's scissors                 |        |
| 1    | 65846                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Vaso adaptador para puntas / Square drive bit retainer        | 1/4"   |
|      | 87628                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Limpiador multiusos / Multi-purpose cleaner                   | 250 ml |
|      | 63988                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cinta de señalización de seguridad / Safety hazard signs tape | -      |

**EGGA** *Master*

ART IN INNOVATION

INCH



| COD.  | PCS. |  | Medidas en / Sizes in / Mesures en |  |
|-------|------|-------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|
| 51680 | -    | -                                                                                   | -                                  | 120                                                                                   |
| 51681 | 894  | 57060                                                                               | inch                               | 310                                                                                   |
| 51682 | -    | 50954 (3)                                                                           | •                                  | 380                                                                                   |

| PCS. | Composición / Composition / Composition                                                                                                                                                                                 | Descripción / Description / Description                     |      |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------|
| 1    | 65880                                                                                                                                                                                                                   |                                                             | 1/4" |
| 2    | 65881, 65884                                                                                                                                                                                                            | Adaptador para llaves de vaso / Adapter for socket wrenches | 3/8" |
|      | 65882, 65885                                                                                                                                                                                                            |                                                             | 1/2" |
|      | 62773                                                                                                                                                                                                                   |                                                             | 3/8" |
| 1    | 62774                                                                                                                                                                                                                   | Adaptadores cuadrado - hexagono / Square - hex adapters     | 1/2" |
|      | 62775                                                                                                                                                                                                                   | Adaptadores portapuntas / Bit holders                       |      |
| 4    | 66261, 66262, 66263, 66264                                                                                                                                                                                              | Adaptadores portapuntas magnéticos / Magnetic bit holders   | 1/4" |
| 1    | 65603                                                                                                                                                                                                                   | Agujas de trazar / Scribes                                  | -    |
| 3    | 61442, 61444, 61445                                                                                                                                                                                                     |                                                             | 1/4" |
| 5    | 61447, 61450, 61459, 62118, 62732                                                                                                                                                                                       | Alargaderas / Extensions                                    | 3/8" |
| 4    | 61453, 61455, 61458, 62119                                                                                                                                                                                              |                                                             | 1/2" |
| 13   | 62331, 62333, 62337, 62338, 62339, 62340, 62341, 62342, 62343, 62345, 62348, 62349, 62370                                                                                                                               | Alicates / Pliers                                           |      |
| 16   | 62180, 62181, 62182, 62183, 62214, 62215, 62216, 62218, 62219, 62220, 62222, 62223, 62224, 62226, 62227, 62228                                                                                                          | Alicates Circlips / Circlips pliers                         |      |
| 2    | 62493, 62494                                                                                                                                                                                                            | Alicates de terminales / Crimping pliers                    | -    |
| 9    | 62241, 62242, 62243, 62244, 62245, 62246, 62247, 62248, 62249                                                                                                                                                           | Alicates mini / Mini Pliers                                 |      |
| 2    | 62090, 62092                                                                                                                                                                                                            | Alicates tipo Ford / Slip joint pliers                      |      |
|      | 63745                                                                                                                                                                                                                   | Arcos de sierra / Hack saws                                 |      |
|      | 61435                                                                                                                                                                                                                   |                                                             | 1/4" |
|      | 61436                                                                                                                                                                                                                   | Articulación universal / Universal joint                    | 3/8" |
| 1    | 61437                                                                                                                                                                                                                   |                                                             | 1/2" |
|      | 61408                                                                                                                                                                                                                   |                                                             | 1/4" |
|      | 61409                                                                                                                                                                                                                   | Berbiquí / Speeder Handle                                   | 3/8" |
|      | 61434                                                                                                                                                                                                                   |                                                             | 1/2" |
| 14   | 63387, 63388, 63389, 63390, 63391, 63392, 63393, 63408, 63409, 63410, 63411, 63412, 63413, 63414                                                                                                                        | Botadores / Punches                                         |      |
| 6    | 62871, 62872, 62873, 62874, 62875, 62876                                                                                                                                                                                | Buriles planos / Crosscut chisels                           |      |
| 1    | 66074                                                                                                                                                                                                                   | Buscapolos / Voltage tester                                 |      |
| 19   | 62847, 62848, 62849, 62850, 62851, 62853, 62854, 62855, 62856, 62857, 62858, 63309, 63310, 63311, 63315, 63316, 63320, 63321, 63472                                                                                     | Cinceles / Chisels                                          | -    |
| 2    | 65622, 65627                                                                                                                                                                                                            | Compases / Calipers                                         |      |
| 1    | 63915                                                                                                                                                                                                                   | Cortabridas / Plastic tie cutters                           |      |
|      | 69501                                                                                                                                                                                                                   | Cortadores / Cutters                                        |      |
| 3    | 63097, 63170, 63199                                                                                                                                                                                                     | Cortatubos / Tube cutters                                   |      |
| 1    | 66732                                                                                                                                                                                                                   | Destornillador portavasos / Socket holder                   | 1/4" |
| 4    | 57675, 57676, 57677, 57678                                                                                                                                                                                              | Destornilladores acodados / Offset screwdrivers             |      |
| 3    | 55371, 66526, 66527                                                                                                                                                                                                     | Destornilladores carroceros / Stubby screwdrivers           |      |
| 15   | 55372, 55373, 55374, 55375, 55376, 55378, 55379, 55380, 55382, 55383, 55385, 55397, 55399, 55401, 66518                                                                                                                 | Destornilladores de vaso / Socket screwdrivers              |      |
| 8    | 55352, 55354, 55355, 55357, 55358, 55359, 55360, 55361                                                                                                                                                                  | Destornilladores electricista / Electrician screwdrivers    |      |
| 11   | 55328, 55329, 55330, 55331, 55332, 55333, 55334, 55335, 55337, 55338, 55341                                                                                                                                             | Destornilladores mecánicos / Slotted screwdrivers           |      |
| 18   | 55449, 55450, 55451, 55452, 55453, 55457, 66850, 66851, 66852, 66853, 66854, 66866, 66867, 66868, 66869, 66870, 66871, 66872                                                                                            | Destornilladores Microtronic / Microtronic screwdrivers     |      |
| 8    | 66437, 66438, 66439, 66440, 66441, 66442, 66443, 67192                                                                                                                                                                  | Destornilladores Phillips® / Phillips® screwdrivers         |      |
| 4    | 66249, 66731, 66843, 66844                                                                                                                                                                                              | Destornilladores portapuntas / Bitholder screwdrivers       |      |
| 8    | 66456, 66457, 66458, 66459, 66460, 66472, 66473, 67193                                                                                                                                                                  | Destornilladores Pozidriv® / Pozidriv® screwdrivers         |      |
| 3    | 66530, 66531, 66532                                                                                                                                                                                                     | Destornilladores Robertson / Screwdrivers Robertson         |      |
| 13   | 66487, 66488, 66489, 66490, 66491, 66492, 66493, 66494, 66495, 66496, 66497, 66498, 66499                                                                                                                               | Destornilladores Tamper Torx / Screwdrivers Tamper Torx     |      |
| 1    | 63085                                                                                                                                                                                                                   | Escariadores / Reamers                                      |      |
| 2    | 63701, 63709                                                                                                                                                                                                            | Escofinas / Rasps                                           | -    |
| 1    | 65766                                                                                                                                                                                                                   | Escuadra magnética para soldadura / Magnetic welding square |      |
| 2    | 65768, 65813                                                                                                                                                                                                            | Escuadras / Squares                                         |      |
| 8    | 61583, 61584, 61585, 61586, 61587, 61588, 61589, 61590                                                                                                                                                                  | Extractores de tornillos / Screw extractors                 |      |
| 1    | 65361                                                                                                                                                                                                                   | Flexómetros / Measuring tapes                               |      |
| 6    | 63429, 63430, 63431, 63432, 63433, 63434                                                                                                                                                                                | Granetes / Center punches                                   |      |
| 1    | 65852                                                                                                                                                                                                                   | Juegos de golpe números / Punches numbers                   |      |
| 17   | 63492, 63504, 63528, 63540, 63564, 63576, 63600, 63612, 63636, 63648, 63672, 63684, 63714, 63715, 63717, 63718, 63719                                                                                                   | Limas / Files                                               |      |
| 1    | 58641                                                                                                                                                                                                                   | Linternas / Flashlights                                     |      |
| 13   | 60380, 60381, 60382, 60384, 60385, 60388, 60390, 60391, 67886, 67887, 67888, 67893, 67894                                                                                                                               | Llaves acodadas / Double offset ring wrenches               |      |
| 3    | 61110, 61113, 61213                                                                                                                                                                                                     | Llaves ajustables / Adjustable wrenches                     |      |
|      | 58460, 58461, 58462, 58463, 58464, 58465, 58466, 58467, 60340, 60341, 60342, 60343, 60344, 60345, 60346, 60347, 60348, 60349, 60350, 60351, 60352, 60353, 60354, 60355, 60356, 60358, 60957, 67878, 67885, 67953, 67954 | Llaves combinadas / Combination wrenches                    |      |
| 31   |                                                                                                                                                                                                                         |                                                             |      |
| 1    | 62603                                                                                                                                                                                                                   | Llaves de carraca reversible / Reversible ratchet handles   | 1/4" |

| PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Descripción / Description / Description                                                    |      |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------|
| 1    | 62604                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Llaves de carraca reversible / Reversible ratchet handles                                  | 3/8" |
|      | 62606                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                            | 1/2" |
| 10   | 68283, 68284, 68285, 68286, 68287, 68288, 68289, 68290, 68291, 68292                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Llaves de gancho / Hook spanners                                                           | -    |
| 40   | 55813, 55814, 56015, 56017, 56018, 56019, 56020, 56021, 56023, 56024, 56025, 56026, 56027, 57165, 57166, 57167, 57168, 57169, 57170, 63989, 63990, 63991, 63992, 63993, 63994, 63995, 63996, 63997, 63998, 67689, 67690, 67691, 67692, 67693, 67694, 67695, 67696, 67697, 67698, 67699                                                                                                                                                                                                                                 |                                                                                            | 1/4" |
| 33   | 57173, 57174, 57175, 57176, 57177, 60439, 60440, 60441, 60442, 60443, 60444, 60445, 60446, 60447, 60448, 60449, 60450, 60451, 60452, 60453, 67750, 67751, 67752, 67753, 67754, 67755, 67756, 67757, 67758, 67759, 67760, 67761, 67762                                                                                                                                                                                                                                                                                  | Llaves de vaso / Socket wrenches                                                           | 3/8" |
| 55   | 55795, 55796, 55797, 55798, 55799, 55800, 55801, 55802, 55803, 55804, 55805, 55806, 55807, 55808, 55809, 55810, 55811, 55833, 55834, 57185, 57186, 57187, 60479, 60480, 60481, 60482, 60483, 60484, 60485, 60486, 60487, 60488, 60489, 60490, 60491, 60492, 60493, 60494, 60495, 60496, 60497, 60498, 67805, 67806, 67807, 67808, 67809, 67810, 67811, 67812, 67813, 67814, 67815, 67816, 67818                                                                                                                        |                                                                                            | 1/2" |
| 6    | 56230, 56231, 56232, 56233, 56234, 58911                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Llaves estrella dos bocas extrafina compensadas a 15° / Slim double ring wrenches 15° bent |      |
| 5    | 56235, 56236, 56237, 56238, 56239                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Llaves estrella plana de dos bocas extrafinas / Slim flat double ring wrenches             |      |
|      | 57775, 57776, 57777, 57778, 57779                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Llaves estrella planas / Double ended flat ring spanners                                   | -    |
| 6    | 57718, 57719, 57720, 57721, 57722, 57723                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Llaves estrella planas Torx® / Double ended flat ring spanners Torx®                       |      |
| 25   | 60300, 60301, 60302, 60303, 60304, 60305, 60306, 60307, 60308, 60309, 60310, 60311, 60312, 60313, 60314, 60315, 67931, 67934, 67939, 67940, 67941, 67942, 67943, 67944, 67945                                                                                                                                                                                                                                                                                                                                          | Llaves fijas / Open-end wrenches                                                           |      |
| 5    | 57218, 57219, 57220, 57221, 57222                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Llaves fijas Crowfoot / Open end Crowfoot wrenches                                         | 1/4" |
| 11   | 55724, 55725, 55726, 55727, 55728, 55729, 55730, 55731, 55732, 55733, 55734                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                            | 3/8" |
| 8    | 56210, 56211, 56212, 56213, 56214, 56215, 56216, 56217                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Llaves fijas extrafinas / Slim open end wrenches                                           | -    |
| 11   | 55750, 55751, 55752, 55753, 55754, 55755, 55756, 55757, 55758, 55759, 55760                                                                                                                                                                                                                                                                                                                                                                                                                                            | Llaves fijas hexagonales Crow Foot / Hexagonal Crow Foot wrenches                          | 3/8" |
| 13   | 58537, 58538, 58539, 58540, 58541, 58542, 58543, 58544, 58545, 58546, 58547, 58548, 58549                                                                                                                                                                                                                                                                                                                                                                                                                              | Llaves fijas micromecánicas a 15° y 75° / 15° and 75° micromech open end wrenches          |      |
| 32   | 65315, 65316, 65317, 65318, 65319, 65320, 65321, 65322, 65323, 65324, 65325, 65326, 65327, 65328, 65329, 67614, 67653, 67671, 67672, 68900, 68901, 68902, 68903, 68904, 68905, 68906, 68907, 68908, 68909, 68910, 68911, 68912                                                                                                                                                                                                                                                                                         | Llaves hexagonales / Hexagonal key wrenches                                                |      |
| 13   | 68914, 68915, 68916, 68917, 68918, 68919, 68920, 68921, 68922, 68923, 68924, 68925, 68926                                                                                                                                                                                                                                                                                                                                                                                                                              | Llaves hexagonales bola / Hexagonal key wrenches ball type                                 |      |
| 6    | 57148, 57149, 57150, 57151, 57152, 57153                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Llaves media luna / Half moon spanners                                                     |      |
| 9    | 58752, 58753, 58754, 58755, 58756, 58757, 58758, 58759, 58760                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Llaves para racores / Flare nut spanners                                                   | -    |
| 6    | 65975, 65976, 65977, 65978, 65979, 65980                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Llaves Ribe® / Ribe® wrenches                                                              |      |
| 2    | 61001, 61004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Llaves Stillson / Stillson pipe wrenches                                                   |      |
| 20   | 56544, 56545, 56546, 56547, 56548, 56549, 56550, 56551, 56552, 56553, 56554, 56556, 56557, 56558, 56559, 56560, 56561, 56562, 56563, 56564                                                                                                                                                                                                                                                                                                                                                                             | Llaves Tamper Torx / Tamper Torx keys                                                      |      |
|      | 69504                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Magnetizador-desmagnetizador / Magnetizer-demagnetizer                                     |      |
|      | 65874                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                            | 1/4" |
|      | 65875                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Mango articulado / Swivel handle                                                           | 3/8" |
| 1    | 61441                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                            | 1/2" |
|      | 61438                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                            | 1/4" |
|      | 61439                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Mango corredizo en T / Sliding "T" handle                                                  | 3/8" |
|      | 61440                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                            | 1/2" |
| 15   | 55326, 69521, 69601, 69603, 69605, 69610, 69612, 69614, 69617, 69618, 69620, 69675, 69681, 69701, 69712                                                                                                                                                                                                                                                                                                                                                                                                                | Martillos / Hammers                                                                        |      |
| 5    | 68043, 68048, 68050, 68051, 68056                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Muelles curvabutos / Spring tube benders                                                   |      |
| 1    | 69525                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Navajas / Penknives                                                                        | -    |
|      | 65158                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Nivel magnético torpedo / Torpedo Magnetic level                                           |      |
| 4    | 69530, 69531, 69532, 69533                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Pinzas / Tweezers                                                                          |      |
|      | 55265                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Punta portavasos / Socket holder bit                                                       | 1/4" |
| 1    | 61695                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                            |      |
|      | 61696                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Puntas adaptadoras para vasos / Adapter bits for sockets                                   | 3/8" |
|      | 61697                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                            | 1/2" |
| 64   | 53000, 53001, 53002, 53003, 53004, 53005, 53006, 53007, 53008, 53009, 53010, 53011, 53015, 53016, 53017, 53019, 53020, 53021, 53023, 53024, 53025, 53027, 53028, 53029, 53030, 53031, 53032, 53034, 53035, 53036, 53037, 53038, 53039, 53051, 53052, 53053, 53054, 53055, 53056, 53057, 53058, 53059, 53060, 55670, 55671, 55672, 55673, 55674, 55675, 55676, 55677, 55678, 55679, 58900, 66733, 66734, 66735, 66736, 66737, 66738, 66739, 66740, 66741, 66742                                                         |                                                                                            | 1/4" |
| 65   | 53065, 53066, 53067, 53068, 53069, 53070, 53071, 53072, 53074, 53075, 53076, 53078, 53079, 53080, 53082, 53083, 53084, 53086, 53087, 53088, 53089, 53098, 53099, 53100, 53101, 53102, 53103, 55680, 55681, 55682, 55683, 55684, 55685, 55686, 55687, 56975, 56976, 56977, 56978, 56979, 56980, 56981, 56982, 56985, 56986, 56987, 56988, 56989, 56990, 56991, 56992, 56993, 58896, 58897, 66760, 66761, 66762, 66763, 66764, 66765, 66766, 66767, 66768, 66769, 66770                                                  | Puntas atornilladoras con vaso / Socket bits                                               | 3/8" |
| 72   | 53105, 53107, 53108, 53109, 53110, 53115, 53116, 53117, 53118, 53119, 53120, 53121, 53122, 53123, 53124, 53125, 53127, 53128, 53129, 53131, 53132, 53133, 53134, 53136, 53137, 53138, 53139, 53149, 53150, 53151, 53152, 53153, 53154, 53155, 53156, 53157, 53158, 53159, 55688, 55689, 55690, 55691, 55692, 55693, 55695, 55696, 56896, 56897, 65985, 65986, 65987, 65988, 65989, 65990, 65991, 65992, 66801, 66802, 66803, 66804, 66805, 66806, 66820, 66821, 66822, 66823, 66824, 66825, 66826, 66827, 66828, 66829 |                                                                                            | 1/2" |

| PCS. | Composición / Composition / Composition                              | Descripción / Description / Description                       |        |
|------|----------------------------------------------------------------------|---------------------------------------------------------------|--------|
|      | 65783                                                                | Punzón / Awl                                                  |        |
| 1    | 65601                                                                | Recogedor telescópico / Telescopic joint pick up              |        |
|      | 65831                                                                | Reglas / Rulers                                               |        |
| 10   | 64671, 64672, 64673, 64674, 64675, 64676, 64677, 64678, 64679, 64680 | Sacabocados / Hollow punches                                  |        |
| 2    | 69570, 69572                                                         | Sargentos / Clamps                                            |        |
| 8    | 62123, 62125, 62145, 62146, 62177, 62284, 62793, 62795               | Tenazas / Pincers                                             |        |
| 3    | 62169, 62170, 62171                                                  | Tijeras / Tin snips                                           |        |
|      | 69534                                                                | Tijeras electricista / Electrician's scissors                 |        |
| 1    | 65846                                                                | Vaso adaptador para puntas / Square drive bit retainer        | 1/4"   |
|      | 87628                                                                | Limpiador multiusos / Multi-purpose cleaner                   | 250 ml |
|      | 63988                                                                | Cinta de señalización de seguridad / Safety hazard signs tape | -      |

**EGGA** *Master*

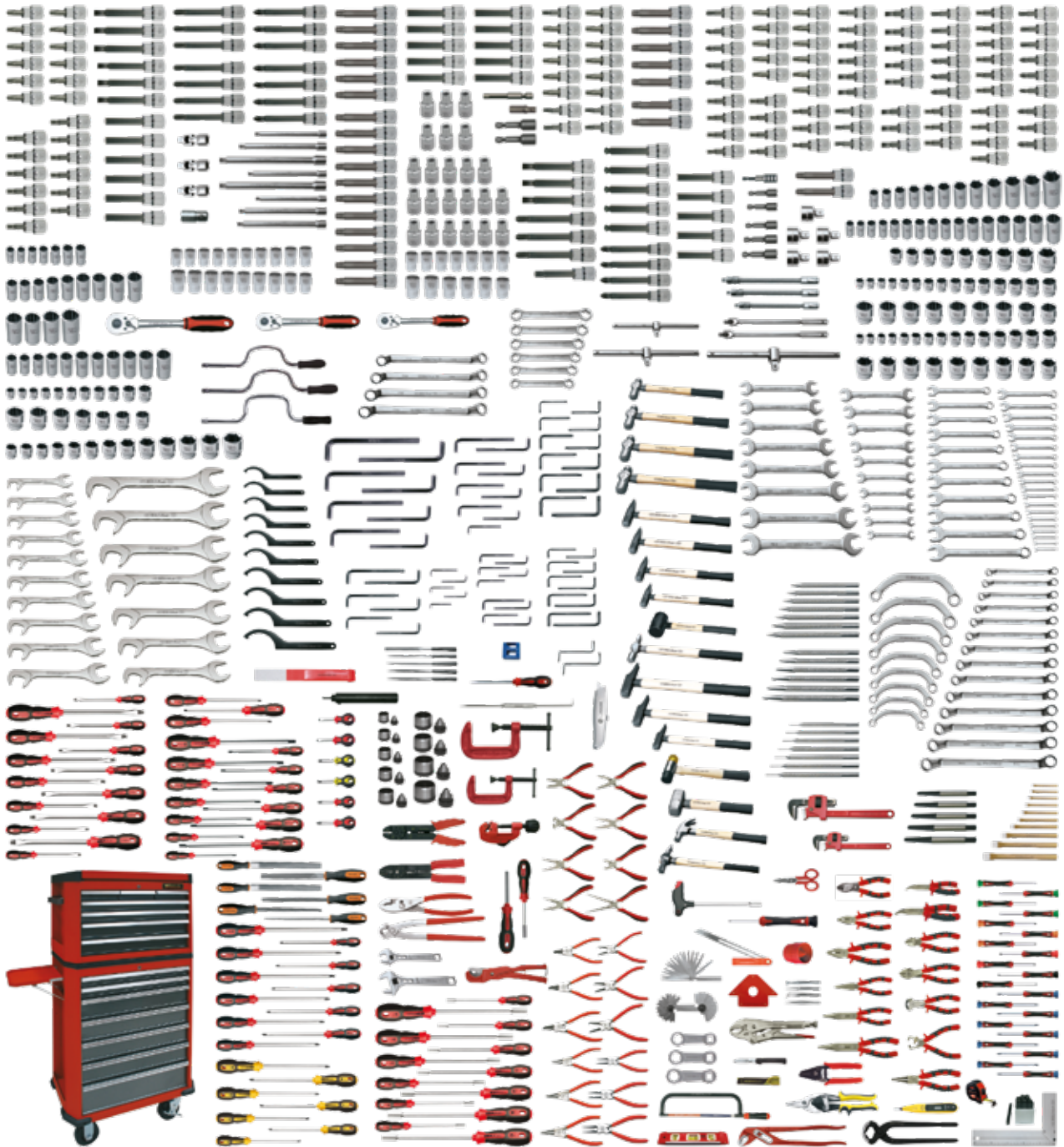
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ART IN INNOVATION



■ ≈ 800 PCS.

■ MM

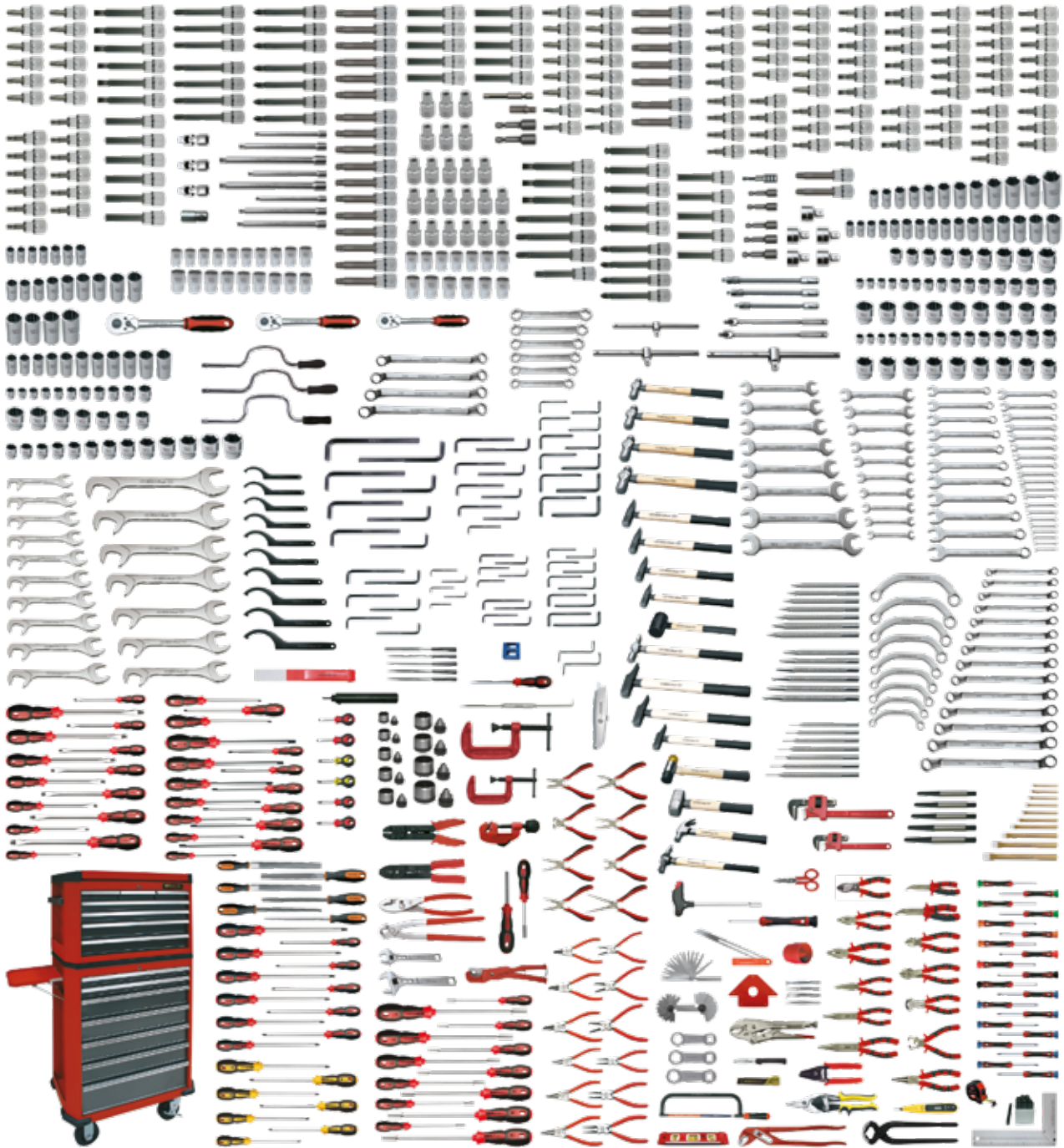





| COD.  | PCS. |       | Medidas en / Sizes in / Mesures en |   |     |
|-------|------|-------|------------------------------------|---|-----|
|       |      |       | mm                                 |   |     |
| 51683 |      | -     |                                    |   | 100 |
| 51684 | 802  | 51117 | mm                                 |   | 230 |
| 51685 |      | 51074 |                                    | ● | 360 |

| PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                     | Descripción / Description / Description                     |      |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------|
| 1    | 65880                                                                                                                                                                                                                                                                                                       |                                                             | 1/4" |
| 2    | 65881, 65884                                                                                                                                                                                                                                                                                                | Adaptador para llaves de vaso / Adapter for socket wrenches | 3/8" |
|      | 65882, 65885                                                                                                                                                                                                                                                                                                |                                                             | 1/2" |
| 3    | 57315, 57316, 57317                                                                                                                                                                                                                                                                                         | Adaptadores de par / Torque adapters                        | 3/8" |
| 1    | 66264                                                                                                                                                                                                                                                                                                       | Adaptadores portapuntas magnéticos / Magnetic bit holders   | 1/4" |
|      | 65603                                                                                                                                                                                                                                                                                                       | Agujas de trazar / Scribers                                 | -    |
|      | 61442, 61443, 61444, 61445                                                                                                                                                                                                                                                                                  |                                                             | 1/4" |
| 4    | 61447, 61450, 62118, 62732                                                                                                                                                                                                                                                                                  | Alargaderas / Extensions                                    | 3/8" |
|      | 61453, 61455, 61458, 62119                                                                                                                                                                                                                                                                                  |                                                             | 1/2" |
| 12   | 62331, 62333, 62337, 62339, 62340, 62341, 62342, 62343, 62344, 62346, 62349                                                                                                                                                                                                                                 | Alicates / Pliers                                           |      |
|      | 62180, 62181, 62182, 62183, 62215, 62216, 62219, 62220, 62223, 62224, 62227, 62228                                                                                                                                                                                                                          | Alicates Circlips / Circlips pliers                         |      |
| 2    | 62493, 62494                                                                                                                                                                                                                                                                                                | Alicates de terminales / Crimping pliers                    |      |
| 9    | 62241, 62242, 62243, 62244, 62245, 62246, 62247, 62248, 62249                                                                                                                                                                                                                                               | Alicates mini / Mini Pliers                                 | -    |
|      | 62092                                                                                                                                                                                                                                                                                                       | Alicates tipo Ford / Slip joint pliers                      |      |
|      | 63745                                                                                                                                                                                                                                                                                                       | Arcos de sierra / Hack saws                                 |      |
|      | 61435                                                                                                                                                                                                                                                                                                       |                                                             | 1/4" |
| 1    | 61436                                                                                                                                                                                                                                                                                                       | Articulación universal / Universal joint                    | 3/8" |
|      | 61437                                                                                                                                                                                                                                                                                                       |                                                             | 1/2" |
|      | 61408                                                                                                                                                                                                                                                                                                       |                                                             | 1/4" |
|      | 61409                                                                                                                                                                                                                                                                                                       | Berbiquí / Speeder Handle                                   | 3/8" |
|      | 61434                                                                                                                                                                                                                                                                                                       |                                                             | 1/2" |
| 14   | 63387, 63388, 63389, 63390, 63391, 63392, 63393, 63408, 63409, 63410, 63411, 63412, 63413, 63414                                                                                                                                                                                                            | Botadores / Punches                                         |      |
| 1    | 66074                                                                                                                                                                                                                                                                                                       | Buscapolos / Voltage tester                                 |      |
| 11   | 62847, 62848, 62849, 62850, 62853, 62854, 62855, 62856, 62857, 62858, 63472                                                                                                                                                                                                                                 | Cinceles / Chisels                                          |      |
| 1    | 63915                                                                                                                                                                                                                                                                                                       | Cortabridas / Plastic tie cutters                           | -    |
|      | 69501                                                                                                                                                                                                                                                                                                       | Cortadores / Cutters                                        |      |
| 2    | 63170, 63199                                                                                                                                                                                                                                                                                                | Cortatubos / Tube cutters                                   |      |
| 1    | 66732                                                                                                                                                                                                                                                                                                       | Destornillador portavasos / Socket holder                   | 1/4" |
| 2    | 57681, 57682                                                                                                                                                                                                                                                                                                | Destornilladores acodados / Offset screwdrivers             |      |
| 4    | 66525, 66526, 66527, 66529                                                                                                                                                                                                                                                                                  | Destornilladores carroceros / Stubby screwdrivers           |      |
| 13   | 66509, 66510, 66511, 66512, 66513, 66514, 66515, 66516, 66517, 66518, 66519, 66520, 66521                                                                                                                                                                                                                   | Destornilladores de vaso / Socket screwdrivers              |      |
| 11   | 66411, 66412, 66420, 66421, 66422, 66423, 66424, 66425, 66426, 66427, 66428                                                                                                                                                                                                                                 | Destornilladores electricista / Electrician screwdrivers    |      |
| 14   | 66399, 66400, 66401, 66402, 66403, 66404, 66405, 66406, 66407, 66408, 66409, 66410, 66448, 66449                                                                                                                                                                                                            | Destornilladores mecánicos / Slotted screwdrivers           |      |
| 20   | 57684, 66846, 66847, 66848, 66849, 66850, 66851, 66852, 66853, 66854, 57685, 66864, 66865, 66866, 66867, 66868, 66869, 66870, 66871, 66872                                                                                                                                                                  | Destornilladores Microtronic / Microtronic screwdrivers     |      |
| 8    | 66437, 66438, 66439, 66440, 66441, 66442, 66443, 67192                                                                                                                                                                                                                                                      | Destornilladores Phillips® / Phillips® screwdrivers         |      |
| 2    | 66249, 66731                                                                                                                                                                                                                                                                                                | Destornilladores portapuntas / Bitholder screwdrivers       |      |
| 8    | 66456, 66457, 66458, 66459, 66460, 66472, 66473, 67193                                                                                                                                                                                                                                                      | Destornilladores Pozidriv® / Pozidriv® screwdrivers         |      |
| 3    | 66530, 66531, 66532                                                                                                                                                                                                                                                                                         | Destornilladores Robertson / Screwdrivers Robertson         |      |
| 13   | 66487, 66488, 66489, 66490, 66491, 66492, 66493, 66494, 66495, 66496, 66497, 66498, 66499                                                                                                                                                                                                                   | Destornilladores Tamper Torx / Screwdrivers Tamper Torx     |      |
| 1    | 63085                                                                                                                                                                                                                                                                                                       | Escariadores / Reamers                                      |      |
|      | 65766                                                                                                                                                                                                                                                                                                       | Escuadra magnética para soldadura / Magnetic welding square | -    |
| 2    | 65768, 65813                                                                                                                                                                                                                                                                                                | Escuadras / Squares                                         |      |
| 5    | 61586, 61587, 61588, 61589, 61590                                                                                                                                                                                                                                                                           | Extractores de tornillos / Screw extractors                 |      |
| 1    | 65171                                                                                                                                                                                                                                                                                                       | Flexómetros / Measuring tapes                               |      |
| 2    | 65559, 65571                                                                                                                                                                                                                                                                                                | Galgas / Gauges                                             |      |
| 6    | 63429, 63430, 63431, 63432, 63433, 63434                                                                                                                                                                                                                                                                    | Granetes / Center punches                                   |      |
| 1    | 65852                                                                                                                                                                                                                                                                                                       | Juegos de golpe números / Punches numbers                   |      |
| 6    | 63692, 63714, 63715, 63717, 63718, 63719                                                                                                                                                                                                                                                                    | Limas / Files                                               |      |
| 1    | 58641                                                                                                                                                                                                                                                                                                       | Linternas / Flashlights                                     |      |
| 18   | 61774, 61775, 61776, 61777, 61778, 61779, 61780, 61781, 61782, 61783, 61784, 61785, 61786, 61787, 67843, 67844, 67845, 67855                                                                                                                                                                                | Llaves acodadas / Double offset ring wrenches               |      |
| 2    | 61112, 61213                                                                                                                                                                                                                                                                                                | Llaves ajustables / Adjustable wrenches                     |      |
| 31   | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736, 61737, 61738, 61739, 61740, 61741, 61742, 61743, 61744, 61745, 61746, 61747, 61748, 61749, 61750, 63965, 63966, 63967, 67880, 67881                                                                                     | Llaves combinadas / Combination wrenches                    |      |
|      | 62603                                                                                                                                                                                                                                                                                                       |                                                             | 1/4" |
| 1    | 62604                                                                                                                                                                                                                                                                                                       | Llaves de carraca reversible / Reversible ratchet handles   | 3/8" |
|      | 62606                                                                                                                                                                                                                                                                                                       |                                                             | 1/2" |
| 10   | 68283, 68284, 68285, 68286, 68287, 68288, 68289, 68290, 68291, 68292                                                                                                                                                                                                                                        | Llaves de gancho / Hook spanners                            | -    |
| 41   | 55813, 55814, 56015, 56017, 56018, 56019, 56020, 56021, 56023, 56024, 56025, 56026, 56027, 57165, 57166, 57167, 57168, 57169, 57170, 63977, 63978, 63979, 63980, 63981, 63982, 63983, 63984, 63985, 63986, 63987, 67660, 67661, 67662, 67663, 67664, 67665, 67666, 67667, 67668, 67669, 67670               | Llaves de vaso / Socket wrenches                            | 1/4" |
| 43   | 57171, 57172, 57173, 57174, 57175, 57176, 57177, 57178, 61343, 61344, 61345, 61346, 61347, 61348, 61349, 61350, 61351, 61352, 61353, 61354, 61355, 61356, 61357, 67539, 67540, 67560, 67561, 67725, 67726, 67727, 67728, 67729, 67730, 67731, 67732, 67733, 67734, 67735, 67736, 67737, 67738, 67739, 67740 |                                                             | 3/8" |

| PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Descripción / Description / Description                                           |        |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|
| 72   | 55795, 55796, 55797, 55798, 55799, 55800, 55801, 55802, 55803, 55804, 55805, 55806, 55807, 55808, 55809, 55810, 55811, 55833, 55834, 57179, 57180, 57181, 57182, 57183, 57184, 57185, 57186, 57187, 61380, 61381, 61382, 61383, 61384, 61385, 61386, 61387, 61388, 61389, 61390, 61391, 61392, 61393, 61394, 61395, 61396, 61397, 61398, 61399, 61400, 61401, 61402, 61403, 67780, 67781, 67782, 67783, 67784, 67785, 67786, 67787, 67788, 67789, 67791, 67792, 67793, 67794, 67795, 67796, 67797, 67798, 67799, 67800                                    | Llaves de vaso / Socket wrenches                                                  | 1/2"   |
| 6    | 57718, 57719, 57720, 57721, 57722, 57723                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Llaves estrella planas Torx® / Double ended flat ring spanners Torx®              |        |
| 16   | 61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708, 61709, 61710, 61711, 61712, 61713, 67917, 67963, 67967                                                                                                                                                                                                                                                                                                                                                                                                                                            | Llaves fijas / Open-end wrenches                                                  |        |
| 17   | 58520, 58521, 58522, 58523, 58524, 58525, 58526, 58527, 58528, 58529, 58530, 58531, 58532, 58533, 58534, 58535, 58536                                                                                                                                                                                                                                                                                                                                                                                                                                     | Llaves fijas micromecánicas a 15° y 75° / 15° and 75° micromech open end wrenches |        |
| 37   | 61501, 61502, 61503, 61504, 61505, 61506, 61517, 61518, 61519, 61525, 61526, 61621, 61622, 61623, 61624, 65302, 65303, 65304, 65306, 65307, 65308, 65309, 65310, 65311, 65330, 65331, 65332, 65519, 65955, 65956, 65958, 65959, 67300, 67301, 67302, 67493, 67494                                                                                                                                                                                                                                                                                         | Llaves hexagonales / Hexagonal key wrenches                                       | -      |
| 9    | 57155, 57156, 57157, 57158, 57159, 57160, 57161, 57162, 60795                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Llaves media luna / Half moon spanners                                            |        |
| 2    | 61001, 61004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Llaves Stillson / Stillson pipe wrenches                                          |        |
| 20   | 56544, 56545, 56546, 56547, 56548, 56549, 56550, 56551, 56552, 56553, 56554, 56556, 56557, 56558, 56559, 56560, 56561, 56562, 56563, 56564                                                                                                                                                                                                                                                                                                                                                                                                                | Llaves Tamper Torx / Tamper Torx keys                                             |        |
|      | 69504                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Magnetizador-desmagnetizador / Magnetizer-demagnetizer                            |        |
|      | 65874                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Mango articulado / Swivel handle                                                  | 1/4"   |
| 1    | 65875                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                   | 3/8"   |
|      | 61438                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                   | 1/4"   |
|      | 61439                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Mango correrizo en T / Sliding "T" handle                                         | 3/8"   |
|      | 61440                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                   | 1/2"   |
| 17   | 55326, 69521, 69601, 69603, 69605, 69610, 69612, 69613, 69614, 69617, 69618, 69620, 69622, 69675, 69681, 69701, 69712                                                                                                                                                                                                                                                                                                                                                                                                                                     | Martillos / Hammers                                                               |        |
| 1    | 69525                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Navajas / Penknives                                                               | -      |
|      | 65158                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Nivel magnético torpedo / Torpedo Magnetic level                                  |        |
| 4    | 69530, 69531, 69532, 69533                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Pinzas / Tweezers                                                                 |        |
| 1    | 55265                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Punta portavasos / Socket holder bit                                              |        |
| 59   | 53000, 53001, 53002, 53003, 53004, 53005, 53006, 53007, 53008, 53009, 53010, 53011, 53013, 53015, 53016, 53017, 53019, 53020, 53021, 53023, 53024, 53025, 53034, 53035, 53036, 53037, 53038, 53039, 53041, 53042, 53043, 53044, 53045, 53046, 53047, 53048, 53049, 53050, 55697, 55698, 55699, 55700, 58900, 66733, 66734, 66735, 66736, 66737, 66738, 66739, 66740, 66741, 66742, 66743, 66744, 66745, 66746, 66747, 67164                                                                                                                               |                                                                                   | 1/4"   |
| 60   | 53065, 53066, 53067, 53068, 53069, 53070, 53071, 53072, 53074, 53075, 53076, 53078, 53079, 53080, 53082, 53083, 53084, 53086, 53087, 53088, 53089, 53098, 53099, 53100, 53101, 53102, 53103, 55701, 55702, 55703, 58896, 58897, 66760, 66761, 66762, 66763, 66764, 66765, 66766, 66767, 66768, 66769, 66770, 66771, 66772, 66773, 66774, 66775, 66776, 66777, 66778, 66779, 66780, 66781, 66782, 66783, 66784, 66785, 66786, 66787                                                                                                                        | Puntas atornilladoras con vaso / Socket bits                                      | 3/8"   |
| 77   | 53105, 53107, 53108, 53109, 53110, 53115, 53116, 53117, 53118, 53119, 53120, 53121, 53122, 53123, 53124, 53125, 53127, 53128, 53129, 53131, 53132, 53133, 53134, 53136, 53137, 53138, 53139, 53149, 53150, 53151, 53152, 53153, 53154, 53155, 53156, 53157, 53158, 53159, 55704, 55705, 55706, 55707, 55708, 56896, 56897, 66801, 66802, 66803, 66804, 66805, 66806, 66807, 66808, 66809, 66810, 66811, 66812, 66813, 66814, 66815, 66816, 66817, 66818, 66819, 66820, 66821, 66822, 66823, 66824, 66825, 66826, 66827, 66828, 66829, 66842, 67213, 67214 |                                                                                   | 1/2"   |
| 8    | 57575, 57576, 66269, 66270, 66271, 66279, 66280, 66357                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Puntas Stecker / Magnetic Stecker                                                 | 1/4"   |
| 1    | 65783                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Punzón / Awl                                                                      |        |
| 10   | 64671, 64672, 64673, 64674, 64675, 64676, 64677, 64678, 64679, 64680                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Sacabocados / Hollow punches                                                      |        |
| 2    | 69570, 69572                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Sargentos / Clamps                                                                |        |
| 5    | 62123, 62146, 62177, 62284, 62795                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Tenazas / Pincers                                                                 |        |
|      | 62170                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Tijeras / Tin snips                                                               |        |
|      | 69534                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Tijeras electricista / Electrician's scissors                                     |        |
| 1    | 65846                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Vaso adaptador para puntas / Square drive bit retainer                            | 1/4"   |
|      | 87628                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Limpiador multiusos / Multi-purpose cleaner                                       | 250 ml |
|      | 63988                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Cinta de señalización de seguridad / Safety hazard signs tape                     | -      |

INCH



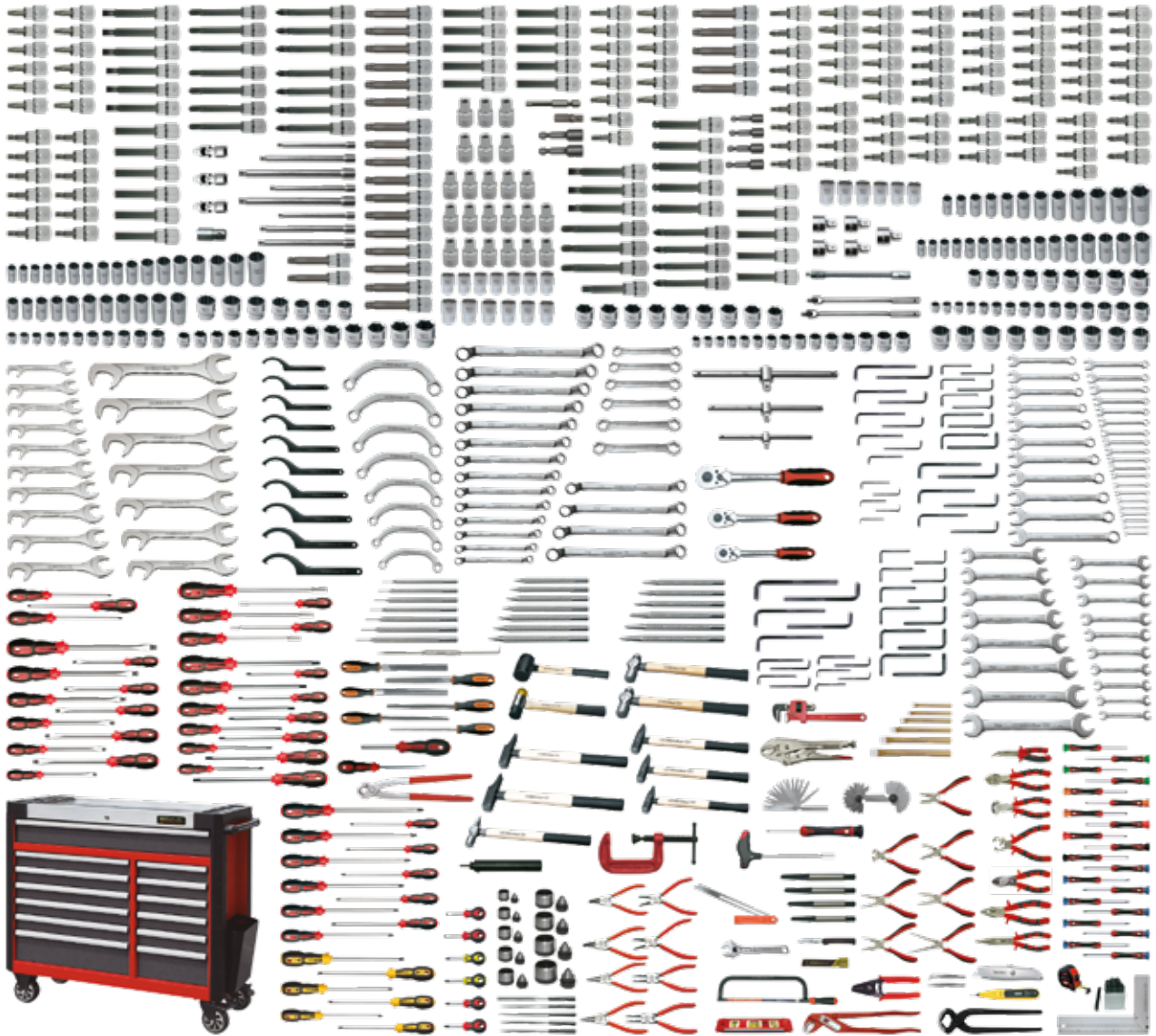
| COD.  | PCS. |  | Medidas en / Sizes in / Mesures en |  |  |
|-------|------|-------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 51686 |      |                                                                                     |                                    |                                                                                       | 95                                                                                    |
| 51687 | 802  | 51117                                                                               | inch                               |                                                                                       | 220                                                                                   |
| 51688 |      | 51074                                                                               |                                    | ●                                                                                     | 350                                                                                   |

| PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                                                                      | Descripción / Description / Description                              |      |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|------|
| 1    | 65880                                                                                                                                                                                                                                                                                                                                                        |                                                                      | 1/4" |
| 2    | 65881, 65884                                                                                                                                                                                                                                                                                                                                                 | Adaptador para llaves de vaso / Adapter for socket wrenches          | 3/8" |
|      | 65882, 65885                                                                                                                                                                                                                                                                                                                                                 |                                                                      | 1/2" |
| 4    | 66261, 66262, 66263, 66264                                                                                                                                                                                                                                                                                                                                   | Adaptadores portapuntas magnéticos / Magnetic bit holders            | 1/4" |
| 1    | 65603                                                                                                                                                                                                                                                                                                                                                        | Agujas de trazar / Scribes                                           | -    |
| 3    | 61442, 61444, 61445                                                                                                                                                                                                                                                                                                                                          |                                                                      | 1/4" |
| 5    | 61447, 61450, 61459, 62118, 62732                                                                                                                                                                                                                                                                                                                            | Alargaderas / Extensions                                             | 3/8" |
| 4    | 61453, 61455, 61458, 62119                                                                                                                                                                                                                                                                                                                                   |                                                                      | 1/2" |
| 13   | 62331, 62333, 62337, 62338, 62339, 62340, 62341, 62342, 62343, 62345, 62348, 62349, 62370                                                                                                                                                                                                                                                                    | Alicates / Pliers                                                    |      |
| 12   | 62180, 62181, 62182, 62183, 62215, 62216, 62219, 62220, 62223, 62224, 62227, 62228                                                                                                                                                                                                                                                                           | Alicates Circlips / Circlips pliers                                  |      |
| 2    | 62493, 62494                                                                                                                                                                                                                                                                                                                                                 | Alicates de terminales / Crimping pliers                             | -    |
| 9    | 62241, 62242, 62243, 62244, 62245, 62246, 62247, 62248, 62249                                                                                                                                                                                                                                                                                                | Alicates mini / Mini Pliers                                          |      |
|      | 62092                                                                                                                                                                                                                                                                                                                                                        | Alicates tipo Ford / Slip joint pliers                               |      |
|      | 63745                                                                                                                                                                                                                                                                                                                                                        | Arcos de sierra / Hack saws                                          |      |
| 1    | 61435                                                                                                                                                                                                                                                                                                                                                        |                                                                      | 1/4" |
|      | 61436                                                                                                                                                                                                                                                                                                                                                        | Articulación universal / Universal joint                             | 3/8" |
|      | 61437                                                                                                                                                                                                                                                                                                                                                        |                                                                      | 1/2" |
| 14   | 63387, 63388, 63389, 63390, 63391, 63392, 63393, 63408, 63409, 63410, 63411, 63412, 63413, 63414                                                                                                                                                                                                                                                             | Botadores / Punches                                                  |      |
| 1    | 66074                                                                                                                                                                                                                                                                                                                                                        | Buscapolos / Voltage tester                                          |      |
| 8    | 62847, 62848, 62849, 62850, 62853, 62854, 62855, 62857                                                                                                                                                                                                                                                                                                       | Cinceles / Chisels                                                   |      |
| 2    | 65622, 65627                                                                                                                                                                                                                                                                                                                                                 | Compases / Calipers                                                  | -    |
| 1    | 63915                                                                                                                                                                                                                                                                                                                                                        | Cortabridas / Plastic tie cutters                                    |      |
|      | 69501                                                                                                                                                                                                                                                                                                                                                        | Cortadores / Cutters                                                 |      |
| 3    | 63097, 63170, 63199                                                                                                                                                                                                                                                                                                                                          | Cortatubos / Tube cutters                                            |      |
| 1    | 66732                                                                                                                                                                                                                                                                                                                                                        | Destornillador portavasos / Socket holder                            | 1/4" |
| 3    | 55371, 66526, 66527                                                                                                                                                                                                                                                                                                                                          | Destornilladores carroceros / Stubby screwdrivers                    |      |
| 15   | 55372, 55373, 55374, 55375, 55376, 55378, 55379, 55380, 55382, 55383, 55385, 55397, 55399, 55401, 66518                                                                                                                                                                                                                                                      | Destornilladores de vaso / Socket screwdrivers                       |      |
| 8    | 55352, 55354, 55355, 55357, 55358, 55359, 55360, 55361                                                                                                                                                                                                                                                                                                       | Destornilladores electricista / Electrician screwdrivers             |      |
| 11   | 55328, 55329, 55330, 55331, 55332, 55333, 55334, 55335, 55337, 55338, 55341                                                                                                                                                                                                                                                                                  | Destornilladores mecánicos / Slotted screwdrivers                    |      |
| 18   | 55449, 55450, 55451, 55452, 55453, 55457, 66850, 66851, 66852, 66853, 66854, 66866, 66867, 66868, 66869, 66870, 66871, 66872                                                                                                                                                                                                                                 | Destornilladores Microtronic / Microtronic screwdrivers              |      |
| 8    | 66437, 66438, 66439, 66440, 66441, 66442, 66443, 67192                                                                                                                                                                                                                                                                                                       | Destornilladores Phillips® / Phillips® screwdrivers                  |      |
| 4    | 66249, 66731, 66843, 66844                                                                                                                                                                                                                                                                                                                                   | Destornilladores portapuntas / Bitholder screwdrivers                |      |
| 8    | 66456, 66457, 66458, 66459, 66460, 66472, 66473, 67193                                                                                                                                                                                                                                                                                                       | Destornilladores Pozidriv® / Pozidriv® screwdrivers                  |      |
| 3    | 66530, 66531, 66532                                                                                                                                                                                                                                                                                                                                          | Destornilladores Robertson / Screwdrivers Robertson                  |      |
| 13   | 66487, 66488, 66489, 66490, 66491, 66492, 66493, 66494, 66495, 66496, 66497, 66498, 66499                                                                                                                                                                                                                                                                    | Destornilladores Tamper Torx / Screwdrivers Tamper Torx              |      |
| 1    | 63085                                                                                                                                                                                                                                                                                                                                                        | Escariadores / Reamers                                               | -    |
|      | 65766                                                                                                                                                                                                                                                                                                                                                        | Escuadra magnética para soldadura / Magnetic welding square          |      |
| 2    | 65768, 65813                                                                                                                                                                                                                                                                                                                                                 | Escuadras / Squares                                                  |      |
| 8    | 61583, 61584, 61585, 61586, 61587, 61588, 61589, 61590                                                                                                                                                                                                                                                                                                       | Extractores de tornillos / Screw extractors                          |      |
| 1    | 65361                                                                                                                                                                                                                                                                                                                                                        | Flexómetros / Measuring tapes                                        |      |
| 6    | 63429, 63430, 63431, 63432, 63433, 63434                                                                                                                                                                                                                                                                                                                     | Granetes / Center punches                                            |      |
| 1    | 65852                                                                                                                                                                                                                                                                                                                                                        | Juegos de golpe números / Punches numbers                            |      |
| 11   | 63504, 63540, 63576, 63612, 63648, 63684, 63714, 63715, 63717, 63718, 63719                                                                                                                                                                                                                                                                                  | Limas / Files                                                        |      |
| 1    | 58641                                                                                                                                                                                                                                                                                                                                                        | Linternas / Flashlights                                              |      |
| 12   | 60380, 60381, 60382, 60384, 60385, 60388, 60390, 60391, 67886, 67887, 67888, 67893                                                                                                                                                                                                                                                                           | Llaves acodadas / Double offset ring wrenches                        |      |
| 2    | 61110, 61113                                                                                                                                                                                                                                                                                                                                                 | Llaves ajustables / Adjustable wrenches                              |      |
| 30   | 58460, 58461, 58462, 58463, 58464, 58465, 58466, 58467, 60340, 60341, 60342, 60343, 60344, 60345, 60346, 60347, 60348, 60349, 60350, 60351, 60352, 60353, 60354, 60355, 60356, 60358, 67878, 67885, 67953, 67954                                                                                                                                             | Llaves combinadas / Combination wrenches                             |      |
|      | 62603                                                                                                                                                                                                                                                                                                                                                        |                                                                      | 1/4" |
| 1    | 62604                                                                                                                                                                                                                                                                                                                                                        | Llaves de carraca reversible / Reversible ratchet handles            | 3/8" |
|      | 62606                                                                                                                                                                                                                                                                                                                                                        |                                                                      | 1/2" |
| 10   | 68283, 68284, 68285, 68286, 68287, 68288, 68289, 68290, 68291, 68292                                                                                                                                                                                                                                                                                         | Llaves de gancho / Hook spanners                                     | -    |
| 40   | 55813, 55814, 56015, 56017, 56018, 56019, 56020, 56021, 56023, 56024, 56025, 56026, 56027, 57165, 57166, 57167, 57168, 57169, 57170, 63989, 63990, 63991, 63992, 63993, 63994, 63995, 63996, 63997, 63998, 67689, 67690, 67691, 67692, 67693, 67694, 67695, 67696, 67697, 67698, 67699                                                                       |                                                                      | 1/4" |
| 33   | 57173, 57174, 57175, 57176, 57177, 60439, 60440, 60441, 60442, 60443, 60444, 60445, 60446, 60447, 60448, 60449, 60450, 60451, 60452, 60453, 67750, 67751, 67752, 67753, 67754, 67755, 67756, 67757, 67758, 67759, 67760, 67761, 67762                                                                                                                        | Llaves de vaso / Socket wrenches                                     | 3/8" |
| 50   | 55795, 55796, 55797, 55798, 55799, 55800, 55801, 55802, 55803, 55804, 55805, 55806, 55807, 55808, 55809, 55810, 55811, 55833, 55834, 57185, 57186, 57187, 60479, 60480, 60481, 60482, 60483, 60484, 60485, 60486, 60487, 60488, 60489, 60490, 60491, 60492, 60493, 60494, 60495, 60496, 60497, 60498, 67805, 67806, 67807, 67808, 67809, 67810, 67811, 67812 |                                                                      | 1/2" |
| 4    | 57775, 57776, 57777, 57778                                                                                                                                                                                                                                                                                                                                   | Llaves estrella planas / Double ended flat ring spanners             |      |
| 5    | 57718, 57719, 57720, 57721, 57722                                                                                                                                                                                                                                                                                                                            | Llaves estrella planas Torx® / Double ended flat ring spanners Torx® | -    |
| 25   | 60300, 60301, 60302, 60303, 60304, 60305, 60306, 60307, 60308, 60309, 60310, 60311, 60312, 60313, 60314, 60315, 67931, 67934, 67939, 67940, 67941, 67942, 67943, 67944, 67945                                                                                                                                                                                | Llaves fijas / Open-end wrenches                                     |      |

| PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Descripción / Description / Description                                           |        |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|
| 7    | 55724, 55725, 55726, 55728, 55730, 55732, 55734                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Llaves fijas Crowfoot / Open end Crowfoot wrenches                                | 3/8"   |
| 8    | 56210, 56211, 56212, 56213, 56214, 56215, 56216, 56217                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Llaves fijas extrafinas / Slim open end wrenches                                  |        |
| 13   | 58537, 58538, 58539, 58540, 58541, 58542, 58543, 58544, 58545, 58546, 58547, 58548, 58549                                                                                                                                                                                                                                                                                                                                                                                                                              | Llaves fijas micromecánicas a 15° y 75° / 15° and 75° micromech open end wrenches |        |
| 29   | 65315, 65316, 65317, 65318, 65319, 65320, 65321, 65322, 65323, 65324, 65325, 65326, 65327, 65328, 65329, 67671, 68900, 68901, 68902, 68903, 68904, 68905, 68906, 68907, 68908, 68909, 68910, 68911, 68912                                                                                                                                                                                                                                                                                                              | Llaves hexagonales / Hexagonal key wrenches                                       |        |
| 13   | 68914, 68915, 68916, 68917, 68918, 68919, 68920, 68921, 68922, 68923, 68924, 68925, 68926                                                                                                                                                                                                                                                                                                                                                                                                                              | Llaves hexagonales bola / Hexagonal key wrenches ball type                        |        |
| 6    | 57148, 57149, 57150, 57151, 57152, 57153                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Llaves media luna / Half moon spanners                                            | -      |
| 7    | 58752, 58753, 58754, 58755, 58756, 58757, 58758                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Llaves para racores / Flare nut spanners                                          |        |
| 6    | 65975, 65976, 65977, 65978, 65979, 65980                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Llaves Ribe® / Ribe® wrenches                                                     |        |
| 2    | 61001, 61004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Llaves Stillson / Stillson pipe wrenches                                          |        |
| 20   | 56544, 56545, 56546, 56547, 56548, 56549, 56550, 56551, 56552, 56553, 56554, 56556, 56557, 56558, 56559, 56560, 56561, 56562, 56563, 56564                                                                                                                                                                                                                                                                                                                                                                             | Llaves Tamper Torx / Tamper Torx keys                                             |        |
|      | 69504                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Magnetizador-desmagnetizador / Magnetizer-demagnetizer                            |        |
|      | 65874                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Mango articulado / Swivel handle                                                  | 1/4"   |
| 1    | 65875                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   | 3/8"   |
|      | 61438                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   | 1/4"   |
|      | 61439                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Mango correrizo en T / Sliding "T" handle                                         | 3/8"   |
|      | 61440                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   | 1/2"   |
| 13   | 55326, 69521, 69601, 69603, 69612, 69614, 69617, 69618, 69620, 69675, 69681, 69701, 69712                                                                                                                                                                                                                                                                                                                                                                                                                              | Martillos / Hammers                                                               |        |
| 5    | 68043, 68048, 68050, 68051, 68056                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Muelles curvatos / Spring tube benders                                            |        |
| 1    | 69525                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Navajas / Penknives                                                               | -      |
|      | 65158                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Nivel magnético torpedo / Torpedo Magnetic level                                  |        |
| 4    | 69530, 69531, 69532, 69533                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Pinzas / Tweezers                                                                 |        |
|      | 55265                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Punta portavasos / Socket holder bit                                              | 1/4"   |
| 1    | 61695                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   |        |
|      | 61696                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Puntas adaptadoras para vasos / Adapter bits for sockets                          | 3/8"   |
|      | 61697                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   | 1/2"   |
| 64   | 53000, 53001, 53002, 53003, 53004, 53005, 53006, 53007, 53008, 53009, 53010, 53011, 53015, 53016, 53017, 53019, 53020, 53021, 53023, 53024, 53025, 53027, 53028, 53029, 53030, 53031, 53032, 53034, 53035, 53036, 53037, 53038, 53039, 53051, 53052, 53053, 53054, 53055, 53056, 53057, 53058, 53059, 53060, 55670, 55671, 55672, 55673, 55674, 55675, 55676, 55677, 55678, 55679, 58900, 66733, 66734, 66735, 66736, 66737, 66738, 66739, 66740, 66741, 66742                                                         |                                                                                   | 1/4"   |
| 65   | 53065, 53066, 53067, 53068, 53069, 53070, 53071, 53072, 53074, 53075, 53076, 53078, 53079, 53080, 53082, 53083, 53084, 53086, 53087, 53088, 53089, 53098, 53099, 53100, 53101, 53102, 53103, 55680, 55681, 55682, 55683, 55684, 55685, 55686, 55687, 56975, 56976, 56977, 56978, 56979, 56980, 56981, 56982, 56985, 56986, 56987, 56988, 56989, 56990, 56991, 56992, 56993, 58896, 58897, 66760, 66761, 66762, 66763, 66764, 66765, 66766, 66767, 66768, 66769, 66770                                                  | Puntas atornilladoras con vaso / Socket bits                                      | 3/8"   |
| 72   | 53105, 53107, 53108, 53109, 53110, 53115, 53116, 53117, 53118, 53119, 53120, 53121, 53122, 53123, 53124, 53125, 53127, 53128, 53129, 53131, 53132, 53133, 53134, 53136, 53137, 53138, 53139, 53149, 53150, 53151, 53152, 53153, 53154, 53155, 53156, 53157, 53158, 53159, 55688, 55689, 55690, 55691, 55692, 55693, 55695, 55696, 56896, 56897, 65985, 65986, 65987, 65988, 65989, 65990, 65991, 65992, 66801, 66802, 66803, 66804, 66805, 66806, 66820, 66821, 66822, 66823, 66824, 66825, 66826, 66827, 66828, 66829 |                                                                                   | 1/2"   |
|      | 65783                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Punzón / Awl                                                                      |        |
| 1    | 65601                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Recogedor telescópico / Telescopic joint pick up                                  |        |
|      | 65831                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Reglas / Rulers                                                                   |        |
| 10   | 64671, 64672, 64673, 64674, 64675, 64676, 64677, 64678, 64679, 64680                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Sacabocados / Hollow punches                                                      |        |
| 2    | 69570, 69572                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Sargentos / Clamps                                                                |        |
| 5    | 62123, 62145, 62177, 62284, 62795                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Tenazas / Pincers                                                                 |        |
| 3    | 62169, 62170, 62171                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Tijeras / Tin snips                                                               |        |
|      | 69534                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Tijeras electricista / Electrician's scissors                                     |        |
| 1    | 65846                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Vaso adaptador para puntas / Square drive bit retainer                            | 1/4"   |
|      | 87628                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Limpiador multiusos / Multi-purpose cleaner                                       | 250 ml |
|      | 63988                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Cinta de señalización de seguridad / Safety hazard signs tape                     | -      |

■ ≈ 700 PCS.

■ MM



| COD.  | PCS. |              | Medidas en / Sizes in / Mesures en |     |
|-------|------|--------------|------------------------------------|-----|
| 51689 |      | -            |                                    | 75  |
| 51690 | 713  | 50954        | mm                                 | 185 |
| 51691 |      | 51039, 51117 |                                    | 270 |

| PCS. | Composición / Composition / Composition                | Descripción / Description / Description                     |      |
|------|--------------------------------------------------------|-------------------------------------------------------------|------|
| 1    | 65880                                                  |                                                             | 1/4" |
| 2    | 65881, 65884                                           | Adaptador para llaves de vaso / Adapter for socket wrenches | 3/8" |
|      | 65882, 65885                                           |                                                             | 1/2" |
| 1    | 65603                                                  | Agujas de trazar / Scribers                                 | -    |
| 4    | 61442, 61443, 61444, 61445                             |                                                             | 1/4" |
| 3    | 61447, 61450, 62732                                    | Alargaderas / Extensions                                    | 3/8" |
|      | 61453, 61455, 61458                                    |                                                             | 1/2" |
| 6    | 62331, 62339, 62341, 62343, 62346, 62349               | Alicates / Pliers                                           |      |
| 8    | 62180, 62181, 62182, 62183, 62216, 62220, 62224, 62228 | Alicates Circlips / Circlips pliers                         |      |
|      | 62241, 62242, 62243, 62244, 62245, 62246, 62247, 62249 | Alicates mini / Mini Pliers                                 |      |
|      | 63745                                                  | Arcos de sierra / Hack saws                                 |      |
| 1    | 61435                                                  | Articulación universal / Universal joint                    | 1/4" |

| PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Descripción / Description / Description                                           |      |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|
| 1    | 61436                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Articulación universal / Universal joint                                          | 3/8" |
|      | 61437                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                   | 1/2" |
| 14   | 63387, 63388, 63389, 63390, 63391, 63392, 63393, 63408, 63409, 63410, 63411, 63412, 63413, 63414                                                                                                                                                                                                                                                                                                                                                                                                  | Botadores / Punches                                                               |      |
| 1    | 66074                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Buscapolos / Voltage tester                                                       |      |
| 6    | 62847, 62848, 62849, 62850, 62853, 62854                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Cinceles / Chisels                                                                | -    |
|      | 63915                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Cortabridas / Plastic tie cutters                                                 |      |
| 1    | 69501                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Cortadores / Cutters                                                              |      |
|      | 66732                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Destornillador portavasos / Socket holder                                         | 1/4" |
| 4    | 66525, 66526, 66527, 66529                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Destornilladores carroceros / Stubby screwdrivers                                 |      |
| 5    | 66509, 66510, 66511, 66512, 66513                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Destornilladores de vaso / Socket screwdrivers                                    |      |
| 11   | 66411, 66412, 66420, 66421, 66422, 66423, 66424, 66425, 66426, 66427, 66428                                                                                                                                                                                                                                                                                                                                                                                                                       | Destornilladores electricista / Electrician screwdrivers                          |      |
|      | 66399, 66400, 66401, 66402, 66403, 66404, 66405, 66406, 66407, 66408, 66448                                                                                                                                                                                                                                                                                                                                                                                                                       | Destornilladores mecánicos / Slotted screwdrivers                                 |      |
| 20   | 57684, 66846, 66847, 66848, 66849, 66850, 66851, 66852, 66853, 66854, 57685, 66864, 66865, 66866, 66867, 66868, 66869, 66870, 66871, 66872                                                                                                                                                                                                                                                                                                                                                        | Destornilladores Microtronic / Microtronic screwdrivers                           |      |
| 8    | 66437, 66438, 66439, 66440, 66441, 66442, 66443, 67192                                                                                                                                                                                                                                                                                                                                                                                                                                            | Destornilladores Phillips® / Phillips® screwdrivers                               |      |
| 1    | 66249                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Destornilladores portapuntas / Bitholder screwdrivers                             |      |
| 7    | 66456, 66457, 66458, 66459, 66472, 66473, 67193                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Destornilladores Pozidriv® / Pozidriv® screwdrivers                               |      |
| 3    | 66530, 66531, 66532                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Destornilladores Robertson / Screwdrivers Robertson                               |      |
| 12   | 66487, 66488, 66489, 66490, 66491, 66492, 66493, 66494, 66495, 66496, 66497, 66498                                                                                                                                                                                                                                                                                                                                                                                                                | Destornilladores Tamper Torx / Screwdrivers Tamper Torx                           |      |
| 2    | 65768, 65813                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Escuadras / Squares                                                               |      |
| 4    | 61586, 61587, 61588, 61589                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Extractores de tornillos / Screw extractors                                       | -    |
| 1    | 65171                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Flexómetros / Measuring tapes                                                     |      |
| 2    | 65559, 65571                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Galgas / Gauges                                                                   |      |
| 6    | 63429, 63430, 63431, 63432, 63433, 63434                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Granetes / Center punches                                                         |      |
| 1    | 65852                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Juegos de golpe números / Punches numbers                                         |      |
| 6    | 63692, 63714, 63715, 63717, 63718, 63719                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Limas / Files                                                                     |      |
| 1    | 58641                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Linternas / Flashlights                                                           |      |
| 18   | 61774, 61775, 61776, 61777, 61778, 61779, 61780, 61781, 61782, 61783, 61784, 61785, 61786, 61787, 67843, 67844, 67845, 67855                                                                                                                                                                                                                                                                                                                                                                      | Llaves acodadas / Double offset ring wrenches                                     |      |
| 1    | 61112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Llaves ajustables / Adjustable wrenches                                           |      |
| 31   | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736, 61737, 61738, 61739, 61740, 61741, 61742, 61743, 61744, 61745, 61746, 61747, 61748, 61749, 61750, 63965, 63966, 63967, 67880, 67881                                                                                                                                                                                                                                                                           | Llaves combinadas / Combination wrenches                                          |      |
| 1    | 62603                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                   | 1/4" |
| 1    | 62604                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Llaves de carraca reversible / Reversible ratchet handles                         | 3/8" |
|      | 62606                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                   | 1/2" |
| 10   | 68283, 68284, 68285, 68286, 68287, 68288, 68289, 68290, 68291, 68292                                                                                                                                                                                                                                                                                                                                                                                                                              | Llaves de gancho / Hook spanners                                                  | -    |
| 28   | 57165, 57166, 57167, 57168, 57169, 57170, 63977, 63978, 63979, 63980, 63981, 63982, 63983, 63984, 63985, 63986, 63987, 67660, 67661, 67662, 67663, 67664, 67665, 67666, 67667, 67668, 67669, 67670                                                                                                                                                                                                                                                                                                |                                                                                   | 1/4" |
| 43   | 57171, 57172, 57173, 57174, 57175, 57176, 57177, 57178, 61343, 61344, 61345, 61346, 61347, 61348, 61349, 61350, 61351, 61352, 61353, 61354, 61355, 61356, 61357, 67539, 67540, 67560, 67561, 67725, 67726, 67727, 67728, 67729, 67730, 67731, 67732, 67733, 67734, 67735, 67736, 67737, 67738, 67739, 67740                                                                                                                                                                                       | Llaves de vaso / Socket wrenches                                                  | 3/8" |
| 69   | 55795, 55796, 55797, 55798, 55799, 55800, 55801, 55802, 55803, 55804, 55805, 55806, 55807, 55808, 55809, 55810, 55811, 55833, 55834, 57179, 57180, 57181, 57182, 57183, 57184, 57185, 57186, 57187, 61380, 61381, 61382, 61383, 61384, 61385, 61386, 61387, 61388, 61389, 61390, 61391, 61392, 61393, 61394, 61395, 61396, 61397, 61398, 61399, 61400, 61401, 61402, 61403, 67780, 67781, 67782, 67783, 67784, 67785, 67786, 67787, 67788, 67789, 67791, 67792, 67793, 67794, 67795, 67796, 67797 |                                                                                   | 1/2" |
| 6    | 57718, 57719, 57720, 57721, 57722, 57723                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Llaves estrella planas Torx® / Double ended flat ring spanners Torx®              |      |
| 16   | 61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708, 61709, 61710, 61711, 61712, 61713, 67917, 67963, 67967                                                                                                                                                                                                                                                                                                                                                                                    | Llaves fijas / Open-end wrenches                                                  |      |
| 17   | 58520, 58521, 58522, 58523, 58524, 58525, 58526, 58527, 58528, 58529, 58530, 58531, 58532, 58533, 58534, 58535, 58536                                                                                                                                                                                                                                                                                                                                                                             | Llaves fijas micromecánicas a 15° y 75° / 15° and 75° micromech open end wrenches |      |
| 34   | 61501, 61502, 61503, 61504, 61505, 61506, 61517, 61518, 61519, 61525, 61526, 61621, 61622, 61623, 61624, 65302, 65303, 65304, 65306, 65307, 65308, 65309, 65310, 65311, 65330, 65331, 65332, 65519, 65955, 65956, 65958, 67300, 67493, 67494                                                                                                                                                                                                                                                      | Llaves hexagonales / Hexagonal key wrenches                                       | -    |
| 8    | 57155, 57156, 57158, 57159, 57160, 57161, 57162, 60795                                                                                                                                                                                                                                                                                                                                                                                                                                            | Llaves media luna / Half moon spanners                                            |      |
| 1    | 61001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Llaves Stillson / Stillson pipe wrenches                                          |      |
| 20   | 56544, 56545, 56546, 56547, 56548, 56549, 56550, 56551, 56552, 56553, 56554, 56556, 56557, 56558, 56559, 56560, 56561, 56562, 56563, 56564                                                                                                                                                                                                                                                                                                                                                        | Llaves Tamper Torx / Tamper Torx keys                                             |      |
|      | 65874                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                   | 1/4" |
|      | 65875                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Mango articulado / Swivel handle                                                  | 3/8" |
| 1    | 61438                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                   | 1/4" |
|      | 61439                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Mango corredizo en T / Sliding "T" handle                                         | 3/8" |

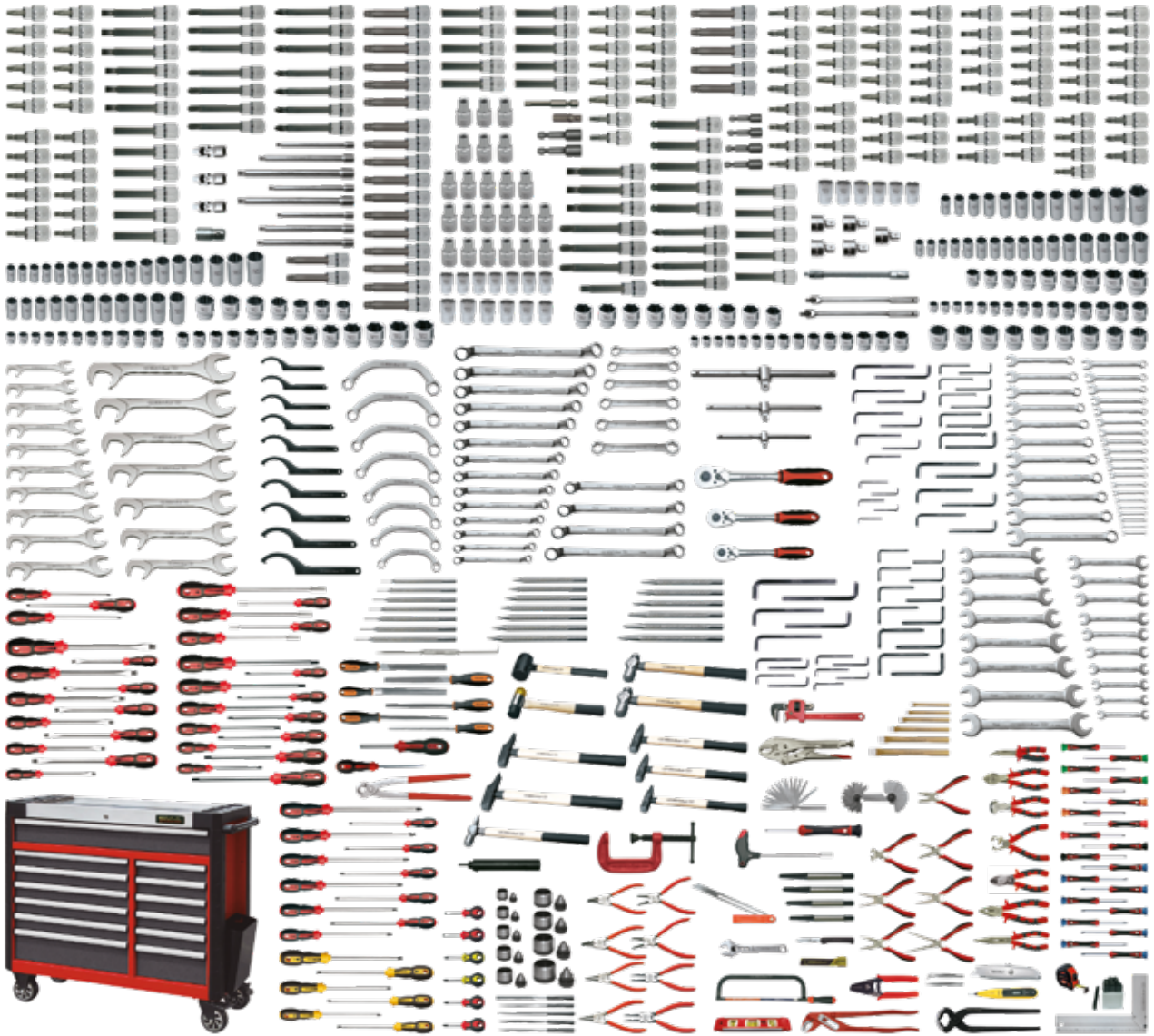


| PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Descripción / Description / Description                       |        |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------|
| 1    | 61440                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Mango correzido en T / Sliding "T" handle                     | 1/2"   |
| 10   | 55326, 69521, 69601, 69612, 69614, 69618, 69620, 69622, 69681, 69701                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Martillos / Hammers                                           |        |
| 1    | 69525                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Navajas / Penknives                                           |        |
| 1    | 65158                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Nivel magnético torpedo / Torpedo Magnetic level              | -      |
| 2    | 69530, 69531                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Pinzas / Tweezers                                             |        |
| 1    | 55265                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Punta portavasos / Socket holder bit                          |        |
| 59   | 53000, 53001, 53002, 53003, 53004, 53005, 53006, 53007, 53008, 53009, 53010, 53011, 53013, 53015, 53016, 53017, 53019, 53020, 53021, 53023, 53024, 53025, 53034, 53035, 53036, 53037, 53038, 53039, 53041, 53042, 53043, 53044, 53045, 53046, 53047, 53048, 53049, 53050, 55697, 55698, 55699, 55700, 58900, 66733, 66734, 66735, 66736, 66737, 66738, 66739, 66740, 66741, 66742, 66743, 66744, 66745, 66746, 66747, 67164                                                                                                   |                                                               | 1/4"   |
| 60   | 53065, 53066, 53067, 53068, 53069, 53070, 53071, 53072, 53074, 53075, 53076, 53078, 53079, 53080, 53082, 53083, 53084, 53086, 53087, 53088, 53089, 53098, 53099, 53100, 53101, 53102, 53103, 55701, 55702, 55703, 58896, 58897, 66760, 66761, 66762, 66763, 66764, 66765, 66766, 66767, 66768, 66769, 66770, 66771, 66772, 66773, 66774, 66775, 66776, 66777, 66778, 66779, 66780, 66781, 66782, 66783, 66784, 66785, 66786, 66787                                                                                            | Puntas atornilladoras con vaso / Socket bits                  | 3/8"   |
| 73   | 53105, 53107, 53108, 53109, 53110, 53115, 53116, 53117, 53118, 53119, 53120, 53121, 53122, 53123, 53127, 53128, 53129, 53131, 53132, 53133, 53134, 53136, 53137, 53138, 53139, 53149, 53150, 53151, 53152, 53153, 53154, 53155, 53156, 53157, 53158, 55704, 55705, 55706, 55707, 55708, 56896, 66801, 66802, 66803, 66804, 66805, 66806, 66807, 66808, 66809, 66810, 66811, 66812, 66813, 66814, 66815, 66816, 66817, 66818, 66819, 66820, 66821, 66822, 66823, 66824, 66825, 66826, 66827, 66828, 66829, 66842, 67213, 67214 |                                                               | 1/2"   |
| 7    | 57575, 57576, 66269, 66270, 66271, 66279, 66280                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Puntas Stecker / Magnetic Stecker                             | 1/4"   |
| 1    | 65783                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Punzón / Awl                                                  |        |
| 10   | 64671, 64672, 64673, 64674, 64675, 64676, 64677, 64678, 64679, 64680                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sacabocados / Hollow punches                                  |        |
| 1    | 69570                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sargentos / Clamps                                            | -      |
| 5    | 62123, 62146, 62177, 62284, 62795                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Tenazas / Pincers                                             |        |
| 1    | 65846                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Vaso adaptador para puntas / Square drive bit retainer        | 1/4"   |
| 1    | 87628                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Limpiador multiusos / Multi-purpose cleaner                   | 250 ml |
|      | 63988                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Cinta de señalización de seguridad / Safety hazard signs tape | -      |

# EGGA Master

## ART IN INNOVATION

INCH



| COD.  | PCS. | Medidas en / Sizes in / Mesures en | Kg  |
|-------|------|------------------------------------|-----|
| 51692 | -    | -                                  | 75  |
| 51693 | 704  | 50954                              | 185 |
| 51694 | -    | 51039, 51117                       | 270 |

| PCS. | Composición / Composition / Composition                       | Descripción / Description / Description                     |      |
|------|---------------------------------------------------------------|-------------------------------------------------------------|------|
| 1    | 65880                                                         |                                                             | 1/4" |
| 2    | 65881, 65884                                                  | Adaptador para llaves de vaso / Adapter for socket wrenches | 3/8" |
|      | 65882, 65885                                                  |                                                             | 1/2" |
| 1    | 65603                                                         | Agujas de trazar / Scribers                                 | -    |
| 3    | 61442, 61444, 61445                                           |                                                             | 1/4" |
| 4    | 61447, 61450, 61459, 62732                                    | Alargaderas / Extensions                                    | 3/8" |
| 3    | 61453, 61455, 61458                                           |                                                             | 1/2" |
| 8    | 62331, 62337, 62338, 62339, 62341, 62343, 62345, 62349        | Alicates / Pliers                                           |      |
|      | 62180, 62181, 62182, 62183, 62216, 62220, 62224, 62228        | Alicates Circlips / Circlips pliers                         |      |
| 9    | 62241, 62242, 62243, 62244, 62245, 62246, 62247, 62248, 62249 | Alicates mini / Mini Pliers                                 | -    |
|      | 62092                                                         | Alicates tipo Ford / Slip joint pliers                      |      |
| 1    | 63745                                                         | Arcos de sierra / Hack saws                                 |      |
|      | 61435                                                         |                                                             | 1/4" |
|      | 61436                                                         | Articulación universal / Universal joint                    | 3/8" |

| PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                                                                      | Descripción / Description / Description                                           |      |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|
| 1    | 61437                                                                                                                                                                                                                                                                                                                                                        | Articulación universal / Universal joint                                          | 1/2" |
| 14   | 63387, 63388, 63389, 63390, 63391, 63392, 63393, 63408, 63409, 63410, 63411, 63412, 63413, 63414                                                                                                                                                                                                                                                             | Botadores / Punches                                                               |      |
| 1    | 66074                                                                                                                                                                                                                                                                                                                                                        | Buscapolos / Voltage tester                                                       |      |
| 6    | 62847, 62848, 62849, 62850, 62853, 62854                                                                                                                                                                                                                                                                                                                     | Cinceles / Chisels                                                                |      |
|      | 63915                                                                                                                                                                                                                                                                                                                                                        | Cortabridas / Plastic tie cutters                                                 |      |
| 1    | 69501                                                                                                                                                                                                                                                                                                                                                        | Cortadores / Cutters                                                              |      |
|      | 66732                                                                                                                                                                                                                                                                                                                                                        | Destornillador portavasos / Socket holder                                         | 1/4" |
| 3    | 55371, 66526, 66527                                                                                                                                                                                                                                                                                                                                          | Destornilladores carroceros / Stubby screwdrivers                                 |      |
| 8    | 55352, 55354, 55355, 55357, 55358, 55359, 55360, 55361                                                                                                                                                                                                                                                                                                       | Destornilladores electricista / Electrician screwdrivers                          |      |
| 11   | 55328, 55329, 55330, 55331, 55332, 55333, 55334, 55335, 55337, 55338, 55341                                                                                                                                                                                                                                                                                  | Destornilladores mecánicos / Slotted screwdrivers                                 |      |
| 18   | 55449, 55450, 55451, 55452, 55453, 55457, 66850, 66851, 66852, 66853, 66854, 66866, 66867, 66868, 66869, 66870, 66871, 66872                                                                                                                                                                                                                                 | Destornilladores Microtronic / Microtronic screwdrivers                           |      |
| 8    | 66437, 66438, 66439, 66440, 66441, 66442, 66443, 67192                                                                                                                                                                                                                                                                                                       | Destornilladores Phillips® / Phillips® screwdrivers                               |      |
| 1    | 66249                                                                                                                                                                                                                                                                                                                                                        | Destornilladores portapuntas / Bitholder screwdrivers                             |      |
| 8    | 66456, 66457, 66458, 66459, 66460, 66472, 66473, 67193                                                                                                                                                                                                                                                                                                       | Destornilladores Pozidriv® / Pozidriv® screwdrivers                               |      |
| 3    | 66530, 66531, 66532                                                                                                                                                                                                                                                                                                                                          | Destornilladores Robertson / Screwdrivers Robertson                               |      |
| 13   | 66487, 66488, 66489, 66490, 66491, 66492, 66493, 66494, 66495, 66496, 66497, 66498, 66499                                                                                                                                                                                                                                                                    | Destornilladores Tamper Torx / Screwdrivers Tamper Torx                           |      |
| 1    | 65766                                                                                                                                                                                                                                                                                                                                                        | Escuadra magnética para soldadura / Magnetic welding square                       |      |
|      | 65768                                                                                                                                                                                                                                                                                                                                                        | Escuadras / Squares                                                               |      |
| 7    | 61583, 61584, 61585, 61586, 61587, 61588, 61589                                                                                                                                                                                                                                                                                                              | Extractores de tornillos / Screw extractors                                       |      |
| 1    | 65361                                                                                                                                                                                                                                                                                                                                                        | Flexómetros / Measuring tapes                                                     |      |
| 6    | 63429, 63430, 63431, 63432, 63433, 63434                                                                                                                                                                                                                                                                                                                     | Granetes / Center punches                                                         |      |
| 1    | 65852                                                                                                                                                                                                                                                                                                                                                        | Juegos de golpe números / Punches numbers                                         |      |
| 10   | 63504, 63576, 63612, 63648, 63684, 63714, 63715, 63717, 63718, 63719                                                                                                                                                                                                                                                                                         | Limas / Files                                                                     |      |
| 1    | 58641                                                                                                                                                                                                                                                                                                                                                        | Linternas / Flashlights                                                           |      |
| 12   | 60380, 60381, 60382, 60384, 60385, 60388, 60390, 60391, 67886, 67887, 67888, 67893                                                                                                                                                                                                                                                                           | Llaves acodadas / Double offset ring wrenches                                     |      |
| 1    | 61110                                                                                                                                                                                                                                                                                                                                                        | Llaves ajustables / Adjustable wrenches                                           |      |
|      | 58460, 58461, 58462, 58463, 58464, 58465, 58466, 58467, 60340, 60341, 60342, 60343, 60344, 60345, 60346, 60347, 60348, 60349, 60350, 60351, 60352, 60353, 60354, 60355, 60356, 60358, 67878, 67885, 67953, 67954                                                                                                                                             | Llaves combinadas / Combination wrenches                                          |      |
|      | 62603                                                                                                                                                                                                                                                                                                                                                        |                                                                                   | 1/4" |
| 1    | 62604                                                                                                                                                                                                                                                                                                                                                        | Llaves de carraca reversible / Reversible ratchet handles                         | 3/8" |
|      | 62606                                                                                                                                                                                                                                                                                                                                                        |                                                                                   | 1/2" |
| 9    | 68283, 68284, 68285, 68286, 68287, 68288, 68289, 68290, 68292                                                                                                                                                                                                                                                                                                | Llaves de gancho / Hook spanners                                                  |      |
|      | 55813, 55814, 56015, 56017, 56018, 56019, 56020, 56021, 56023, 56024, 56025, 56026, 56027, 57165, 57166, 57167, 57168, 57169, 57170, 63989, 63990, 63991, 63992, 63993, 63994, 63995, 63996, 63997, 63998, 67689, 67690, 67691, 67692, 67693, 67694, 67695, 67696, 67697, 67698, 67699                                                                       |                                                                                   | 1/4" |
|      | 57173, 57174, 57175, 57176, 57177, 60439, 60440, 60441, 60442, 60443, 60444, 60445, 60446, 60447, 60448, 60449, 60450, 60451, 60452, 60453, 67750, 67751, 67752, 67753, 67754, 67755, 67756, 67757, 67758, 67759, 67761                                                                                                                                      | Llaves de vaso / Socket wrenches                                                  | 3/8" |
|      | 55795, 55796, 55797, 55798, 55799, 55800, 55801, 55802, 55803, 55804, 55805, 55806, 55807, 55808, 55809, 55810, 55811, 55833, 55834, 57185, 57186, 57187, 60479, 60480, 60481, 60482, 60483, 60484, 60485, 60486, 60487, 60488, 60489, 60490, 60491, 60492, 60493, 60494, 60495, 60496, 60497, 60498, 67805, 67806, 67807, 67808, 67809, 67810, 67811, 67812 |                                                                                   | 1/2" |
| 4    | 57775, 57776, 57777, 57778                                                                                                                                                                                                                                                                                                                                   | Llaves estrella planas / Double ended flat ring spanners                          |      |
| 5    | 57718, 57719, 57720, 57721, 57722                                                                                                                                                                                                                                                                                                                            | Llaves estrella planas Torx® / Double ended flat ring spanners Torx®              |      |
| 25   | 60300, 60301, 60302, 60303, 60304, 60305, 60306, 60307, 60308, 60309, 60310, 60311, 60312, 60313, 60314, 60315, 67931, 67934, 67939, 67940, 67941, 67942, 67943, 67944, 67945                                                                                                                                                                                | Llaves fijas / Open-end wrenches                                                  |      |
| 8    | 56210, 56211, 56212, 56213, 56214, 56215, 56216, 56217                                                                                                                                                                                                                                                                                                       | Llaves fijas extrafinas / Slim open end wrenches                                  |      |
| 12   | 58537, 58538, 58539, 58540, 58541, 58542, 58543, 58544, 58545, 58546, 58547, 58548                                                                                                                                                                                                                                                                           | Llaves fijas micromecánicas a 15° y 75° / 15° and 75° micromech open end wrenches |      |
|      | 65315, 65316, 65317, 65318, 65319, 65320, 65321, 65322, 65323, 65324, 65325, 65326, 65327, 65328, 65329, 67671, 68900, 68901, 68902, 68903, 68904, 68905, 68906, 68907, 68908, 68909, 68910, 68911, 68912                                                                                                                                                    | Llaves hexagonales / Hexagonal key wrenches                                       |      |
| 13   | 68914, 68915, 68916, 68917, 68918, 68919, 68920, 68921, 68922, 68923, 68924, 68925, 68926                                                                                                                                                                                                                                                                    | Llaves hexagonales bola / Hexagonal key wrenches ball type                        |      |
|      | 57148, 57149, 57150, 57151, 57152                                                                                                                                                                                                                                                                                                                            | Llaves media luna / Half moon spanners                                            |      |
| 5    | 58752, 58753, 58754, 58756, 58758                                                                                                                                                                                                                                                                                                                            | Llaves para racores / Flare nut spanners                                          |      |
| 6    | 65975, 65976, 65977, 65978, 65979, 65980                                                                                                                                                                                                                                                                                                                     | Llaves Ribe® / Ribe® wrenches                                                     |      |
| 1    | 61001                                                                                                                                                                                                                                                                                                                                                        | Llaves Stillson / Stillson pipe wrenches                                          |      |
| 20   | 56544, 56545, 56546, 56547, 56548, 56549, 56550, 56551, 56552, 56553, 56554, 56556, 56557, 56558, 56559, 56560, 56561, 56562, 56563, 56564                                                                                                                                                                                                                   | Llaves Tamper Torx / Tamper Torx keys                                             |      |
|      | 69504                                                                                                                                                                                                                                                                                                                                                        | Magnetizador-desmagnetizador / Magnetizer-demagnetizer                            |      |
|      | 65874                                                                                                                                                                                                                                                                                                                                                        | Mango articulado / Swivel handle                                                  |      |
| 1    | 61438                                                                                                                                                                                                                                                                                                                                                        |                                                                                   | 1/4" |
|      | 61439                                                                                                                                                                                                                                                                                                                                                        | Mango correrizo en T / Sliding "T" handle                                         | 3/8" |
|      | 61440                                                                                                                                                                                                                                                                                                                                                        |                                                                                   | 1/2" |



| PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                                                                                                                                                                        | Descripción / Description / Description                       |        |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------|
| 9    | 55326, 69521, 69601, 69612, 69614, 69618, 69620, 69681, 69701                                                                                                                                                                                                                                                                                                                                                                                                  | Martillos / Hammers                                           |        |
| 1    | 69525                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Navajas / Penknives                                           | -      |
|      | 65158                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Nivel magnético torpedo / Torpedo Magnetic level              |        |
| 2    | 69530, 69531                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Pinzas / Tweezers                                             |        |
|      | 55265                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Punta portavasos / Socket holder bit                          | 1/4"   |
| 1    | 61695                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Puntas adaptadoras para vasos / Adapter bits for sockets      | 3/8"   |
|      | 61696                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                               | 1/2"   |
|      | 61697                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                               |        |
| 64   | 53000, 53001, 53002, 53003, 53004, 53005, 53006, 53007, 53008, 53009, 53010, 53011, 53015, 53016, 53017, 53019, 53020, 53021, 53023, 53024, 53025, 53027, 53028, 53029, 53030, 53031, 53032, 53034, 53035, 53036, 53037, 53038, 53039, 53051, 53052, 53053, 53054, 53055, 53056, 53057, 53058, 53059, 53060, 55670, 55671, 55672, 55673, 55674, 55675, 55676, 55677, 55678, 55679, 58900, 66733, 66734, 66735, 66736, 66737, 66738, 66739, 66740, 66741, 66742 |                                                               | 1/4"   |
| 61   | 53065, 53066, 53067, 53068, 53069, 53070, 53071, 53072, 53074, 53075, 53076, 53078, 53079, 53080, 53082, 53083, 53084, 53086, 53087, 53088, 53089, 53098, 53099, 53100, 53101, 53102, 53103, 55680, 55681, 55682, 55683, 55684, 55685, 55686, 55687, 56975, 56976, 56977, 56978, 56979, 56980, 56981, 56982, 56985, 56986, 56987, 56988, 56991, 56992, 58896, 66760, 66761, 66762, 66763, 66764, 66765, 66766, 66767, 66768, 66769, 66770                      | Puntas atornilladoras con vaso / Socket bits                  | 3/8"   |
| 58   | 53105, 53107, 53108, 53109, 53110, 53115, 53116, 53117, 53118, 53119, 53120, 53121, 53122, 53123, 53127, 53128, 53129, 53131, 53132, 53133, 53134, 53136, 53137, 53138, 53139, 53149, 53150, 53151, 53152, 53153, 53154, 53155, 53156, 53157, 55688, 55689, 55690, 55691, 55692, 55693, 55695, 55696, 56896, 66801, 66802, 66804, 66805, 66806, 66820, 66821, 66822, 66823, 66824, 66825, 66826, 66827, 66828, 66829                                           |                                                               | 1/2"   |
| 1    | 65783                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Punzón / Awl                                                  |        |
|      | 65831                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Reglas / Rulers                                               |        |
| 10   | 64671, 64672, 64673, 64674, 64675, 64676, 64677, 64678, 64679, 64680                                                                                                                                                                                                                                                                                                                                                                                           | Sacabocados / Hollow punches                                  |        |
| 1    | 69570                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sargentos / Clamps                                            | -      |
| 4    | 62123, 62145, 62177, 62795                                                                                                                                                                                                                                                                                                                                                                                                                                     | Tenazas / Pincers                                             |        |
|      | 69534                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Tijeras electricista / Electrician's scissors                 |        |
| 1    | 65846                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Vaso adaptador para puntas / Square drive bit retainer        | 1/4"   |
|      | 87628                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Limpiador multiusos / Multi-purpose cleaner                   | 250 ml |
|      | 63988                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Cinta de señalización de seguridad / Safety hazard signs tape | -      |

# EGGA Master

## ART IN INNOVATION

- 632 PCS.
- MM / INCH



| COD.  | PCS. |  | Medidas en / Sizes in / Mesures en |  |
|-------|------|-------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|
| 68960 | -    | -                                                                                   | -                                  | 170                                                                                   |
| 68961 | 632  | 50950                                                                               | mm/inch                            | 270                                                                                   |
| 55765 | -    | 50954 (3)                                                                           | ●                                  | 500                                                                                   |

Si no encuentra el artículo que necesita, consúltenos en [consulta@egamaster.com](mailto:consulta@egamaster.com) o en [www.egamaster.com](http://www.egamaster.com)  
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 Si vous ne trouvez pas l'article que vous desirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)

| PCS. | Composición / Composition / Composition                                                                                                                                                                                        | Descripción / Description / Description                               |                    |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------|
| 20   | 62214, 62215, 62216, 62217, 62218, 62219, 62220, 62221, 62222, 62223, 62224, 62225, 62226, 62227, 62228, 62229, 62180, 62181, 62182, 62183                                                                                     | Alicates Circlips / Circlips pliers                                   |                    |
| 9    | 66400, 66401, 66403, 66405, 66407, 66408, 66409, 66410, 66525                                                                                                                                                                  | Destornilladores mecánicos / Slotted screwdrivers                     |                    |
| 7    | 76620, 76621, 76622, 76624, 76625, 76626, 76627                                                                                                                                                                                | Destornilladores electricistas / Electrician screwdrivers             |                    |
| 6    | 66438, 66439, 66440, 66441, 66442, 66526                                                                                                                                                                                       | Destornilladores Phillips® / Phillips® screwdrivers                   |                    |
|      | 66456, 66457, 66458, 66459, 66460, 66527                                                                                                                                                                                       | Destornilladores Pozidriv® / Pozidriv® screwdrivers                   |                    |
| 13   | 66474, 66475, 66476, 66477, 66478, 66479, 66480, 66481, 66482, 66483, 66484, 66485, 66486                                                                                                                                      | Destornilladores Torx® / Torx® screwdrivers                           | -                  |
| 7    | 66571, 66572, 66573, 66574, 66575, 66576, 66577                                                                                                                                                                                | Destornilladores T-Mastertork / T-Mastertork screwdrivers             |                    |
| 16   | 69870                                                                                                                                                                                                                          | Set reversible Mastergear / Set rev. Mastergear                       |                    |
| 13   | 61824, 61825, 61826, 61827, 61828, 61829, 61830, 61831, 61832, 61833, 61834, 61835, 61836                                                                                                                                      | Llaves de tubo doble boca / Socket double ended wrench                |                    |
| 18   | 61840, 61841, 61842, 61843, 61844, 61845, 61846, 61847, 61848, 61849, 61850, 61851, 61852, 61853, 61854, 61855, 61856, 61858                                                                                                   | Llaves articuladas en T / T-handle wrenches with universal joint      |                    |
| 32   | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736, 61737, 61738, 61739, 61740, 61741, 61742, 61743, 61744, 61745, 61746, 61747, 61748, 61749, 61750, 60951, 60952, 60953, 60954, 60955, 60956 | Llaves combinadas / Combination wrenches                              | mm                 |
| 23   | 60340, 60341, 60342, 60343, 60344, 60345, 60346, 60347, 60348, 60349, 60350, 60351, 60352, 60353, 60354, 60355, 60356, 60357, 60358, 60957, 60958, 60959, 60960                                                                |                                                                       | inch               |
| 14   | 61700, 61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708, 61709, 61710, 61711, 61712, 61713                                                                                                                               | Llaves fijas / Open-end wrenches                                      | mm                 |
| 15   | 60300, 60301, 60302, 60303, 60304, 60305, 60306, 60307, 60308, 60309, 60310, 60311, 60312, 60313, 60314                                                                                                                        |                                                                       | inch               |
| 16   | 61775, 61776, 61777, 61778, 61779, 61780, 61781, 61782, 61783, 61784, 61785, 61786, 61787, 61788, 61789, 61790                                                                                                                 | Llaves acodadas / Double offset ring wrenches                         | mm                 |
| 15   | 60380, 60381, 60382, 60383, 60384, 60385, 60386, 60387, 60388, 60389, 60390, 60391, 60392, 60393, 60394                                                                                                                        |                                                                       | inch               |
| 25   | 61960                                                                                                                                                                                                                          | Juego / Set                                                           | 1/2", mm, 25 pcs   |
|      | 61963                                                                                                                                                                                                                          |                                                                       | 1/2", inch, 25 pcs |
| 26   | 61870, 61871, 61872, 61873, 61874, 61875, 61876, 61877, 61878, 61879, 61880, 61881, 61882, 61883, 61884, 61885, 61886, 61887, 61888, 61889, 61890, 61891, 61892, 61893, 61894, 61895                                           | Llaves de pipa / Angled sockets                                       | -                  |
| 23   | 65302, 65303, 65304, 65305, 65306, 65307, 65308, 65309, 65310, 65311, 65312, 65313, 65314, 61501, 61502, 61503, 61504, 61505, 61506, 61507, 61508, 61509, 61510                                                                | Llaves hexagonales / Hexagonal keys                                   | mm                 |
| 15   | 65315, 65316, 65317, 65318, 65319, 65320, 65321, 65322, 65323, 65324, 65325, 65326, 65327, 65328, 65329                                                                                                                        |                                                                       | inch               |
| 7    | 63401, 63402, 63403, 63404, 63405, 63406, 63407                                                                                                                                                                                | Botadores octogonales / Octagonal punches                             |                    |
| 6    | 63435, 63436, 63437, 63438, 63439, 63440                                                                                                                                                                                       | Granetes hexagonales / Hexagonal center punches                       |                    |
| 3    | 63178, 63179, 63180                                                                                                                                                                                                            | Cortafíos / Chisel                                                    |                    |
| 13   | 62331, 62332, 62333, 62337, 62338, 62339, 62340, 62341, 62342, 62343, 62344, 62345, 62349                                                                                                                                      | Alicates / Pliers                                                     |                    |
| 9    | 62241, 62242, 62243, 62244, 62245, 62246, 62247, 62248, 62249                                                                                                                                                                  | Alicates mini / Mini Pliers                                           | -                  |
| 3    | 62133, 62134, 62135                                                                                                                                                                                                            | Tenazas de canal / Box joint pincers                                  |                    |
| 2    | 61112, 61114                                                                                                                                                                                                                   | Llave ajustable / Adjustable wrench                                   |                    |
| 5    | 62586, 62587, 62588, 62589, 62590                                                                                                                                                                                              | Extractores / Gear pullers                                            |                    |
| 1    | 63748                                                                                                                                                                                                                          | Arco de sierra / Hack Saw                                             |                    |
| 29   | 61958                                                                                                                                                                                                                          | Juego vasos / Socket set                                              | 1/4", mm           |
|      | 61961                                                                                                                                                                                                                          |                                                                       | 1/4", inch         |
| 1    | 62963                                                                                                                                                                                                                          | Llave dinamométrica reversible / Reversible torque wrench             | 1/2", 40-200 nm    |
| 7    | 69614, 69619, 69622, 69750, 69742, 69729, 69521                                                                                                                                                                                | Martillos / Hammers                                                   |                    |
| 33   | 66942                                                                                                                                                                                                                          | Juego puntas / Bits set                                               | -                  |
| 2    | 61016, 61018                                                                                                                                                                                                                   | Llave HD / HD Pipe wrench                                             | 12"                |
| 8    | 62177, 62178, 62172, 62231, 62486, 62487, 62508, 62490,                                                                                                                                                                        | Tenazas Grip / Grip pincers                                           |                    |
| 6    | 63498, 63534, 63570, 63606, 63642, 63678                                                                                                                                                                                       | Limas / Files                                                         |                    |
|      | 62233                                                                                                                                                                                                                          | Tijera de chapa / Tin snip                                            |                    |
| 1    | 69534                                                                                                                                                                                                                          | Tijera electricista / Electrician's scissors                          | -                  |
|      | 65479                                                                                                                                                                                                                          | Calibre / Caliper                                                     |                    |
|      | 69570, 69572, 69575                                                                                                                                                                                                            | Sargentos G / G Clamps                                                |                    |
| 3    | 69582, 69586, 69588                                                                                                                                                                                                            | Sargentos F / F Clamps                                                |                    |
| 1    | 65155                                                                                                                                                                                                                          | Nivel trapezoidal profesional / Professional bridge type spirit level | 400 mm             |
|      | 66731                                                                                                                                                                                                                          | Destornillador portapuntas magnético / Screwdriver magnetic bitholder |                    |
| 10   | 60693                                                                                                                                                                                                                          |                                                                       | mm                 |
| 11   | 61267                                                                                                                                                                                                                          | Juego de vasos impacto / Impact socket sets                           | inch               |
| 2    | 62123, 62124                                                                                                                                                                                                                   | Tenaza rusa / Tower pincer                                            | 9", 10"            |
|      | 62438, 62440                                                                                                                                                                                                                   | Tenaza carpintero / Carpenter pincer                                  |                    |
| 4    | 69529                                                                                                                                                                                                                          | Set 4 pinzas / Set 4 tweezers                                         | -                  |
| 1    | 62493                                                                                                                                                                                                                          | Alicate de terminales / Crimping pliers                               |                    |

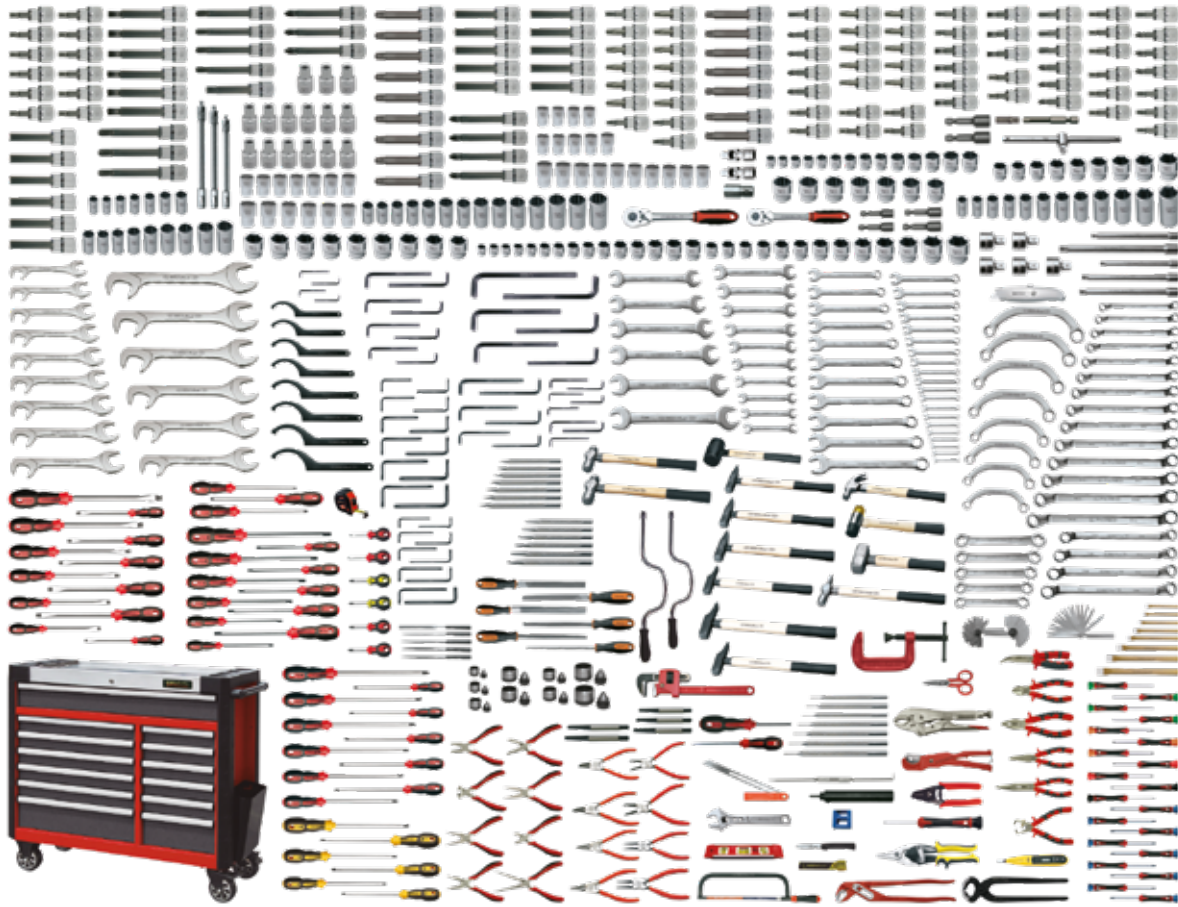
| PCS. | Composición / Composition / Composition                                                                                             | Descripción / Description / Description                          |        |
|------|-------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------|
| 11   | 65089, 65090, 65091, 65092, 65093, 65095, 65096, 65098, 65099, 65100, 65102                                                         | Llaves de carraca para racores / Ratcheting ring wrench          |        |
| 19   | 66846, 66848, 66849, 66850, 66851, 66852, 66853, 66854, 66855, 66856, 66857, 66858, 66859, 66860, 66861, 57684, 57685, 66864, 66865 | Juego destornilladores Microtronic / Microtronic screwdriver set | -      |
| 1    | 69504                                                                                                                               | Magnetizador-desmagnetizador / Magnetizer-demagnetizer           |        |
|      | 65362                                                                                                                               | Flexómetros / Measuring tape                                     | 3m/10' |
| 6    | 63714, 63715, 63716, 63717, 63718, 63719                                                                                            | Limas de aguja / Needle files                                    |        |
|      | 65595                                                                                                                               | Recogedor telescópico / Telescopic joing pick up                 | -      |
|      | 65586                                                                                                                               | Espejo articulado / Joint telescopic mirror                      |        |
| 1    | 65774                                                                                                                               | Regla / Ruler                                                    | 300 mm |
|      | 63119                                                                                                                               | Cortatubos cobre / Cooper tube cutter                            | 42 mm  |
|      | 63376                                                                                                                               | Rasqueta / Scraper                                               |        |
|      | 63208                                                                                                                               | Cepillos / Brushes                                               | -      |
| 7    | 68172                                                                                                                               | Set curvatubos carraca / Ratchet tube bender set                 | mm     |
|      | 68001                                                                                                                               | Abocinador / Pulg flaring tool                                   | inch   |
| 1    | 63172                                                                                                                               | Cortatubos acero / Steel tube cutter                             | 2"     |
|      | 63205                                                                                                                               | Cortatubos plástico Piraina / Piraina plastic pipe cutter        |        |
| 13   | 67169, 67170, 67171, 67172, 67173, 67174, 67175, 67176, 67177, 67178, 67179, 67180, 67181                                           | Formones / Firmer chisels                                        | -      |
| 1    | 62200                                                                                                                               | Cortavarillas / Bolt cutters                                     | 8"     |
|      | 69501                                                                                                                               | Cortadores / Cutters                                             |        |
| 14   | 64616                                                                                                                               | Set sierra de coronas / Bimetal hole saws set                    |        |
|      | 67022                                                                                                                               | Espátula / Scraper                                               | -      |
|      | 65388                                                                                                                               | Navaja / Penknife                                                |        |
| 1    | 66073                                                                                                                               | Buscapolos / Voltage tester                                      |        |
|      | 87628                                                                                                                               | Limpiador multiusos / Multi-purpose cleaner                      | 250 ml |
|      | 63988                                                                                                                               | Cinta de señalización de seguridad / Safety hazard signs tape    | -      |

# EGGA Master

## ART IN INNOVATION

■ ≈ 600 PCS.

■ MM



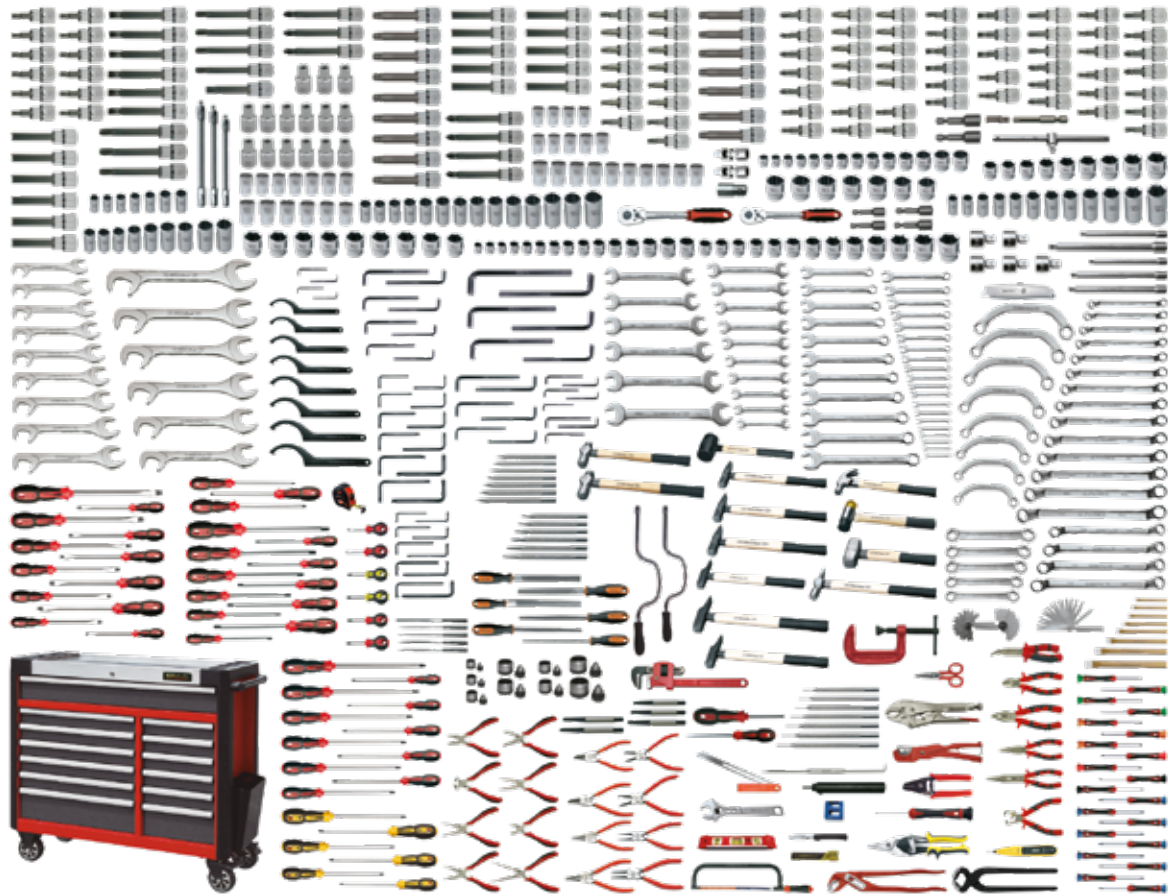
| COD.         | PCS. |              | Medidas en / Sizes in / Mesures en |     |
|--------------|------|--------------|------------------------------------|-----|
| <b>51695</b> |      |              |                                    | 70  |
| <b>51696</b> | 606  | 50954        | mm                                 | 180 |
| <b>51697</b> |      | 51674, 51117 |                                    | 240 |

| PCS. | Composición / Composition / Composition                                                          | Descripción / Description / Description                     |      |
|------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------|
| 1    | 65880                                                                                            |                                                             | 1/4" |
| 2    | 65881, 65884                                                                                     | Adaptador para llaves de vaso / Adapter for socket wrenches | 3/8" |
|      | 65882, 65885                                                                                     |                                                             | 1/2" |
| 1    | 65603                                                                                            | Agujas de trazar / Scribers                                 | -    |
| 4    | 61442, 61443, 61444, 61445                                                                       | Alargaderas / Extensions                                    | 1/4" |
| 3    | 61453, 61455, 61458                                                                              |                                                             | 1/2" |
| 6    | 62331, 62337, 62339, 62341, 62343, 62349                                                         | Alicates / Pliers                                           |      |
| 8    | 62180, 62181, 62182, 62183, 62216, 62220, 62224, 62228                                           | Alicates Circlips / Circlips pliers                         | -    |
| 9    | 62241, 62242, 62243, 62244, 62245, 62246, 62247, 62248, 62249                                    | Alicates mini / Mini Pliers                                 |      |
|      | 63745                                                                                            | Arcos de sierra / Hack saws                                 |      |
|      | 61435                                                                                            |                                                             | 1/4" |
| 1    | 61437                                                                                            | Articulación universal / Universal joint                    | 1/2" |
|      | 61408                                                                                            |                                                             | 1/4" |
|      | 61434                                                                                            | Berbiquí / Speeder Handle                                   | 1/2" |
| 14   | 63387, 63388, 63389, 63390, 63391, 63392, 63393, 63408, 63409, 63410, 63411, 63412, 63413, 63414 | Botadores / Punches                                         |      |
| 1    | 66074                                                                                            | Buscapolos / Voltage tester                                 |      |
| 8    | 62847, 62848, 62849, 62850, 62853, 62854, 62855, 62856                                           | Cinceles / Chisels                                          | -    |
|      | 63915                                                                                            | Cortabridas / Plastic tie cutters                           |      |
|      | 69501                                                                                            | Cortadores / Cutters                                        |      |
| 1    | 63199                                                                                            | Cortatubos / Tube cutters                                   |      |
|      | 66732                                                                                            | Destornillador portavasos / Socket holder                   | 1/4" |
| 4    | 66525, 66526, 66527, 66529                                                                       | Destornilladores carroceros / Stubby screwdrivers           | -    |



| PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Descripción / Description / Description                                           |        |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|
| 11   | 66411, 66412, 66420, 66421, 66422, 66423, 66424, 66425, 66426, 66427, 66428                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Destornilladores electricista / Electrician screwdrivers                          |        |
| 12   | 66399, 66400, 66401, 66402, 66403, 66404, 66405, 66406, 66407, 66408, 66409, 66448                                                                                                                                                                                                                                                                                                                                                                                                                                            | Destornilladores mecánicos / Slotted screwdrivers                                 |        |
| 20   | 57684, 66846, 66847, 66848, 66849, 66850, 66851, 66852, 66853, 66854, 57685, 66864, 66865, 66866, 66867, 66868, 66869, 66870, 66871, 66872                                                                                                                                                                                                                                                                                                                                                                                    | Destornilladores Microtronic / Microtronic screwdrivers                           |        |
| 8    | 66437, 66438, 66439, 66440, 66441, 66442, 66443, 67192                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Destornilladores Phillips® / Phillips® screwdrivers                               |        |
| 7    | 66456, 66457, 66458, 66459, 66472, 66473, 67193                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Destornilladores Pozidriv® / Pozidriv® screwdrivers                               |        |
| 3    | 66530, 66531, 66532                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Destornilladores Robertson / Screwdrivers Robertson                               |        |
| 11   | 66487, 66488, 66489, 66490, 66491, 66492, 66493, 66494, 66495, 66496, 66497                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Destornilladores Tamper Torx / Screwdrivers Tamper Torx                           |        |
| 1    | 65768                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Escuadras / Squares                                                               |        |
| 5    | 61586, 61587, 61588, 61589, 61590                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Extractores de tornillos / Screw extractors                                       |        |
| 1    | 65171                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Flexómetros / Measuring tapes                                                     | -      |
| 2    | 65559, 65571                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Galgas / Gauges                                                                   |        |
| 6    | 63429, 63430, 63431, 63432, 63433, 63434                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Granetes / Center punches                                                         |        |
|      | 63692, 63714, 63715, 63717, 63718, 63719                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Limas / Files                                                                     |        |
| 1    | 58641                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Linternas / Flashlights                                                           |        |
| 18   | 61774, 61775, 61776, 61777, 61778, 61779, 61780, 61781, 61782, 61783, 61784, 61785, 61786, 61787, 67843, 67844, 67845, 67855                                                                                                                                                                                                                                                                                                                                                                                                  | Llaves acodadas / Double offset ring wrenches                                     |        |
| 1    | 61112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Llaves ajustables / Adjustable wrenches                                           |        |
| 31   | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736, 61737, 61738, 61739, 61740, 61741, 61742, 61743, 61744, 61745, 61746, 61747, 61748, 61749, 61750, 63965, 63966, 63967, 67880, 67881                                                                                                                                                                                                                                                                                                       | Llaves combinadas / Combination wrenches                                          |        |
| 1    | 62603                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Llaves de carraca reversible / Reversible ratchet handles                         | 1/4"   |
|      | 62606                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                   | 1/2"   |
| 8    | 68283, 68284, 68285, 68286, 68287, 68288, 68289, 68290                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Llaves de gancho / Hook spanners                                                  | -      |
| 41   | 55813, 55814, 56015, 56017, 56018, 56019, 56020, 56021, 56023, 56024, 56025, 56026, 56027, 57165, 57166, 57167, 57168, 57169, 57170, 63977, 63978, 63979, 63980, 63981, 63982, 63983, 63984, 63985, 63986, 63987, 67660, 67661, 67662, 67663, 67664, 67665, 67666, 67667, 67668, 67669, 67670                                                                                                                                                                                                                                 | Llaves de vaso / Socket wrenches                                                  | 1/4"   |
| 69   | 55795, 55796, 55797, 55798, 55799, 55800, 55801, 55802, 55803, 55804, 55805, 55806, 55807, 55808, 55809, 55811, 55833, 57179, 57180, 57181, 57182, 57183, 57184, 57185, 57186, 57187, 61380, 61381, 61382, 61383, 61384, 61385, 61386, 61387, 61388, 61389, 61390, 61391, 61392, 61393, 61394, 61395, 61396, 61397, 61398, 61399, 61400, 61401, 61402, 61403, 67780, 67781, 67782, 67783, 67784, 67785, 67786, 67787, 67788, 67789, 67791, 67792, 67793, 67794, 67795, 67796, 67797, 67799, 67800                             | Llaves de vaso / Socket wrenches                                                  | 1/2"   |
| 5    | 57718, 57719, 57720, 57721, 57722                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Llaves estrella planas Torx® / Double ended flat ring spanners Torx®              |        |
| 14   | 61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708, 61709, 61710, 61711, 61712, 61713, 67917                                                                                                                                                                                                                                                                                                                                                                                                                              | Llaves fijas / Open-end wrenches                                                  |        |
| 15   | 58520, 58521, 58522, 58523, 58524, 58525, 58526, 58527, 58528, 58529, 58530, 58531, 58532, 58533, 58534                                                                                                                                                                                                                                                                                                                                                                                                                       | Llaves fijas micromecánicas a 15° y 75° / 15° and 75° micromech open end wrenches |        |
| 32   | 61501, 61502, 61503, 61504, 61505, 61506, 61517, 61518, 61519, 61525, 61526, 61621, 61622, 61623, 61624, 65302, 65303, 65304, 65306, 65307, 65308, 65309, 65310, 65330, 65331, 65332, 65519, 65955, 65956, 65958, 67493, 67494                                                                                                                                                                                                                                                                                                | Llaves hexagonales / Hexagonal key wrenches                                       | -      |
| 8    | 57155, 57156, 57158, 57159, 57160, 57161, 57162, 60795                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Llaves media luna / Half moon spanners                                            |        |
| 1    | 61001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Llaves Stillson / Stillson pipe wrenches                                          |        |
| 20   | 56544, 56545, 56546, 56547, 56548, 56549, 56550, 56551, 56552, 56553, 56554, 56556, 56557, 56558, 56559, 56560, 56561, 56562, 56563, 56564                                                                                                                                                                                                                                                                                                                                                                                    | Llaves Tamper Torx / Tamper Torx keys                                             |        |
| 1    | 69504                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Magnetizador-desmagnetizador / Magnetizer-demagnetizer                            |        |
|      | 61438                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Mango correrizo en T / Sliding "T" handle                                         | 1/4"   |
| 13   | 55326, 69521, 69601, 69603, 69605, 69612, 69613, 69614, 69618, 69620, 69622, 69681, 69701                                                                                                                                                                                                                                                                                                                                                                                                                                     | Martillos / Hammers                                                               |        |
|      | 69525                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Navajas / Penknives                                                               | -      |
| 1    | 65158                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Nivel magnético torpedo / Torpedo Magnetic level                                  |        |
|      | 55265                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Punta portavosos / Socket holder bit                                              |        |
| 59   | 53000, 53001, 53002, 53003, 53004, 53005, 53006, 53007, 53008, 53009, 53010, 53011, 53013, 53015, 53016, 53017, 53019, 53020, 53021, 53023, 53024, 53025, 53034, 53035, 53036, 53037, 53038, 53039, 53041, 53042, 53043, 53044, 53045, 53046, 53047, 53048, 53049, 53050, 55697, 55698, 55699, 55700, 58900, 66733, 66734, 66735, 66736, 66737, 66738, 66739, 66740, 66741, 66742, 66743, 66744, 66745, 66746, 66747, 67164                                                                                                   | Puntas atornilladoras con vaso / Socket bits                                      | 1/4"   |
| 73   | 53105, 53107, 53108, 53109, 53110, 53115, 53116, 53117, 53118, 53119, 53120, 53121, 53122, 53123, 53124, 53125, 53127, 53128, 53129, 53131, 53132, 53133, 53134, 53136, 53137, 53138, 53139, 53149, 53150, 53151, 53152, 53153, 53154, 53155, 53156, 55704, 55705, 55706, 55707, 55708, 56896, 66801, 66802, 66803, 66804, 66805, 66806, 66807, 66808, 66809, 66810, 66811, 66812, 66813, 66814, 66815, 66816, 66817, 66818, 66819, 66820, 66821, 66822, 66823, 66824, 66825, 66826, 66827, 66828, 66829, 66842, 67213, 67214 | Puntas atornilladoras con vaso / Socket bits                                      | 1/2"   |
| 7    | 57575, 57576, 66269, 66270, 66271, 66279, 66280                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Puntas Stecker / Magnetic Stecker                                                 | 1/4"   |
| 1    | 65783                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Punzón / Awl                                                                      |        |
| 10   | 64671, 64672, 64673, 64674, 64675, 64676, 64677, 64678, 64679, 64680                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sacabocados / Hollow punches                                                      |        |
| 1    | 69570                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sargentos / Clamps                                                                | -      |
| 3    | 62146, 62177, 62795                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Tenazas / Pincers                                                                 |        |
|      | 62170                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Tijeras / Tin snips                                                               |        |
|      | 69534                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Tijeras electricista / Electrician's scissors                                     |        |
| 1    | 65846                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Vaso adaptador para puntas / Square drive bit retainer                            | 1/4"   |
|      | 87628                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Limpiador multiusos / Multi-purpose cleaner                                       | 250 ml |
|      | 63988                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Cinta de señalización de seguridad / Safety hazard signs tape                     | -      |

### INCH



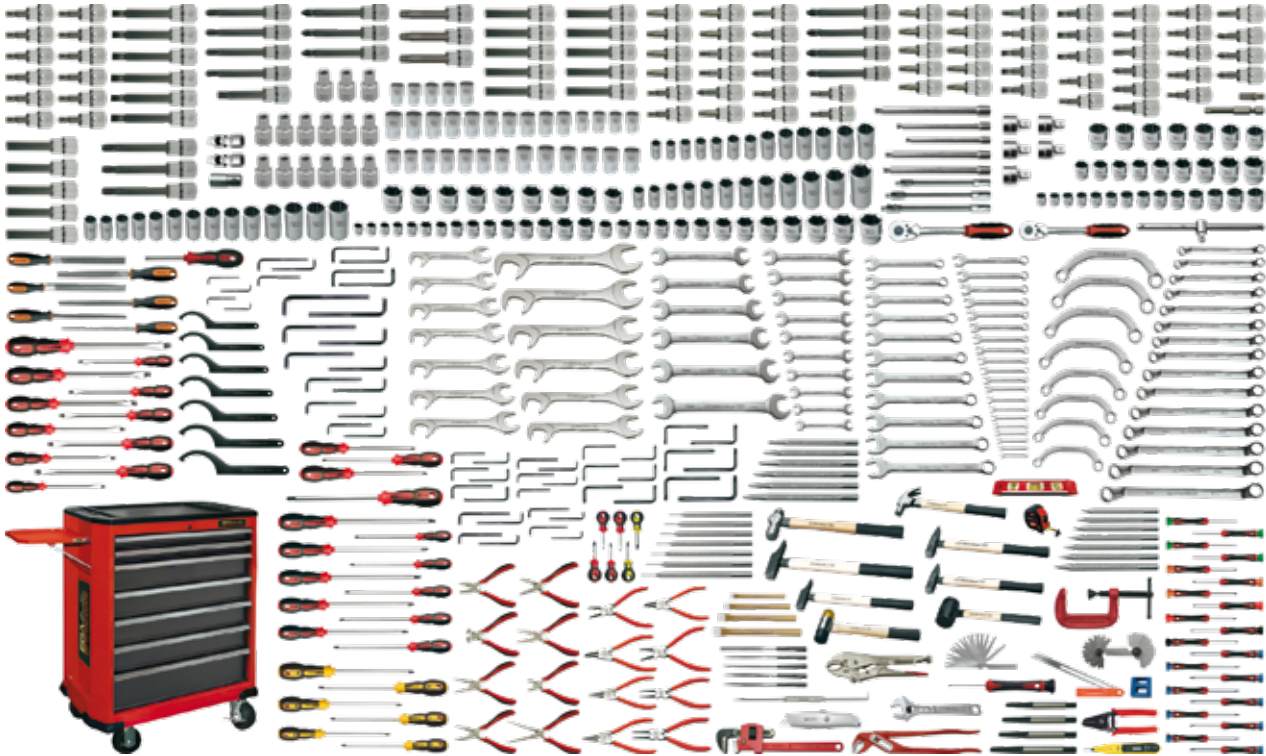
| COD.  | PCS. |              | Medidas en / Sizes in / Mesures en |     |
|-------|------|--------------|------------------------------------|-----|
| 51698 |      | -            |                                    | 70  |
| 51699 | 615  | 50954        | inch                               | 180 |
| 51700 |      | 51674, 51117 |                                    | 240 |

| PCS. | Composición / Composition / Composition                                                                                      | Descripción / Description / Description                     |      |
|------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------|
| 1    | 65880                                                                                                                        |                                                             | 1/4" |
| 2    | 65881, 65884                                                                                                                 | Adaptador para llaves de vaso / Adapter for socket wrenches | 3/8" |
|      | 65882, 65885                                                                                                                 |                                                             | 1/2" |
| 4    | 66261, 66262, 66263, 66264                                                                                                   | Adaptadores portapuntas magnéticos / Magnetic bit holders   | 1/4" |
| 1    | 65603                                                                                                                        | Agujas de trazar / Scribers                                 | -    |
| 3    | 61442, 61444, 61445                                                                                                          |                                                             | 1/4" |
|      | 61453, 61455, 61458                                                                                                          | Alargaderas / Extensions                                    | 1/2" |
| 6    | 62331, 62338, 62339, 62341, 62343, 62349                                                                                     | Alicates / Pliers                                           |      |
| 8    | 62180, 62181, 62182, 62183, 62216, 62220, 62224, 62228                                                                       | Alicates Circlips / Circlips pliers                         |      |
|      | 62241, 62242, 62243, 62244, 62245, 62246, 62247, 62249                                                                       | Alicates mini / Mini Pliers                                 | -    |
|      | 62092                                                                                                                        | Alicates tipo Ford / Slip joint pliers                      |      |
| 1    | 63745                                                                                                                        | Arcos de sierra / Hack saws                                 |      |
|      | 61435                                                                                                                        |                                                             | 1/4" |
|      | 61437                                                                                                                        | Articulación universal / Universal joint                    | 1/2" |
| 14   | 63387, 63388, 63389, 63390, 63391, 63392, 63393, 63408, 63409, 63410, 63411, 63412, 63413, 63414                             | Botadores / Punches                                         |      |
| 1    | 66074                                                                                                                        | Buscapolos / Voltage tester                                 | -    |
| 7    | 62847, 62848, 62849, 62850, 62853, 62854, 62855                                                                              | Cinceles / Chisels                                          |      |
| 1    | 69501                                                                                                                        | Cortadores / Cutters                                        |      |
|      | 66732                                                                                                                        | Destornillador portavasos / Socket holder                   | 1/4" |
| 3    | 55371, 66526, 66527                                                                                                          | Destornilladores carroceros / Stubby screwdrivers           |      |
| 8    | 55352, 55354, 55355, 55357, 55358, 55359, 55360, 55361                                                                       | Destornilladores electricista / Electrician screwdrivers    |      |
| 10   | 55328, 55329, 55330, 55331, 55332, 55333, 55334, 55335, 55337, 55338                                                         | Destornilladores mecánicos / Slotted screwdrivers           | -    |
| 18   | 55449, 55450, 55451, 55452, 55453, 55457, 66850, 66851, 66852, 66853, 66854, 66866, 66867, 66868, 66869, 66870, 66871, 66872 | Destornilladores Microtronic / Microtronic screwdrivers     |      |

| PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Descripción / Description / Description                                           |        |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|
| 8    | 66437, 66438, 66439, 66440, 66441, 66442, 66443, 67192                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Destornilladores Phillips® / Phillips® screwdrivers                               |        |
| 3    | 66249, 66843, 66844                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Destornilladores portapuntas / Bitholder screwdrivers                             |        |
| 8    | 66456, 66457, 66458, 66459, 66460, 66472, 66473, 67193                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Destornilladores Pozidriv® / Pozidriv® screwdrivers                               |        |
| 3    | 66530, 66531, 66532                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Destornilladores Robertson / Screwdrivers Robertson                               |        |
| 13   | 66487, 66488, 66489, 66490, 66491, 66492, 66493, 66494, 66495, 66496, 66497, 66498, 66499                                                                                                                                                                                                                                                                                                                                                                                                                              | Destornilladores Tamper Torx / Screwdrivers Tamper Torx                           |        |
| 1    | 65768                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Escuadras / Squares                                                               |        |
| 7    | 61583, 61584, 61585, 61586, 61587, 61588, 61589                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Extractores de tornillos / Screw extractors                                       |        |
| 1    | 65361                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Flexómetros / Measuring tapes                                                     | -      |
| 6    | 63429, 63430, 63431, 63432, 63433, 63434                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Granetes / Center punches                                                         |        |
| 5    | 63714, 63715, 63717, 63718, 63719                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Limas / Files                                                                     |        |
| 1    | 58641                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Linternas / Flashlights                                                           |        |
| 11   | 60380, 60381, 60382, 60384, 60385, 60388, 60390, 60391, 67886, 67887, 67888                                                                                                                                                                                                                                                                                                                                                                                                                                            | Llaves acodadas / Double offset ring wrenches                                     |        |
| 1    | 61110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Llaves ajustables / Adjustable wrenches                                           |        |
| 30   | 58460, 58461, 58462, 58463, 58464, 58465, 58466, 58467, 60340, 60341, 60342, 60343, 60344, 60345, 60346, 60347, 60348, 60349, 60350, 60351, 60352, 60353, 60354, 60355, 60356, 60358, 60359, 67885, 67886, 67887, 67888, 67889, 67953, 67954                                                                                                                                                                                                                                                                           | Llaves combinadas / Combination wrenches                                          |        |
| 1    | 62603                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Llaves de carraca reversible / Reversible ratchet handles                         | 1/4"   |
|      | 62606                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   | 1/2"   |
| 9    | 68283, 68284, 68285, 68286, 68287, 68288, 68289, 68290, 68292                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Llaves de gancho / Hook spanners                                                  | -      |
| 40   | 55813, 55814, 56015, 56017, 56018, 56019, 56020, 56021, 56022, 56024, 56025, 56026, 56027, 57165, 57166, 57167, 57168, 57169, 57170, 63990, 63991, 63992, 63993, 63994, 63995, 63996, 63997, 63998, 67689, 67690, 67691, 67692, 67693, 67694, 67695, 67696, 67697, 67698, 67699                                                                                                                                                                                                                                        | Llaves de vaso / Socket wrenches                                                  | 1/4"   |
| 47   | 55795, 55796, 55797, 55798, 55799, 55800, 55801, 55802, 55803, 55804, 55805, 55806, 55807, 55808, 55809, 55810, 55811, 55833, 55834, 57185, 57186, 57187, 60479, 60480, 60481, 60482, 60483, 60484, 60485, 60486, 60487, 60488, 60489, 60490, 60491, 60492, 60493, 60494, 60495, 60496, 60497, 60498, 67806, 67807, 67808, 67809, 67811                                                                                                                                                                                |                                                                                   | 1/2"   |
| 4    | 57775, 57776, 57777, 57778                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Llaves estrella planas / Double ended flat ring spanners                          |        |
| 5    | 57718, 57719, 57720, 57721, 57722                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Llaves estrella planas Torx® / Double ended flat ring spanners Torx®              |        |
| 25   | 60300, 60301, 60302, 60303, 60304, 60305, 60306, 60307, 60308, 60309, 60310, 60311, 60312, 60313, 60314, 60315, 67931, 67934, 67939, 67940, 67941, 67942, 67943, 67944, 67945                                                                                                                                                                                                                                                                                                                                          | Llaves fijas / Open-end wrenches                                                  |        |
| 12   | 58537, 58538, 58539, 58540, 58541, 58542, 58543, 58544, 58545, 58546, 58547, 58548                                                                                                                                                                                                                                                                                                                                                                                                                                     | Llaves fijas micromecánicas a 15° y 75° / 15° and 75° micromech open end wrenches |        |
| 28   | 65315, 65316, 65317, 65318, 65319, 65320, 65321, 65322, 65323, 65324, 65325, 65326, 65327, 65328, 67671, 68900, 68901, 68902, 68903, 68904, 68905, 68906, 68907, 68908, 68909, 68910, 68911, 68912                                                                                                                                                                                                                                                                                                                     | Llaves hexagonales / Hexagonal key wrenches                                       |        |
| 13   | 68914, 68915, 68916, 68917, 68918, 68919, 68920, 68921, 68922, 68923, 68924, 68925, 68926                                                                                                                                                                                                                                                                                                                                                                                                                              | Llaves hexagonales bola / Hexagonal key wrenches ball type                        | -      |
| 5    | 57148, 57149, 57150, 57151, 57152                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Llaves media luna / Half moon spanners                                            |        |
| 6    | 58752, 58753, 58754, 58755, 58756, 58758                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Llaves para racores / Flare nut spanners                                          |        |
| 5    | 65975, 65976, 65977, 65978, 65979                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Llaves Ribe® / Ribe® wrenches                                                     |        |
| 1    | 61001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Llaves Stillson / Stillson pipe wrenches                                          |        |
| 20   | 56544, 56545, 56546, 56547, 56548, 56549, 56550, 56551, 56552, 56553, 56554, 56556, 56557, 56558, 56559, 56560, 56561, 56562, 56563, 56564                                                                                                                                                                                                                                                                                                                                                                             | Llaves Tamper Torx / Tamper Torx keys                                             |        |
|      | 69504                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Magnetizador-desmagnetizador / Magnetizer-demagnetizer                            |        |
|      | 65874                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Mango articulado / Swivel handle                                                  | 1/4"   |
| 1    | 61438                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Mango corriendo en T / Sliding "T" handle                                         | 1/2"   |
|      | 61440                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   |        |
| 12   | 55326, 69521, 69601, 69603, 69612, 69614, 69617, 69618, 69620, 69675, 69681, 69701                                                                                                                                                                                                                                                                                                                                                                                                                                     | Martillos / Hammers                                                               |        |
| 5    | 68043, 68048, 68050, 68051, 68056                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Muelles curvatos / Spring tube benders                                            | -      |
|      | 65158                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Nivel magnético torpedo / Torpedo Magnetic level                                  |        |
|      | 55265                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Punta portavasos / Socket holder bit                                              | 1/4"   |
| 1    | 61695                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Puntas adaptadoras para vasos / Adapter bits for sockets                          | 1/2"   |
|      | 61697                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   |        |
| 64   | 53000, 53001, 53002, 53003, 53004, 53005, 53006, 53007, 53008, 53009, 53010, 53011, 53015, 53016, 53017, 53019, 53020, 53021, 53023, 53024, 53025, 53027, 53028, 53029, 53030, 53031, 53032, 53034, 53035, 53036, 53037, 53038, 53039, 53051, 53052, 53053, 53054, 53055, 53056, 53057, 53058, 53059, 53060, 55670, 55671, 55672, 55673, 55674, 55675, 55676, 55677, 55678, 55679, 58900, 66733, 66734, 66735, 66736, 66737, 66738, 66739, 66740, 66741, 66742                                                         | Puntas atornilladoras con vaso / Socket bits                                      | 1/4"   |
| 10   | 55684, 56985, 56986, 56987, 56988, 56989, 56990, 56991, 56992, 56993                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                   | 3/8"   |
| 72   | 53105, 53107, 53108, 53109, 53110, 53115, 53116, 53117, 53118, 53119, 53120, 53121, 53122, 53123, 53124, 53125, 53127, 53128, 53129, 53131, 53132, 53133, 53134, 53136, 53137, 53138, 53139, 53149, 53150, 53151, 53152, 53153, 53154, 53155, 53156, 53157, 53158, 53159, 55688, 55689, 55690, 55691, 55692, 55693, 55695, 55696, 56896, 56897, 65985, 65986, 65987, 65988, 65989, 65990, 65991, 65992, 66801, 66802, 66803, 66804, 66805, 66806, 66820, 66821, 66822, 66823, 66824, 66825, 66826, 66827, 66828, 66829 | Puntas atornilladoras con vaso / Socket bits                                      | 1/2"   |
| 1    | 65783                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Punzón / Awl                                                                      |        |
|      | 65831                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Reglas / Rulers                                                                   |        |
| 10   | 64671, 64672, 64673, 64674, 64675, 64676, 64677, 64678, 64679, 64680                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Sacabocados / Hollow punches                                                      | -      |
| 1    | 69570                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Sargentos / Clamps                                                                |        |
| 4    | 62123, 62145, 62177, 62795                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Tenazas / Pincers                                                                 |        |
|      | 62170                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Tijeras / Tin snips                                                               |        |
| 1    | 65846                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Vaso adaptador para puntas / Square drive bit retainer                            | 1/4"   |
|      | 87628                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Limpiador multiusos / Multi-purpose cleaner                                       | 250 ml |
|      | 63988                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Cinta de señalización de seguridad / Safety hazard signs tape                     | -      |

■ ≈ 500 PCS.

■ MM

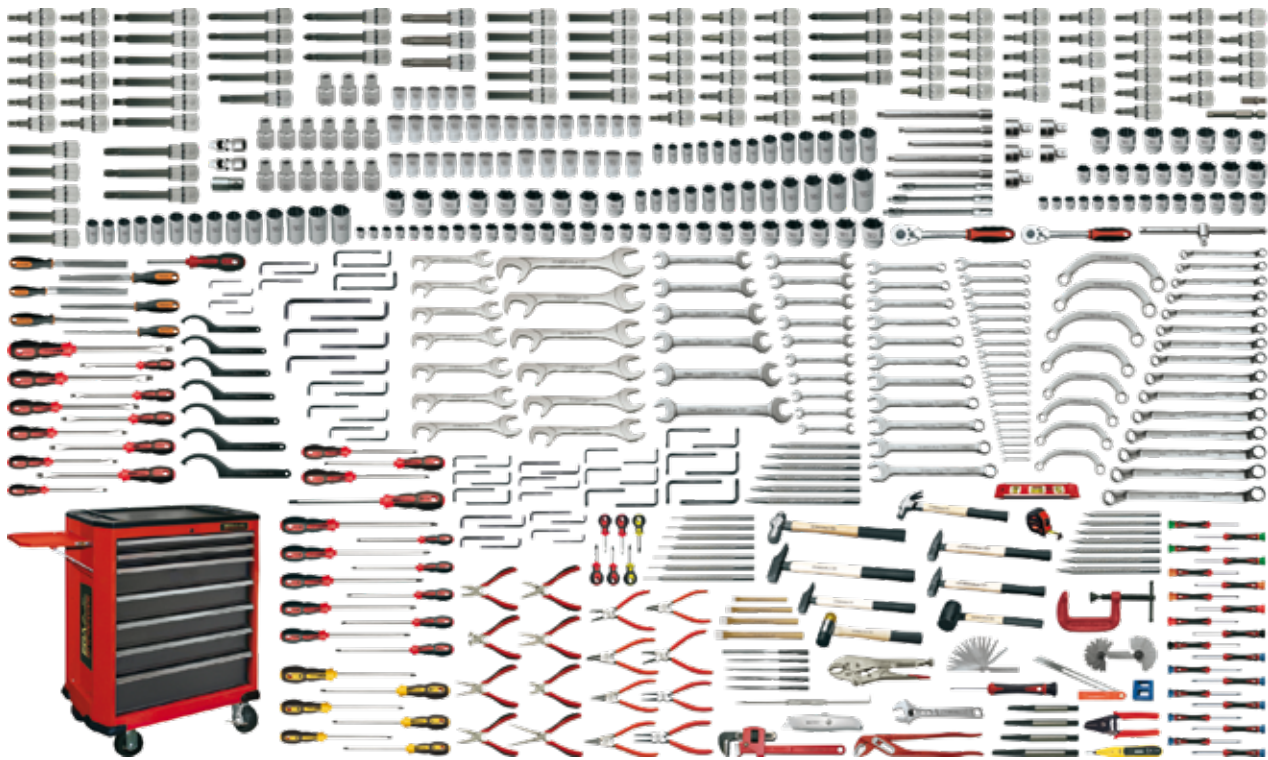


| COD.  | PCS. | Medidas en / Sizes in / Mesures en | Kg  |
|-------|------|------------------------------------|-----|
| 51701 | -    | -                                  | 50  |
| 51702 | 513  | 51039 mm                           | 120 |
| 51703 | -    | 51117                              | 175 |

| PCS. | Composición / Composition / Composition                                                                                                    | Descripción / Description / Description                     |      |
|------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------|
| 1    | 65880                                                                                                                                      |                                                             | 1/4" |
| 2    | 65881, 65884                                                                                                                               | Adaptador para llaves de vaso / Adapter for socket wrenches | 3/8" |
|      | 65882, 65885                                                                                                                               |                                                             | 1/2" |
| 1    | 65603                                                                                                                                      | Agujas de trazar / Scribers                                 | -    |
| 4    | 61442, 61443, 61444, 61445                                                                                                                 | Alargaderas / Extensions                                    | 1/4" |
| 3    | 61453, 61455, 61458                                                                                                                        |                                                             | 1/2" |
| 4    | 62331, 62339, 62341, 62343                                                                                                                 | Alicates / Pliers                                           |      |
| 8    | 62180, 62181, 62182, 62183, 62216, 62220, 62224, 62228                                                                                     | Alicates Circlips / Circlips pliers                         | -    |
| 5    | 62241, 62242, 62246, 62247, 62249                                                                                                          | Alicates mini / Mini Pliers                                 |      |
| 1    | 61435                                                                                                                                      |                                                             | 1/4" |
|      | 61437                                                                                                                                      | Articulación universal / Universal joint                    | 1/2" |
| 14   | 63387, 63388, 63389, 63390, 63391, 63392, 63393, 63408, 63409, 63410, 63411, 63412, 63413, 63414                                           | Botadores / Punches                                         |      |
| 1    | 66074                                                                                                                                      | Buscapolos / Voltage tester                                 |      |
| 4    | 62847, 62849, 62853, 62854                                                                                                                 | Cinceles / Chisels                                          | -    |
|      | 63915                                                                                                                                      | Cortabridas / Plastic tie cutters                           |      |
| 1    | 69501                                                                                                                                      | Cortadores / Cutters                                        |      |
|      | 66732                                                                                                                                      | Destornillador portavasos / Socket holder                   | 1/4" |
| 4    | 66525, 66526, 66527, 66529                                                                                                                 | Destornilladores carroceros / Stubby screwdrivers           |      |
| 11   | 66411, 66412, 66420, 66421, 66422, 66423, 66424, 66425, 66426, 66427, 66428                                                                | Destornilladores electricista / Electrician screwdrivers    |      |
|      | 66399, 66400, 66401, 66402, 66403, 66404, 66405, 66406, 66407, 66408, 66448                                                                | Destornilladores mecánicos / Slotted screwdrivers           |      |
| 20   | 57684, 66846, 66847, 66848, 66849, 66850, 66851, 66852, 66853, 66854, 57685, 66864, 66865, 66866, 66867, 66868, 66869, 66870, 66871, 66872 | Destornilladores Microtronc / Microtronic screwdrivers      | -    |
|      | 66437, 66438, 66439, 66440, 66441, 66443, 67192                                                                                            | Destornilladores Phillips® / Phillips® screwdrivers         |      |
| 7    | 66456, 66457, 66458, 66459, 66472, 66473, 67193                                                                                            | Destornilladores Pozidriv® / Pozidriv® screwdrivers         |      |
| 3    | 66530, 66531, 66532                                                                                                                        | Destornilladores Robertson / Screwdrivers Robertson         |      |
| 1    | 66492                                                                                                                                      | Destornilladores Tamper Torx / Screwdrivers Tamper Torx     |      |

| PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                                                                                                                                                                                      | Descripción / Description / Description                                           |      |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|
| 1    | 65768                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Escuadras / Squares                                                               |      |
| 4    | 61586, 61587, 61588, 61589                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Extractores de tornillos / Screw extractors                                       |      |
| 1    | 65171                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Flexómetros / Measuring tapes                                                     |      |
| 2    | 65559, 65571                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Galgas / Gauges                                                                   |      |
| 6    | 63429, 63430, 63431, 63432, 63433, 63434                                                                                                                                                                                                                                                                                                                                                                                                                                     | Granetes / Center punches                                                         |      |
| 6    | 63692, 63714, 63715, 63717, 63718, 63719                                                                                                                                                                                                                                                                                                                                                                                                                                     | Limas / Files                                                                     |      |
| 15   | 61774, 61775, 61776, 61777, 61778, 61779, 61780, 61781, 61782, 61783, 61784, 67843, 67844, 67845, 67855                                                                                                                                                                                                                                                                                                                                                                      | Llaves acodadas / Double offset ring wrenches                                     |      |
| 1    | 61112                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Llaves ajustables / Adjustable wrenches                                           |      |
| 31   | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736, 61737, 61738, 61739, 61740, 61741, 61742, 61743, 61744, 61745, 61746, 61747, 61748, 61749, 61750, 63965, 63966, 63967, 67880, 67881                                                                                                                                                                                                                                                      | Llaves combinadas / Combination wrenches                                          |      |
| 1    | 62603                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Llaves de carraca reversible / Reversible ratchet handles                         | 1/4" |
|      | 62606                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                   | 1/2" |
| 7    | 68283, 68284, 68285, 68286, 68287, 68288, 68289                                                                                                                                                                                                                                                                                                                                                                                                                              | Llaves de gancho / Hook spanners                                                  | -    |
| 41   | 55813, 55814, 56015, 56017, 56018, 56019, 56020, 56021, 56023, 56024, 56025, 56026, 56027, 57165, 57166, 57167, 57168, 57169, 57170, 63977, 63978, 63979, 63980, 63981, 63982, 63983, 63984, 63985, 63986, 63987, 67660, 67661, 67662, 67663, 67664, 67665, 67666, 67667, 67668, 67669, 67670                                                                                                                                                                                |                                                                                   | 1/4" |
| 66   | 55795, 55796, 55797, 55798, 55799, 55800, 55801, 55802, 55803, 55804, 55805, 55806, 55807, 55808, 55809, 55811, 55833, 57179, 57180, 57181, 57182, 57183, 57184, 57185, 57186, 57187, 61380, 61381, 61382, 61383, 61384, 61385, 61386, 61387, 61388, 61389, 61390, 61391, 61392, 61393, 61394, 61395, 61396, 61397, 61398, 61399, 61400, 61401, 61402, 61403, 67780, 67781, 67782, 67783, 67784, 67785, 67786, 67787, 67788, 67789, 67791, 67792, 67793, 67794, 67795, 67796 | Llaves de vaso / Socket wrenches                                                  | 1/2" |
| 14   | 61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708, 61709, 61710, 61711, 61712, 61713, 67917                                                                                                                                                                                                                                                                                                                                                                             | Llaves fijas / Open-end wrenches                                                  |      |
| 13   | 58520, 58521, 58522, 58523, 58524, 58525, 58526, 58527, 58528, 58529, 58530, 58531, 58532                                                                                                                                                                                                                                                                                                                                                                                    | Llaves fijas micromecánicas a 15° y 75° / 15° and 75° micromech open end wrenches |      |
| 32   | 61501, 61502, 61503, 61504, 61505, 61506, 61517, 61518, 61519, 61525, 61526, 61621, 61622, 61623, 61624, 65302, 65303, 65304, 65306, 65307, 65308, 65309, 65310, 65330, 65331, 65332, 65519, 65955, 65956, 65958, 67493, 67494                                                                                                                                                                                                                                               | Llaves hexagonales / Hexagonal key wrenches                                       | -    |
| 8    | 57155, 57156, 57158, 57159, 57160, 57161, 57162, 60795                                                                                                                                                                                                                                                                                                                                                                                                                       | Llaves media luna / Half moon spanners                                            |      |
| 1    | 61001                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Llaves Stillson / Stillson pipe wrenches                                          |      |
| 20   | 56544, 56545, 56546, 56547, 56548, 56549, 56550, 56551, 56552, 56553, 56554, 56556, 56557, 56558, 56559, 56560, 56561, 56562, 56563, 56564                                                                                                                                                                                                                                                                                                                                   | Llaves Tamper Torx / Tamper Torx keys                                             |      |
| 1    | 69504                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Magnetizador-desmagnetizador / Magnetizer-demagnetizer                            |      |
| 1    | 61438                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Mango correrizo en T / Sliding "T" handle                                         | 1/4" |
| 8    | 55326, 69521, 69601, 69612, 69614, 69618, 69622, 69681                                                                                                                                                                                                                                                                                                                                                                                                                       | Martillos / Hammers                                                               | -    |
| 1    | 65158                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Nivel magnético torpedo / Torpedo Magnetic level                                  |      |
|      | 55265                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Punta portavasos / Socket holder bit                                              |      |
| 59   | 53000, 53001, 53002, 53003, 53004, 53005, 53006, 53007, 53008, 53009, 53010, 53011, 53013, 53015, 53016, 53017, 53019, 53020, 53021, 53023, 53024, 53025, 53034, 53035, 53036, 53037, 53038, 53039, 53041, 53042, 53043, 53044, 53045, 53046, 53047, 53048, 53049, 53050, 55697, 55698, 55699, 55700, 58900, 66733, 66734, 66735, 66736, 66737, 66738, 66739, 66740, 66741, 66742, 66743, 66744, 66745, 66746, 66747, 67164                                                  | Puntas atornilladoras con vaso / Socket bits                                      | 1/4" |
| 48   | 53105, 53107, 53108, 53109, 53110, 53115, 53116, 53117, 53118, 53119, 53120, 53121, 53122, 53127, 53128, 53129, 53131, 53132, 53133, 53134, 53136, 53137, 53138, 53139, 55704, 55705, 55706, 55707, 55708, 66801, 66802, 66804, 66805, 66806, 66807, 66808, 66809, 66810, 66811, 66812, 66813, 66814, 66815, 66816, 66817, 66818, 67213, 67214                                                                                                                               |                                                                                   | 1/2" |
| 1    | 66280                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Puntas Stecker / Magnetic Stecker                                                 | 1/4" |
|      | 69570                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sargentos / Clamps                                                                | -    |
| 2    | 62177, 62795                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Tenazas / Pincers                                                                 |      |
| 1    | 65846                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Vaso adaptador para puntas / Square drive bit retainer                            | 1/4" |

### INCH






| COD.  | PCS. | Medidas en / Sizes in / Mesures en | Kg  |
|-------|------|------------------------------------|-----|
| 51704 | -    | -                                  | 50  |
| 51705 | 505  | 51039                              | 120 |
| 51706 | -    | 51117                              | 175 |

| PCS. | Composición / Composition / Composition                                                                                      | Descripción / Description / Description                     |      |
|------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------|
| 1    | 65880                                                                                                                        |                                                             | 1/4" |
| 2    | 65881, 65884                                                                                                                 | Adaptador para llaves de vaso / Adapter for socket wrenches | 3/8" |
|      | 65882, 65885                                                                                                                 |                                                             | 1/2" |
| 1    | 65603                                                                                                                        | Agujas de trazar / Scribers                                 | -    |
| 3    | 61442, 61444, 61445                                                                                                          | Alargaderas / Extensions                                    | 1/4" |
|      | 61453, 61455, 61458                                                                                                          |                                                             | 1/2" |
| 4    | 62331, 62339, 62341, 62343                                                                                                   | Alicates / Pliers                                           | -    |
| 8    | 62180, 62181, 62182, 62183, 62216, 62220, 62224, 62228                                                                       | Alicates Circlips / Circlips pliers                         | -    |
|      | 62241, 62242, 62243, 62244, 62245, 62246, 62247, 62249                                                                       | Alicates mini / Mini Pliers                                 | -    |
| 1    | 61435                                                                                                                        | Articulación universal / Universal joint                    | 1/4" |
|      | 61437                                                                                                                        |                                                             | 1/2" |
| 14   | 63387, 63388, 63389, 63390, 63391, 63392, 63393, 63408, 63409, 63410, 63411, 63412, 63413, 63414                             | Botadores / Punches                                         | -    |
| 1    | 66074                                                                                                                        | Buscapolos / Voltage tester                                 | -    |
| 4    | 62847, 62849, 62853, 62854                                                                                                   | Cinceles / Chisels                                          | -    |
| 1    | 69501                                                                                                                        | Cortadores / Cutters                                        | -    |
|      | 66732                                                                                                                        | Destornillador portavasos / Socket holder                   | 1/4" |
| 3    | 55371, 66526, 66527                                                                                                          | Destornilladores carroceros / Stubby screwdrivers           | -    |
| 8    | 55352, 55354, 55355, 55357, 55358, 55359, 55360, 55361                                                                       | Destornilladores electricista / Electrician screwdrivers    | -    |
| 9    | 55328, 55330, 55331, 55332, 55333, 55334, 55335, 55337, 55338                                                                | Destornilladores mecánicos / Slotted screwdrivers           | -    |
| 18   | 55449, 55450, 55451, 55452, 55453, 55457, 66850, 66851, 66852, 66853, 66854, 66866, 66867, 66868, 66869, 66870, 66871, 66872 | Destornilladores Microtronico / Microtronic screwdrivers    | -    |
| 7    | 66437, 66438, 66439, 66440, 66441, 66443, 67192                                                                              | Destornilladores Phillips® / Phillips® screwdrivers         | -    |
|      | 66456, 66457, 66458, 66459, 66472, 66473, 67193                                                                              | Destornilladores Pozidriv® / Pozidriv® screwdrivers         | -    |
| 3    | 66530, 66531, 66532                                                                                                          | Destornilladores Robertson / Screwdrivers Robertson         | -    |
| 11   | 66487, 66488, 66489, 66490, 66491, 66492, 66493, 66494, 66495, 66496, 66497                                                  | Destornilladores Tamper Torx / Screwdrivers Tamper Torx     | -    |
| 1    | 65768                                                                                                                        | Escuadras / Squares                                         | -    |
| 7    | 61583, 61584, 61585, 61586, 61587, 61588, 61589                                                                              | Extractores de tornillos / Screw extractors                 | -    |

| PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Descripción / Description / Description                                           |      |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|
| 1    | 65361                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Flexómetros / Measuring tapes                                                     |      |
| 6    | 63429, 63430, 63431, 63432, 63433, 63434                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Granetes / Center punches                                                         |      |
| 5    | 63714, 63715, 63717, 63718, 63719                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Limas / Files                                                                     |      |
| 11   | 60380, 60381, 60382, 60384, 60385, 60388, 60390, 60391, 67886, 67887, 67888                                                                                                                                                                                                                                                                                                                                                                                                                | Llaves acodadas / Double offset ring wrenches                                     | -    |
| 1    | 61110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Llaves ajustables / Adjustable wrenches                                           |      |
| 30   | 58460, 58461, 58462, 58463, 58464, 58465, 58466, 58467, 60340, 60341, 60342, 60343, 60344, 60345, 60346, 60347, 60348, 60349, 60350, 60351, 60352, 60353, 60354, 60355, 60356, 60358, 67878, 67885, 67953, 67954                                                                                                                                                                                                                                                                           | Llaves combinadas / Combination wrenches                                          |      |
| 1    | 62603                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Llaves de carraca reversible / Reversible ratchet handles                         | 1/4" |
|      | 62606                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                   | 1/2" |
| 7    | 68283, 68284, 68285, 68286, 68287, 68288, 68289                                                                                                                                                                                                                                                                                                                                                                                                                                            | Llaves de gancho / Hook spanners                                                  | -    |
| 27   | 57165, 57166, 57167, 57168, 57169, 57170, 63989, 63990, 63991, 63992, 63993, 63994, 63995, 63996, 63997, 63998, 67689, 67690, 67691, 67692, 67693, 67694, 67695, 67696, 67697, 67698, 67699                                                                                                                                                                                                                                                                                                | Llaves de vaso / Socket wrenches                                                  | 1/4" |
| 26   | 57185, 57186, 57187, 60479, 60480, 60481, 60482, 60483, 60484, 60485, 60486, 60487, 60488, 60489, 60490, 60491, 60492, 60493, 60494, 60495, 60496, 60497, 60498, 67807, 67809, 67811                                                                                                                                                                                                                                                                                                       |                                                                                   | 1/2" |
| 4    | 57775, 57776, 57777, 57778                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Llaves estrella planas / Double ended flat ring spanners                          |      |
| 25   | 60300, 60301, 60302, 60303, 60304, 60305, 60306, 60307, 60308, 60309, 60310, 60311, 60312, 60313, 60314, 60315, 67931, 67934, 67939, 67940, 67941, 67942, 67943, 67944, 67945                                                                                                                                                                                                                                                                                                              | Llaves fijas / Open-end wrenches                                                  |      |
| 10   | 58537, 58538, 58539, 58540, 58541, 58542, 58543, 58544, 58545, 58546                                                                                                                                                                                                                                                                                                                                                                                                                       | Llaves fijas micromecánicas a 15° y 75° / 15° and 75° micromech open end wrenches |      |
| 28   | 65315, 65316, 65317, 65318, 65319, 65320, 65321, 65322, 65323, 65324, 65325, 65326, 65327, 65328, 67671, 68900, 68901, 68902, 68903, 68904, 68905, 68906, 68907, 68908, 68909, 68910, 68911, 68912                                                                                                                                                                                                                                                                                         | Llaves hexagonales / Hexagonal key wrenches                                       |      |
| 12   | 68914, 68915, 68916, 68917, 68918, 68919, 68920, 68921, 68922, 68923, 68924, 68925                                                                                                                                                                                                                                                                                                                                                                                                         | Llaves hexagonales bola / Hexagonal key wrenches ball type                        | -    |
| 5    | 57148, 57149, 57150, 57151, 57152                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Llaves media luna / Half moon spanners                                            |      |
| 1    | 61001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Llaves Stillson / Stillson pipe wrenches                                          |      |
| 20   | 56544, 56545, 56546, 56547, 56548, 56549, 56550, 56551, 56552, 56553, 56554, 56556, 56557, 56558, 56559, 56560, 56561, 56562, 56563, 56564                                                                                                                                                                                                                                                                                                                                                 | Llaves Tamper Torx / Tamper Torx keys                                             |      |
| 1    | 69504                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Magnetizador-desmagnetizador / Magnetizer-demagnetizer                            |      |
| 7    | 55326, 69521, 69601, 69614, 69620, 69681, 69701                                                                                                                                                                                                                                                                                                                                                                                                                                            | Martillos / Hammers                                                               |      |
|      | 65158                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Nivel magnético torpedo / Torpedo Magnetic level                                  |      |
| 1    | 55265                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Punta portavasos / Socket holder bit                                              | 1/4" |
|      | 61695                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Puntas adaptadoras para vasos / Adapter bits for sockets                          | 1/2" |
|      | 61697                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                   |      |
| 64   | 53000, 53001, 53002, 53003, 53004, 53005, 53006, 53007, 53008, 53009, 53010, 53011, 53015, 53016, 53017, 53019, 53020, 53021, 53023, 53024, 53025, 53027, 53028, 53029, 53030, 53031, 53032, 53034, 53035, 53036, 53037, 53038, 53039, 53051, 53052, 53053, 53054, 53055, 53056, 53057, 53058, 53059, 53060, 55670, 55671, 55672, 55673, 55674, 55675, 55676, 55677, 55678, 55679, 58900, 66733, 66734, 66735, 66736, 66737, 66738, 66739, 66740, 66741, 66742                             |                                                                                   | 1/4" |
| 10   | 55684, 56985, 56986, 56987, 56988, 56989, 56990, 56991, 56992, 56993                                                                                                                                                                                                                                                                                                                                                                                                                       | Puntas atornilladoras con vaso / Socket bits                                      | 3/8" |
| 64   | 53105, 53107, 53108, 53109, 53110, 53111, 53112, 53113, 53114, 53115, 53116, 53117, 53118, 53119, 53120, 53121, 53122, 53123, 53124, 53125, 53127, 53128, 53129, 53131, 53132, 53133, 53134, 53136, 53137, 53138, 53139, 53149, 53150, 53151, 53152, 53153, 53154, 53155, 53156, 53157, 53158, 53159, 55688, 55689, 55690, 55691, 55692, 55693, 55695, 55696, 56896, 56897, 66801, 66802, 66803, 66804, 66805, 66806, 66820, 66821, 66822, 66823, 66824, 66825, 66826, 66827, 66828, 66829 |                                                                                   | 1/2" |
| 1    | 65783                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Punzón / Awl                                                                      |      |
|      | 65831                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Reglas / Rulers                                                                   | -    |
| 2    | 62177, 62795                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Tenazas / Pincers                                                                 |      |
| 1    | 65846                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Vaso adaptador para puntas / Square drive bit retainer                            | 1/4" |

- 428 PCS.
- MM / INCH



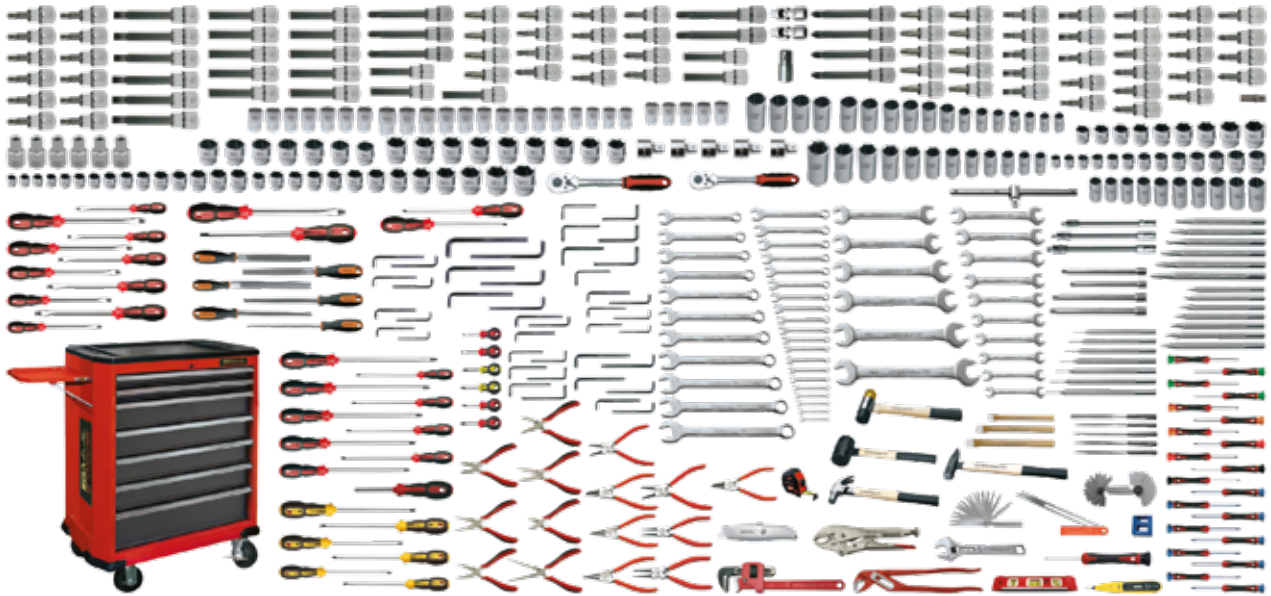
| COD.  | PCS. |  | Medidas en / Sizes in / Mesures en |  |  Kg |
|-------|------|-------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 68962 | -    | -                                                                                   | -                                  | -                                                                                     | 110                                                                                      |
| 68963 | 428  | 51039                                                                               | mm/inch                            | -                                                                                     | 160                                                                                      |
| 55766 | -    | 50954 (2)                                                                           | -                                  | ●                                                                                     | 500                                                                                      |



| PCS. | Composición / Composition / Composition                                                                                                                                                     | Descripción / Description / Description                                                                                   |                    |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------|
| 20   | 62214, 62215, 62216, 62217, 62218, 62219, 62220, 62221, 62222, 62223, 62224, 62225, 62226, 62227, 62228, 62229, 62180, 62181, 62182, 62183                                                  | Alicates Circlips / Circlips pliers                                                                                       | -                  |
| 27   | 66400, 66401, 66403, 66405, 66407, 66408, 66409, 66410, 76620, 76621, 76622, 76624, 76625, 76626, 76627, 66438, 66439, 66440, 66441, 66442, 76629, 76630, 66456, 66457, 66458, 66459, 66460 | Destornilladores mecánicos, electricistas, Phillips®, Pozidriv® / Slotted, electrician, Phillips®, Pozidriv® screwdrivers | -                  |
| 26   | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736, 61737, 61738, 61739, 61740, 61741, 61742, 61743, 61744, 61745, 61746, 61747, 61748, 61749, 61750        | Llaves combinadas / Combination wrenches                                                                                  | mm                 |
| 17   | 60340, 60341, 60342, 60343, 60344, 60345, 60346, 60347, 60348, 60349, 60350, 60351, 60352, 60353, 60354, 60355, 60356                                                                       | Llaves combinadas / Combination wrenches                                                                                  | inch               |
| 12   | 61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708, 61709, 61710, 61711, 61713                                                                                                          | Llaves fijas / Open-end wrenches                                                                                          | mm                 |
|      | 60300, 60301, 60302, 60303, 60304, 60306, 60309, 60310, 60311, 60312, 60313, 60314                                                                                                          | Llaves fijas / Open-end wrenches                                                                                          | inch               |
|      | 61775, 61776, 61777, 61778, 61779, 61780, 61781, 61782, 61783, 61784, 61785, 61787                                                                                                          | Llaves acodadas / Double offset ring wrenches                                                                             | mm                 |
| 25   | 60380, 60381, 60382, 60383, 60384, 60386, 60389, 60390, 60391, 60392, 60393, 60394                                                                                                          | Llaves acodadas / Double offset ring wrenches                                                                             | inch               |
|      | 61960                                                                                                                                                                                       | Juego / Set                                                                                                               | 1/2", mm, 26 pcs   |
| 26   | 61963                                                                                                                                                                                       | Juego / Set                                                                                                               | 1/2", inch, 26 pcs |
|      | 61870, 61871, 61872, 61873, 61874, 61875, 61876, 61877, 61878, 61879, 61880, 61881, 61882, 61883, 61884, 61885, 61886, 61887, 61888, 61889, 61890, 61891, 61892, 61893, 61894, 61895        | Llaves de pipa / Angled sockets                                                                                           | -                  |
| 23   | 65302, 65303, 65304, 65305, 65306, 65307, 65308, 65309, 65310, 65311, 65312, 65313, 65314, 61501, 61502, 61503, 61504, 61505, 61506, 61507, 61508, 61509, 61510                             | Llaves hexagonales / Hexagonal keys                                                                                       | mm                 |
| 15   | 65315, 65316, 65317, 65318, 65319, 65320, 65321, 65322, 65323, 65324, 65325, 65326, 65327, 65328, 65329                                                                                     | Llaves hexagonales / Hexagonal keys                                                                                       | inch               |
| 7    | 63401, 63402, 63403, 63404, 63405, 63406, 63407                                                                                                                                             | Botadores octogonales / Octagonal punches                                                                                 | -                  |
| 6    | 63435, 63436, 63437, 63438, 63439, 63440                                                                                                                                                    | Granetes hexagonales / Hexagonal center punches                                                                           | -                  |
| 3    | 63178, 63179, 63180                                                                                                                                                                         | Cortafíos / Chisel                                                                                                        | -                  |
| 10   | 62331, 62332, 62333, 62339, 62340, 62341, 62342, 62343, 62344, 62349                                                                                                                        | Alicates / Pliers                                                                                                         | -                  |
| 9    | 62241, 62242, 62243, 62244, 62245, 62246, 62247, 62248, 62249                                                                                                                               | Alicates mini / Mini Pliers                                                                                               | -                  |
| 2    | 62135, 62134                                                                                                                                                                                | Tenazas de canal / Box joint pincers                                                                                      | -                  |
| 1    | 61112                                                                                                                                                                                       | Llave ajustable / Adjustable wrench                                                                                       | -                  |
| 2    | 62587, 62590                                                                                                                                                                                | Extractores / Gear pullers                                                                                                | -                  |
| 1    | 63748                                                                                                                                                                                       | Arco de sierra / Hack Saw                                                                                                 | -                  |
|      | 62963                                                                                                                                                                                       | Llave dinamométrica reversible / Reversible torque wrench                                                                 | 1/2", 40-200 nm    |
| 7    | 69619, 69622, 69614, 69750, 69752, 69729, 69521                                                                                                                                             | Martillos / Hammers                                                                                                       | -                  |
| 33   | 66942                                                                                                                                                                                       | Juego puntas / Bits set                                                                                                   | -                  |
| 1    | 61016                                                                                                                                                                                       | Llave HD / HD Pipe wrench                                                                                                 | 12"                |
| 3    | 62177, 62178, 62172                                                                                                                                                                         | Tenazas Grip / Grip pincers                                                                                               | -                  |
| 6    | 63498, 63534, 63570, 63606, 63642, 63678                                                                                                                                                    | Limas / Files                                                                                                             | -                  |
| 1    | 62233                                                                                                                                                                                       | Tijera de chapa / Tin snip                                                                                                | -                  |
|      | 69534                                                                                                                                                                                       | Tijera electricista / Electrician's scissors                                                                              | -                  |
|      | 65479                                                                                                                                                                                       | Calibre / Caliper                                                                                                         | -                  |
| 3    | 69570, 69572, 69575                                                                                                                                                                         | Sargentos G / G Clamps                                                                                                    | -                  |
| 1    | 65155                                                                                                                                                                                       | Nivel trapezoidal profesional / Professional bridge type spirit level                                                     | 400 mm             |
|      | 66731                                                                                                                                                                                       | Destornillador portapuntas magnético / Screwdriver magnetic bitholder                                                     | -                  |
| 10   | 60693                                                                                                                                                                                       | Juego de vasos impacto / Impact socket sets                                                                               | mm                 |
| 11   | 61267                                                                                                                                                                                       | Juego de vasos impacto / Impact socket sets                                                                               | inch               |
| 1    | 62124                                                                                                                                                                                       | Tenaza rusa / Tower pincer                                                                                                | 9", 10"            |
| 2    | 62438, 62440                                                                                                                                                                                | Tenaza carpintero / Carpenter pincer                                                                                      | -                  |
| 4    | 69529                                                                                                                                                                                       | Set 4 pinzas / Set 4 tweezers                                                                                             | -                  |
| 1    | 62493                                                                                                                                                                                       | Alicata de terminales / Crimping pliers                                                                                   | -                  |
| 12   | 66846, 66848, 66849, 66850, 66851, 66852, 66853, 66854, 57684, 57685, 66864, 66865                                                                                                          | Juego destornilladores Microtronic / Microtronic screwdriver set                                                          | -                  |
| 1    | 69504                                                                                                                                                                                       | Magnetizador-desmagnetizador / Magnetizer-demagnetizer                                                                    | -                  |
|      | 65362                                                                                                                                                                                       | Flexómetros / Measuring tape                                                                                              | 3m/10'             |
| 6    | 63714, 63715, 63716, 63717, 63718, 63719                                                                                                                                                    | Limas de aguja / Needle files                                                                                             | -                  |
|      | 65595                                                                                                                                                                                       | Recogedor telescópico / Telescopic joing pick up                                                                          | -                  |
|      | 65586                                                                                                                                                                                       | Espejo articulado / Joint telescopic mirror                                                                               | -                  |
| 1    | 65774                                                                                                                                                                                       | Regla / Ruler                                                                                                             | 300 mm             |
|      | 63119                                                                                                                                                                                       | Cortatubos cobre / Cooper tube cutter                                                                                     | 42 mm              |
|      | 63376                                                                                                                                                                                       | Rasqueta / Scraper                                                                                                        | -                  |
| 7    | 63208                                                                                                                                                                                       | Cepillos / Brushes                                                                                                        | -                  |
|      | 68172                                                                                                                                                                                       | Set curvatubos carraca / Ratchet tube bender set                                                                          | mm                 |
|      | 68001                                                                                                                                                                                       | Abocinador / Pulg flaring tool                                                                                            | inch               |
| 1    | 63172                                                                                                                                                                                       | Cortatubos acero / Steel tube cutter                                                                                      | 2"                 |
|      | 63205                                                                                                                                                                                       | Cortatubos plástico Piraina / Piraina plastic pipe cutter                                                                 | -                  |
|      | 62200                                                                                                                                                                                       | Cortavarillas / Bolt cutters                                                                                              | 8"                 |
| 9    | 69501                                                                                                                                                                                       | Cortadores / Cutters                                                                                                      | -                  |
|      | 64615                                                                                                                                                                                       | Set sierra de coronas / Bimetal hole saws set                                                                             | -                  |
| 1    | 66073                                                                                                                                                                                       | Buscapolos / Voltage tester                                                                                               | -                  |

■ ≈ 400 PCS.

■ MM

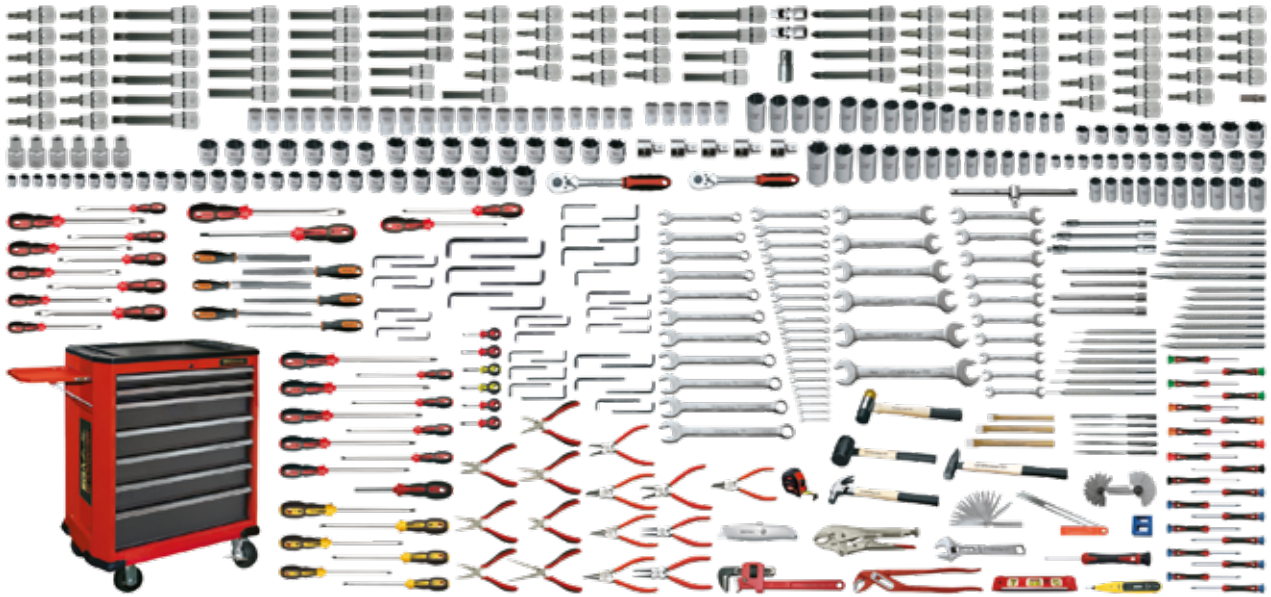


| COD.  | PCS. |       | Medidas en / Sizes in / Mesures en |   |     |
|-------|------|-------|------------------------------------|---|-----|
| 51707 |      | -     |                                    |   | 39  |
| 51708 | 413  | 51039 | mm                                 | - | 110 |
| 51709 |      | 50954 |                                    | ● | 150 |

| PCS. | Composición / Composition / Composition                                                                                                    | Descripción / Description / Description                     |      |
|------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------|
| 1    | 65880                                                                                                                                      |                                                             | 1/4" |
| 2    | 65881, 65884                                                                                                                               | Adaptador para llaves de vaso / Adapter for socket wrenches | 3/8" |
|      | 65882, 65885                                                                                                                               |                                                             | 1/2" |
| 4    | 61442, 61443, 61444, 61445                                                                                                                 |                                                             | 1/4" |
| 2    | 61455, 61458                                                                                                                               | Alargaderas / Extensions                                    | 1/2" |
| 4    | 62331, 62339, 62341, 62343                                                                                                                 | Alicates / Pliers                                           |      |
| 8    | 62180, 62181, 62182, 62183, 62216, 62220, 62224, 62228                                                                                     | Alicates Circlips / Circlips pliers                         | -    |
| 4    | 62241, 62242, 62246, 62247                                                                                                                 | Alicates mini / Mini Pliers                                 |      |
| 1    | 61435                                                                                                                                      | Articulación universal / Universal joint                    | 1/4" |
|      | 61437                                                                                                                                      |                                                             | 1/2" |
| 14   | 63387, 63388, 63389, 63390, 63391, 63392, 63393, 63408, 63409, 63410, 63411, 63412, 63413, 63414                                           | Botadores / Punches                                         |      |
| 1    | 66074                                                                                                                                      | Buscapolos / Voltage tester                                 | -    |
| 3    | 62847, 62849, 62853                                                                                                                        | Cinceles / Chisels                                          |      |
| 1    | 69501                                                                                                                                      | Cortadores / Cutters                                        |      |
|      | 66732                                                                                                                                      | Destornillador portavasos / Socket holder                   | 1/4" |
| 4    | 66525, 66526, 66527, 66529                                                                                                                 | Destornilladores carroceros / Stubby screwdrivers           |      |
| 10   | 66411, 66412, 66420, 66421, 66422, 66423, 66424, 66425, 66426, 66428                                                                       | Destornilladores electricista / Electrician screwdrivers    |      |
| 11   | 66399, 66400, 66401, 66402, 66403, 66404, 66405, 66406, 66407, 66408, 66448                                                                | Destornilladores mecánicos / Slotted screwdrivers           |      |
| 20   | 57684, 66846, 66847, 66848, 66849, 66850, 66851, 66852, 66853, 66854, 57685, 66864, 66865, 66866, 66867, 66868, 66869, 66870, 66871, 66872 | Destornilladores Microtronic / Microtronic screwdrivers     |      |
| 7    | 66437, 66438, 66439, 66440, 66441, 66443, 67192                                                                                            | Destornilladores Phillips® / Phillips® screwdrivers         |      |
|      | 66456, 66457, 66458, 66459, 66472, 66473, 67193                                                                                            | Destornilladores Pozidriv® / Pozidriv® screwdrivers         |      |
| 2    | 66531, 66532                                                                                                                               | Destornilladores Robertson / Screwdrivers Robertson         | -    |
|      | 66492                                                                                                                                      | Destornilladores Tamper Torx / Screwdrivers Tamper Torx     |      |
| 1    | 65768                                                                                                                                      | Escuadras / Squares                                         |      |
|      | 65171                                                                                                                                      | Flexómetros / Measuring tapes                               |      |
| 2    | 65559, 65571                                                                                                                               | Galgas / Gauges                                             |      |
| 6    | 63429, 63430, 63431, 63432, 63433, 63434                                                                                                   | Granetes / Center punches                                   |      |
|      | 63692, 63714, 63715, 63717, 63718, 63719                                                                                                   | Limas / Files                                               |      |
| 1    | 61112                                                                                                                                      | Llaves ajustables / Adjustable wrenches                     |      |

| PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                                                                                                                | Descripción / Description / Description                   |      |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|------|
| 31   | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736, 61737, 61738, 61739, 61740, 61741, 61742, 61743, 61744, 61745, 61746, 61747, 61748, 61749, 61750, 63965, 63966, 63967, 67880, 67881                                                                                                                                                                                | Llaves combinadas / Combination wrenches                  | -    |
| 1    | 62603                                                                                                                                                                                                                                                                                                                                                                                                  | Llaves de carraca reversible / Reversible ratchet handles | 1/4" |
|      | 62606                                                                                                                                                                                                                                                                                                                                                                                                  |                                                           | 1/2" |
| 35   | 55813, 55814, 56015, 56017, 56018, 56019, 56020, 56021, 56023, 56024, 56025, 56026, 56027, 63977, 63978, 63979, 63980, 63981, 63982, 63983, 63984, 63985, 63986, 63987, 67660, 67661, 67662, 67663, 67664, 67665, 67666, 67667, 67668, 67669, 67670                                                                                                                                                    |                                                           | 1/4" |
| 56   | 55795, 55796, 55797, 55798, 55799, 55800, 55801, 55802, 55803, 55804, 55811, 57179, 57180, 57181, 57182, 57183, 57184, 61380, 61381, 61382, 61383, 61384, 61385, 61386, 61387, 61388, 61389, 61390, 61391, 61392, 61393, 61394, 61395, 61396, 61397, 61398, 61399, 61400, 61401, 61402, 67780, 67781, 67782, 67783, 67784, 67785, 67786, 67787, 67788, 67789, 67791, 67792, 67793, 67794, 67795, 67796 | Llaves de vaso / Socket wrenches                          | 1/2" |
| 14   | 61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708, 61709, 61710, 61711, 61712, 61713, 67917                                                                                                                                                                                                                                                                                                       | Llaves fijas / Open-end wrenches                          |      |
| 29   | 61501, 61502, 61503, 61504, 61505, 61506, 61517, 61518, 61519, 61525, 61526, 61621, 61622, 61623, 61624, 65302, 65303, 65304, 65306, 65307, 65308, 65330, 65331, 65332, 65519, 65955, 65956, 67493, 67494                                                                                                                                                                                              | Llaves hexagonales / Hexagonal key wrenches               | -    |
| 1    | 61001                                                                                                                                                                                                                                                                                                                                                                                                  | Llaves Stillson / Stillson pipe wrenches                  |      |
| 11   | 56544, 56545, 56546, 56547, 56548, 56549, 56550, 56551, 56552, 56553, 56554                                                                                                                                                                                                                                                                                                                            | Llaves Tamper Torx / Tamper Torx keys                     |      |
| 1    | 69504                                                                                                                                                                                                                                                                                                                                                                                                  | Magnetizador-desmagnetizador / Magnetizer-demagnetizer    |      |
|      | 61438                                                                                                                                                                                                                                                                                                                                                                                                  | Mango correrizo en T / Sliding "T" handle                 | 1/4" |
| 4    | 55326, 69521, 69614, 69622                                                                                                                                                                                                                                                                                                                                                                             | Martillos / Hammers                                       |      |
| 1    | 65158                                                                                                                                                                                                                                                                                                                                                                                                  | Nivel magnético torpedo / Torpedo Magnetic level          | -    |
|      | 55265                                                                                                                                                                                                                                                                                                                                                                                                  | Punta portavasos / Socket holder bit                      |      |
| 53   | 53000, 53001, 53002, 53003, 53004, 53005, 53006, 53007, 53008, 53009, 53010, 53011, 53013, 53015, 53016, 53017, 53019, 53020, 53021, 53023, 53024, 53025, 53041, 53042, 53043, 53044, 53045, 53046, 53047, 53048, 53049, 53050, 55697, 55698, 55699, 55700, 58900, 66733, 66734, 66735, 66736, 66737, 66738, 66739, 66740, 66741, 66742, 66743, 66744, 66745, 66746, 66747, 67164                      | Puntas atornilladoras con vaso / Socket bits              | 1/4" |
| 42   | 53105, 53107, 53108, 53109, 53110, 53115, 53116, 53117, 53118, 53119, 53120, 53127, 53128, 53129, 53131, 53132, 53133, 53136, 53137, 53138, 55704, 55705, 55708, 66801, 66802, 66804, 66805, 66806, 66807, 66808, 66809, 66810, 66811, 66812, 66813, 66814, 66815, 66816, 66817, 66818, 67213, 67214                                                                                                   |                                                           | 1/2" |
| 2    | 62177, 62795                                                                                                                                                                                                                                                                                                                                                                                           | Tenazas / Pincers                                         | -    |
| 1    | 65846                                                                                                                                                                                                                                                                                                                                                                                                  | Vaso adaptador para puntas / Square drive bit retainer    | 1/4" |

### INCH



| COD.  | PCS. | Medidas en / Sizes in / Mesures en | Kg  |
|-------|------|------------------------------------|-----|
| 51710 | -    | -                                  | 37  |
| 51711 | 414  | 51039                              | 105 |
| 51712 | -    | 50954                              | 150 |

| PCS. | Composición / Composition / Composition                                                                                                                                | Descripción / Description / Description                     |      |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------|
| 1    | 65880                                                                                                                                                                  |                                                             | 1/4" |
| 2    | 65881, 65884                                                                                                                                                           | Adaptador para llaves de vaso / Adapter for socket wrenches | 3/8" |
|      | 65882, 65885                                                                                                                                                           |                                                             | 1/2" |
| 1    | 65603                                                                                                                                                                  | Agujas de trazar / Scribers                                 | -    |
| 3    | 61442, 61444, 61445                                                                                                                                                    | Alargaderas / Extensions                                    | 1/4" |
|      | 61453, 61455, 61458                                                                                                                                                    |                                                             | 1/2" |
| 4    | 62331, 62339, 62341, 62343                                                                                                                                             | Alicates / Pliers                                           | -    |
| 8    | 62180, 62181, 62182, 62183, 62216, 62220, 62224, 62228                                                                                                                 | Alicates Circlips / Circlips pliers                         | -    |
| 6    | 62241, 62242, 62243, 62245, 62246, 62247                                                                                                                               | Alicates mini / Mini Pliers                                 | -    |
| 1    | 61435                                                                                                                                                                  | Articulación universal / Universal joint                    | 1/4" |
|      | 61437                                                                                                                                                                  |                                                             | 1/2" |
| 14   | 63387, 63388, 63389, 63390, 63391, 63392, 63393, 63408, 63409, 63410, 63411, 63412, 63413, 63414                                                                       | Botadores / Punches                                         | -    |
| 1    | 66074                                                                                                                                                                  | Buscapolos / Voltage tester                                 | -    |
| 2    | 62847, 62849                                                                                                                                                           | Cinceles / Chisels                                          | -    |
| 1    | 69501                                                                                                                                                                  | Cortadores / Cutters                                        | -    |
|      | 66732                                                                                                                                                                  | Destornillador portavasos / Socket holder                   | 1/4" |
| 3    | 55371, 66526, 66527                                                                                                                                                    | Destornilladores carroceros / Stubby screwdrivers           | -    |
| 8    | 55352, 55354, 55355, 55357, 55358, 55359, 55360, 55361                                                                                                                 | Destornilladores electricista / Electrician screwdrivers    | -    |
| 9    | 55328, 55330, 55331, 55332, 55333, 55334, 55335, 55337, 55338                                                                                                          | Destornilladores mecánicos / Slotted screwdrivers           | -    |
| 19   | 55449, 55450, 55451, 55452, 55453, 55457, 55458, 66850, 66851, 66852, 66853, 66854, 66866, 66867, 66868, 66869, 66870, 66871, 66872                                    | Destornilladores Microtronc / Microtronic screwdrivers      | -    |
| 7    | 66437, 66438, 66439, 66440, 66441, 66443, 67192                                                                                                                        | Destornilladores Phillips® / Phillips® screwdrivers         | -    |
|      | 66456, 66457, 66458, 66459, 66472, 66473, 67193                                                                                                                        | Destornilladores Pozidriv® / Pozidriv® screwdrivers         | -    |
| 3    | 66530, 66531, 66532                                                                                                                                                    | Destornilladores Robertson / Screwdrivers Robertson         | -    |
| 11   | 66487, 66488, 66489, 66490, 66491, 66492, 66493, 66494, 66495, 66496, 66497                                                                                            | Destornilladores Tamper Torx / Screwdrivers Tamper Torx     | -    |
| 1    | 65768                                                                                                                                                                  | Escuadras / Squares                                         | -    |
|      | 65361                                                                                                                                                                  | Flexómetros / Measuring tapes                               | -    |
| 6    | 63429, 63430, 63431, 63432, 63433, 63434                                                                                                                               | Granetes / Center punches                                   | -    |
| 5    | 63714, 63715, 63717, 63718, 63719                                                                                                                                      | Limas / Files                                               | -    |
| 1    | 61110                                                                                                                                                                  | Llaves ajustables / Adjustable wrenches                     | -    |
| 24   | 58460, 58461, 58462, 58463, 58464, 60340, 60341, 60342, 60343, 60344, 60345, 60346, 60347, 60348, 60349, 60351, 60352, 60353, 60354, 60356, 67878, 67885, 67953, 67954 | Llaves combinadas / Combination wrenches                    | -    |
| 1    | 62603                                                                                                                                                                  | Llaves de carraca reversible / Reversible ratchet handles   | 1/4" |

| PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                                                                                                                                                                        | Descripción / Description / Description                    |      |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------|
| 1    | 62606                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Llaves de carraca reversible / Reversible ratchet handles  | 1/2" |
| 21   | 63989, 63990, 63991, 63992, 63993, 63994, 63995, 63996, 63997, 63998, 67689, 67690, 67691, 67692, 67693, 67694, 67695, 67696, 67697, 67698, 67699                                                                                                                                                                                                                                                                                                              | Llaves de vaso / Socket wrenches                           | 1/4" |
| 23   | 60479, 60480, 60481, 60482, 60483, 60484, 60485, 60486, 60487, 60488, 60489, 60490, 60491, 60492, 60493, 60494, 60495, 60496, 60497, 60498, 67807, 67809, 67811                                                                                                                                                                                                                                                                                                | Llaves hexagonales / Hexagonal key wrenches                | 1/2" |
| 25   | 60300, 60301, 60302, 60303, 60304, 60305, 60306, 60307, 60308, 60309, 60310, 60311, 60312, 60313, 60314, 60315, 67931, 67934, 67939, 67940, 67941, 67942, 67943, 67944, 67945                                                                                                                                                                                                                                                                                  | Llaves hexagonales bola / Hexagonal key wrenches ball type | -    |
| 28   | 65315, 65316, 65317, 65318, 65319, 65320, 65321, 65322, 65323, 65324, 65325, 65326, 65327, 65328, 67671, 68900, 68901, 68902, 68903, 68904, 68905, 68906, 68907, 68908, 68909, 68910, 68911, 68912                                                                                                                                                                                                                                                             | Llaves Stillson / Stillson pipe wrenches                   | -    |
| 12   | 68914, 68915, 68916, 68917, 68918, 68919, 68920, 68921, 68922, 68923, 68924, 68925                                                                                                                                                                                                                                                                                                                                                                             | Llaves Tamper Torx / Tamper Torx keys                      | -    |
| 1    | 61001                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Magnetizador-desmagnetizador / Magnetizer-demagnetizer     | -    |
| 20   | 56544, 56545, 56546, 56547, 56548, 56549, 56550, 56551, 56552, 56553, 56554, 56556, 56557, 56558, 56559, 56560, 56561, 56562, 56563, 56564                                                                                                                                                                                                                                                                                                                     | Martillos / Hammers                                        | -    |
| 1    | 69504                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Nivel magnético torpedo / Torpedo Magnetic level           | -    |
| 4    | 55326, 69601, 69614, 69620                                                                                                                                                                                                                                                                                                                                                                                                                                     | Punta portavasos / Socket holder bit                       | 1/4" |
|      | 65158                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Puntas adaptadoras para vasos / Adapter bits for sockets   | 1/2" |
| 1    | 55265                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                            |      |
|      | 61695                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                            |      |
|      | 61697                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                            |      |
| 64   | 53000, 53001, 53002, 53003, 53004, 53005, 53006, 53007, 53008, 53009, 53010, 53011, 53015, 53016, 53017, 53019, 53020, 53021, 53023, 53024, 53025, 53027, 53028, 53029, 53030, 53031, 53032, 53034, 53035, 53036, 53037, 53038, 53039, 53051, 53052, 53053, 53054, 53055, 53056, 53057, 53058, 53059, 53060, 55670, 55671, 55672, 55673, 55674, 55675, 55676, 55677, 55678, 55679, 58900, 66733, 66734, 66735, 66736, 66737, 66738, 66739, 66740, 66741, 66742 | Puntas atornilladoras con vaso / Socket bits               | 1/4" |
| 7    | 56985, 56986, 56987, 56988, 56990, 56991, 56992                                                                                                                                                                                                                                                                                                                                                                                                                |                                                            | 3/8" |
| 41   | 53105, 53107, 53108, 53109, 53110, 53115, 53116, 53117, 53118, 53119, 53120, 53121, 53122, 53123, 53124, 53125, 53127, 53128, 53129, 53131, 53132, 53133, 53134, 53136, 53137, 53138, 53139, 55688, 55689, 55690, 55691, 55692, 55693, 55695, 55696, 66801, 66802, 66803, 66804, 66805, 66806                                                                                                                                                                  |                                                            | 1/2" |
| 1    | 65783                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Punzón / Awl                                               | -    |
|      | 65831                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Reglas / Rulers                                            | -    |
| 2    | 62177, 62795                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Tenazas / Pincers                                          | -    |
| 1    | 65846                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Vaso adaptador para puntas / Square drive bit retainer     | 1/4" |

■ 290 PCS.  
■ MM / INCH






| COD.  | PCS. |       | Medidas en / Sizes in / Mesures en |   | Kg |
|-------|------|-------|------------------------------------|---|----|
| 69774 |      | -     |                                    |   | 26 |
| 69775 | 290  | 51075 | mm/inch                            | - | 75 |
| 69784 |      |       |                                    | ● |    |

| PCS. | Composición / Composition / Composition                                                          | Descripción / Description / Description                            |                       |
|------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------|
| 3    | 62214, 62222, 62183                                                                              | Alicates Circlips / Circlips pliers                                |                       |
| 7    | 62340, 62342, 62344, 62333, 62337, 62346, 62338                                                  | Alicates / Pliers                                                  |                       |
| 1    | 62494                                                                                            | Alicate de terminales / Crimping pliers                            | -                     |
| 9    | 62651, 62653, 62654, 62655, 62656, 62657, 62659, 62660, 62662                                    | Llaves combinadas de carraca / Combination ratchet wrenches        |                       |
| 6    | 62666, 62667, 62668, 62669, 62671, 62673                                                         |                                                                    |                       |
| 13   | 60340, 60341, 60342, 60343, 60344, 60345, 60347, 60348, 60349, 60351, 60352, 60353, 60354        | Llaves combinadas / Combination wrenches                           | inch                  |
| 14   | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736, 61737, 61738 |                                                                    | mm                    |
| 1    | 65550                                                                                            | Galgas de espesores / Feeler gauge                                 |                       |
|      | 69501                                                                                            | Cortadores / Cutters                                               |                       |
| 4    | 63429, 63431, 63432, 63436                                                                       | Granetes / Center punches                                          |                       |
| 1    | 62828                                                                                            | Extractor / Gear puller                                            |                       |
|      | 62847                                                                                            | Cinzel mecánico / Flat cold chisel                                 | -                     |
| 7    | 63408, 63409, 63410, 63411, 63412, 63413, 63414                                                  | Botadores cónicos / Taper punch                                    |                       |
|      | 63394, 63395, 63396, 63397, 63398, 63399, 63400                                                  | Botadores cilíndricos / Pin punches                                |                       |
|      | 62707                                                                                            | Tenaza de canal / Box joint                                        |                       |
| 1    | 61500                                                                                            | Juego llaves Allen / Allen keys wrenches Set                       | mm                    |
|      | 61516                                                                                            |                                                                    | inch                  |
|      | 61496                                                                                            | Juego llaves Allen bola / Set of hexagonal key wrenches ball type  | mm                    |
|      | 61495                                                                                            |                                                                    | inch                  |
| 4    | 66438, 66439, 66440, 66441                                                                       | Destornilladores Phillips® / Phillips® screwdrivers                |                       |
| 3    | 66402, 66403, 66405                                                                              | Destornilladores mecánicos / Slotted screwdrivers                  |                       |
| 4    | 66420, 66422, 66423, 66425                                                                       | Destornilladores electricistas / Electrician screwdrivers          |                       |
| 2    | 66457, 66458                                                                                     | Destornilladores Pozidriv® / Pozidriv® screwdrivers                |                       |
| 33   | 66942                                                                                            | Juego puntas / Bits set                                            | -                     |
| 4    | 66733, 66734, 66735, 66736                                                                       | Puntas atornilladoras con vaso planas / Flat socket bits           |                       |
| 3    | 66737, 66738, 66739                                                                              | Puntas atornilladoras con vaso Phillips® / Phillips® socket bits   |                       |
| 5    | 66743, 66744, 66745, 66746, 66747                                                                | Puntas atornilladoras con vaso hexagonales / Hexagonal socket bits |                       |
| 9    | 66748, 66749, 66750, 66751, 66752, 66753, 66754, 66755, 66756                                    | Puntas atornilladoras con vaso Torx® / Torx® socket bits           |                       |
| 24   | 61791                                                                                            |                                                                    | mm/inch, 1/4", 24 pcs |
| 42   | 61792                                                                                            | Juego vasos / Socket set                                           | mm/inch, 3/8", 42 pcs |
| 41   | 61793                                                                                            |                                                                    | mm/inch, 1/2", 41 pcs |

■ 213 PCS.  
 ■ MM / INCH



| COD.  | PCS. |  | Medidas en / Sizes in / Mesures en |  |  |
|-------|------|------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 59148 |      | -                                                                                  |                                    |                                                                                      | 28                                                                                   |
| 59149 | 213  | 51674                                                                              | mm/inch                            | -                                                                                    | 70                                                                                   |
| 59150 |      | 51025                                                                              |                                    | ●                                                                                    | 80                                                                                   |

| PCS. | Composición / Composition / Composition                                                                               | Descripción / Description / Description                |      |
|------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------|
| 5    | 62332, 62338, 62340, 62341, 62343                                                                                     | Alicates / Pliers                                      |      |
| 4    | 62180, 62181, 62182, 62183                                                                                            | Alicates Circlips / Circlips pliers                    |      |
| 1    | 62091                                                                                                                 | Alicates tipo Ford / Slip joint pliers                 |      |
| 14   | 63394, 63395, 63396, 63397, 63398, 63399, 63400, 63422, 63423, 63424, 63425, 63426, 63427, 63428                      | Botadores / Punches                                    |      |
| 1    | 62871                                                                                                                 | Buriles planos / Crosscut chisels                      |      |
|      | 61578                                                                                                                 | Cepillo / Brushes                                      |      |
| 2    | 62849, 63472                                                                                                          | Cinceles / Chisels                                     | -    |
| 1    | 66070                                                                                                                 | Destornillador buscapolos / Voltage tester screwdriver |      |
| 2    | 66937, 67190                                                                                                          | Destornilladores carroceros / Stubby screwdrivers      |      |
| 6    | 66874, 66875, 66877, 66879, 66881, 66882                                                                              | Destornilladores mecánicos / Slotted screwdrivers      |      |
| 5    | 66897, 66898, 66899, 66900, 67131                                                                                     | Destornilladores Phillips® / Phillips® screwdrivers    |      |
| 7    | 66917, 66919, 66921, 66922, 66923, 66924, 66926                                                                       | Destornilladores Torx® / Screwdrivers Torx®            |      |
| 1    | 65172                                                                                                                 | Flexómetros / Measuring tapes                          |      |
| 10   | 61500                                                                                                                 | Juego llaves hexagonales / Set hexagonal key wrenches  | mm   |
| 36   | 58720, 61963                                                                                                          | Juego vasos / Socket set                               | 1/2" |
| 62   | 58691, 58695                                                                                                          | Juego Vasos / Socket set                               | 1/4" |
| 5    | 63537, 63573, 63609, 63645, 63681                                                                                     | Limas / Files                                          | -    |
| 12   | 60380, 60381, 60382, 60383, 60384, 60386, 60389, 60390, 60391, 60392, 60393, 60394                                    | Llaves acodadas / Double offset ring wrenches          |      |
| 17   | 60340, 60341, 60342, 60343, 60344, 60345, 60346, 60347, 60348, 60349, 60350, 60351, 60352, 60353, 60354, 60355, 60356 | Llaves combinadas / Combination wrenches               | inch |
| 12   | 60300, 60301, 60302, 60303, 60304, 60306, 60309, 60310, 60311, 60312, 60313, 60314                                    | Llaves fijas / Open-end wrenches                       |      |
| 2    | 55326, 69621                                                                                                          | Martillos / Hammers                                    |      |
| 1    | 65388                                                                                                                 | Navajas / Penknives                                    |      |
|      | 65588                                                                                                                 | Recogedor telescópico / Telescopic joint pick up       | -    |
| 3    | 62128, 62140, 62172                                                                                                   | Tenazas / Pincers                                      |      |
| 1    | 62170                                                                                                                 | Tijeras / Tin snips                                    |      |
|      | 69534                                                                                                                 | Tijeras electricista / Electrician's scissors          |      |

■ 191 PCS.  
■ MM / INCH



| COD.  | PCS. | Medidas en / Sizes in / Mesures en | Kg  |
|-------|------|------------------------------------|-----|
| 68964 |      | -                                  | 39  |
| 68965 | 191  | mm/inch                            | 80  |
| 55767 |      | ●                                  | 195 |

| PCS. | Composición / Composition / Composition                                                                                                                                                                                            | Descripción / Description / Description                                                                                                          |                          |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 16   | 62214, 62215, 62216, 62217, 62218, 62219, 62220, 62221, 62222, 62223, 62224, 62225, 62226, 62227, 62228, 62229                                                                                                                     | Alicates Circlips / Circlips pliers                                                                                                              | -                        |
| 18   | 66400, 66401, 66403, 66407, 66408, 76621, 76622, 76624, 76625, 76626, 66439, 66440, 66441, 76629, 76630, 66457, 66458, 66459                                                                                                       | Destornilladores mecánicos, electricistas, Phillips®, Pozidriv® / Slotted, electrician, Phillips®, Pozidriv® screwdrivers                        | -                        |
| 12   | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736<br>60341, 60342, 60343, 60344, 60345, 60347, 60348, 60349, 60351, 60352, 60353, 60354<br>61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708 | Llaves combinadas / Combination wrenches                                                                                                         | mm<br>inch               |
| 8    | 60302, 60303, 60304, 60306, 60309, 60310, 60311, 60312<br>61775, 61776, 61777, 61778, 61779, 61780, 61781, 61782<br>60382, 60383, 60384, 60385, 60386, 60389, 60390, 60391                                                         | Llaves fijas / Open-end wrenches<br>Llaves acodadas / Double offset ring wrenches                                                                | mm<br>inch<br>mm<br>inch |
| 17   | 61796<br>61798                                                                                                                                                                                                                     | Juego llaves vaso / Socket wrench set                                                                                                            | 1/2", mm<br>1/2", inch   |
| 10   | 61503, 61504, 61505, 61506, 61508, 61509, 61510, 65307, 65308, 65310<br>65318, 65319, 65320, 65321, 65322, 65323, 65324, 65325, 65326, 65327                                                                                       | Llaves hexagonales / Hexagonal keys                                                                                                              | mm<br>inch               |
| 5    | 63402, 63403, 63404, 63405, 63406                                                                                                                                                                                                  | Botadores / Punches                                                                                                                              | -                        |
| 2    | 63178, 63179,                                                                                                                                                                                                                      | Cortafíos / Chisel                                                                                                                               | -                        |
| 4    | 62340, 62343, 62344, 62349                                                                                                                                                                                                         | Alicates / Pliers                                                                                                                                | -                        |
| 1    | 62135<br>61112                                                                                                                                                                                                                     | Tenazas de canal / Box joint pincers<br>Llave ajustable / Adjustable wrench                                                                      | -                        |
| 2    | 62587, 62590                                                                                                                                                                                                                       | Extractores / Gear pullers                                                                                                                       | -                        |
| 1    | 63748                                                                                                                                                                                                                              | Arco de sierra / Hack Saw                                                                                                                        | -                        |
| 4    | 69619, 69622, 69614, 69750                                                                                                                                                                                                         | Martillos / Hammers                                                                                                                              | -                        |
| 1    | 61016                                                                                                                                                                                                                              | Llave HD / HD Pipe wrench                                                                                                                        | 12"                      |
| 3    | 62177, 62178, 62172                                                                                                                                                                                                                | Tenazas Grip / Grip pincers                                                                                                                      | -                        |
| 6    | 63498, 63534, 63570, 63606, 63642, 63678                                                                                                                                                                                           | Limas / Files                                                                                                                                    | -                        |
|      | 62233                                                                                                                                                                                                                              | Tijera de chapa / Tin snip                                                                                                                       | -                        |
|      | 69534                                                                                                                                                                                                                              | Tijera electricista / Electrician's scissors                                                                                                     | -                        |
| 1    | 65479<br>69572<br>62124                                                                                                                                                                                                            | Calibre / Caliper<br>Sargentos G / G Clamps<br>Tenaza rusa / Tower pincer                                                                        | -<br>-<br>10"            |
| 2    | 62438, 62440                                                                                                                                                                                                                       | Tenaza carpintero / Carpenter pincer                                                                                                             | -                        |
| 4    | 69529<br>62493<br>65362                                                                                                                                                                                                            | Set 4 pinzas / Set 4 tweezers<br>Alicate de terminales / Crimping pliers<br>Flexómetros / Measuring tape                                         | -<br>-<br>3 m/10'        |
| 1    | 65595<br>63119<br>69501<br>66073                                                                                                                                                                                                   | Recogedor telescópico / Telescopic joing pick up<br>Cortatubos cobre / Cooper tube cutter<br>Cortadores / Cutters<br>Buscapolos / Voltage tester | -<br>42 mm<br>-<br>-     |



■ 181 PCS.

■ INCH



| COD.  | PCS.  | Medidas en / Sizes in / Mesures en | Kg  |
|-------|-------|------------------------------------|-----|
| 59151 | -     | -                                  | 45  |
| 59152 | 181   | inch                               | 140 |
| 59153 | 50950 | -                                  | 145 |

| PCS. | Composición / Composition / Composition                                                                 | Descripción / Description / Description                                 |                 |
|------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------|
| 9    | 62299, 62300, 62337, 62338, 62346, 62349, 62495, 62498, 62500                                           | Alicates / Pliers                                                       |                 |
| 4    | 62214, 62218, 62222, 62226                                                                              | Alicates Circlips / Circlips pliers                                     |                 |
| 2    | 63299, 63742                                                                                            | Arcos de sierra / Hack saws                                             |                 |
| 8    | 63394, 63395, 126792, 63397, 63398, 63399, 63400, 63416                                                 | Botadores / Punches                                                     |                 |
| 1    | 62871                                                                                                   | Buriles planos / Crosscut chisels                                       |                 |
| 2    | 62847, 62848                                                                                            | Cinceles / Chisels                                                      |                 |
| 1    | 63874                                                                                                   | Cortadores / Cutters                                                    |                 |
| 9    | 55373, 55374, 55375, 55376, 55378, 55379, 55380, 55382, 55383                                           | Destornilladores de vaso / Socket screwdrivers                          |                 |
| 7    | 66571, 66572, 66573, 66574, 66575, 66576, 66577                                                         | Destornilladores T-Mastertork / T-Mastertork screwdrivers               |                 |
|      | 67021                                                                                                   | Espátulas / Scrapers                                                    |                 |
| 1    | 65357                                                                                                   | Flexómetros / Measuring tapes                                           |                 |
|      | 63436                                                                                                   | Granetes / Center punches                                               |                 |
| 5    | 61591                                                                                                   | Juego de extractores de tornillos / Set of screw extractors             |                 |
| 4    | 67206                                                                                                   | Juego de palancas boca curva / Set of pry bars                          |                 |
| 1    | 61495                                                                                                   | Juego llaves hexagonales bola / Set hexagonal key wrenches ball type    | inch            |
| 25   | 61963                                                                                                   |                                                                         | 3/8"            |
| 14   | 61862                                                                                                   | Juego vasos / Socket set                                                | 1/2"            |
| 16   | 61962                                                                                                   |                                                                         | 3/4"            |
| 1    | 62951                                                                                                   | Llave dinamoétrica reversible / Reversible torque wrench                | 1/4", 2,5-12 Nm |
| 2    | 61111, 61112                                                                                            | Llaves ajustables / Adjustable wrenches                                 | -               |
| 15   | 60342, 60343, 60344, 60345, 60347, 60348, 60349, 60351, 60352, 60353, 60354, 60355, 60356, 60357, 60358 | Llaves combinadas / Combination wrenches                                | inch            |
| 6    | 62666, 62667, 62668, 62669, 62672, 62673                                                                | Llaves combinadas de carraca / Combination ratchet wrenches             |                 |
| 1    | 62603                                                                                                   | Llaves de carraca reversible / Reversible ratchet handles               |                 |
| 11   | 60420, 60421, 60422, 60423, 60424, 60425, 60426, 60427, 60428, 60429, 60430                             | Llaves de vaso / Socket wrenches                                        | 1/4"            |
| 12   | 60300, 60301, 60302, 60303, 60304, 60306, 60309, 60310, 60311, 60312, 60313, 60314                      | Llaves fijas / Open-end wrenches                                        | inch            |
| 2    | 61015, 61017                                                                                            | Llaves heavy duty / Heavy duty wrenches                                 |                 |
| 1    | 61405                                                                                                   | Llaves para tubo Mastergrip / Mastergrip pipe wrenches                  |                 |
|      | 57581                                                                                                   | Llaves refinera para tubo y válvulas / Refinery pipe and valve wrenches | -               |
| 3    | 69614, 69750, 72766                                                                                     | Martillos / Hammers                                                     |                 |
| 1    | 65388                                                                                                   | Navajas / Penknives                                                     |                 |
| 9    | 55682, 55683, 55684, 55685, 55686, 55687, 56990, 56991, 56992                                           | Puntas atornilladoras con vaso / Socket bits                            | 3/8"            |
| 1    | 69572                                                                                                   | Sargentos / Clamps                                                      |                 |
|      | 62172                                                                                                   | Tenazas / Pincers                                                       | -               |
| 2    | 62159, 62234                                                                                            | Tijeras / Tin snips                                                     |                 |

■ 171 PCS.

■ MM



| COD.  | PCS. |  | Medidas en / Sizes in / Mesures en |  | Kg |
|-------|------|-----------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------|----|
| 55793 |      | -                                                                                 |                                    |                                                                                     | 22 |
| 55794 | 171  | 51025                                                                             | mm                                 | -                                                                                   | 70 |
| 69989 |      |                                                                                   |                                    |                                                                                     |    |

| PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                                          | Descripción / Description / Description                                                                                |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| 12   | 66400, 66401, 66403, 66405, 66439, 66440, 66478, 66479, 66480, 66481, 66483, 66484                                                                                                                                                                                                                                               | Destornilladores Mastertork: mecánico, Phillips®, Torx® / Screwdrivers Mastertork: slotted, Phillips®, Torx®           |
| 3    | 62332, 62339, 62343                                                                                                                                                                                                                                                                                                              | Alicates Titacrom®: universal, telefonista y corte diagonal / Pliers Titacrom®: combination, long nose, diagonal plier |
| 26   | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736, 61737, 61738, 61739, 61740, 61741, 61742, 61743, 61744, 61745, 61746, 61747, 61748, 61749, 61750                                                                                                                                             | Llaves combinadas cromado aeroespacial / Aerospaceal chrome plating combination wrenches                               |
| 46   | 61800, 61801, 61802, 61803, 61804, 61805, 61806, 61807, 61808, 61809, 61810, 61811, 61812, 61813, 61814, 61815, 61816, 61817, 61818, 61819, 61822, 61823, 61311, 61312, 61313, 61314, 61315, 61316, 61317, 61318, 61319, 61320, 61321, 65044, 65045, 65046, 65047, 65048, 65049, 65050, 65051, 65052, 65053, 65054, 65055, 65056 | Llaves de vaso / Socket wrenches                                                                                       |
| 2    | 61438, 61440                                                                                                                                                                                                                                                                                                                     | Mango correrizo en T / Sliding "T" handle                                                                              |
| 4    | 61442, 61444, 61455, 61458                                                                                                                                                                                                                                                                                                       | Alargadera / Extension                                                                                                 |
|      | 62603, 61431                                                                                                                                                                                                                                                                                                                     | Llave de carraca reversible / Reversible ratchet handle                                                                |
| 2    | 61435, 61437                                                                                                                                                                                                                                                                                                                     | Articulación universal / Universal joint                                                                               |
| 1    | 66731                                                                                                                                                                                                                                                                                                                            | Destornillador portapuntas magnético / Screwdriver magnetic bit holder                                                 |
| 15   | 58230, 58231, 58232, 58242, 58243, 58247, 58248, 58253, 58254, 58255, 58164, 58165, 58271, 58155, 58272                                                                                                                                                                                                                          | Puntas de destornillador Masterbit / Masterbit bits                                                                    |
| 3    | 61501, 61502, 61503                                                                                                                                                                                                                                                                                                              | Llaves hexagonales / Hexagonal keys                                                                                    |
| 1    | 66264                                                                                                                                                                                                                                                                                                                            | Adaptador portapuntas magnético / Magnetic bit holder                                                                  |
| 13   | 66733, 66734, 66735, 66737, 66738, 66740, 66741, 66748, 66750, 66751, 66752, 66753, 66755                                                                                                                                                                                                                                        | Puntas atornilladoras con vaso / Socket bits                                                                           |
| 1    | 63742                                                                                                                                                                                                                                                                                                                            | Arco de sierra / Hack Saw                                                                                              |
| 3    | 62169, 62170, 62171                                                                                                                                                                                                                                                                                                              | Tijera articulada / Aviation tin snip                                                                                  |
| 1    | 63876                                                                                                                                                                                                                                                                                                                            | Cortadores / Cutters                                                                                                   |
| 3    | 63178, 63179, 63180                                                                                                                                                                                                                                                                                                              | Cortafíos / Chisel                                                                                                     |
| 6    | 63394, 63395, 63396, 63397, 63398, 63399                                                                                                                                                                                                                                                                                         | Botador / Pin punch                                                                                                    |
| 1    | 69621                                                                                                                                                                                                                                                                                                                            | Martillo alemán / German type machinist's hammer                                                                       |
|      | 55326                                                                                                                                                                                                                                                                                                                            | Maceta de nylon / Nylon hammer                                                                                         |
| 11   | 63498, 63570, 63606, 63642, 63678, 63714, 63715, 63716, 63717, 63718, 63719                                                                                                                                                                                                                                                      | Limas / Files                                                                                                          |
| 4    | 62180, 62181, 62182, 62183                                                                                                                                                                                                                                                                                                       | Alicates Circlips / Circlips pliers                                                                                    |
|      | 62172                                                                                                                                                                                                                                                                                                                            | Tenaza Grip / Grip plier                                                                                               |
|      | 61944                                                                                                                                                                                                                                                                                                                            | Llave ajustable / Adjustable wrench                                                                                    |
|      | 62707                                                                                                                                                                                                                                                                                                                            | Tenaza de canal / Box joint                                                                                            |
|      | 69534                                                                                                                                                                                                                                                                                                                            | Tijera electricista / Electrician's scissors                                                                           |
| 1    | 62494                                                                                                                                                                                                                                                                                                                            | Tenaza para engastar / Crimping plier                                                                                  |
|      | 62151                                                                                                                                                                                                                                                                                                                            | Tenaza cortacables / Cable cutters                                                                                     |
|      | 65167                                                                                                                                                                                                                                                                                                                            | Flexómetro / Measuring tape                                                                                            |
|      | 65293                                                                                                                                                                                                                                                                                                                            | Nivel trapezoidal profesional / Professional bridge type spirit level                                                  |
|      | 65480                                                                                                                                                                                                                                                                                                                            | Calibre / Caliper                                                                                                      |
|      | 66073                                                                                                                                                                                                                                                                                                                            | Buscapolos / Voltage tester                                                                                            |

■ 110 PCS.

■ INCH



| COD.  | PCS. | Medidas en / Sizes in / Mesures en | Kg |
|-------|------|------------------------------------|----|
| 59145 |      | -                                  | 11 |
| 59146 | 110  | inch                               | 50 |
| 59147 |      | ●                                  | 55 |

| PCS. | Composición / Composition / Composition                                                                                                                                | Descripción / Description / Description                                           |      |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|
| 1    | 65884                                                                                                                                                                  | Adaptador para llaves de vaso / Adapter for socket wrenches                       | 3/8" |
|      | 65603                                                                                                                                                                  | Agujas de trazar / Scribers                                                       | -    |
| 2    | 61442, 61444                                                                                                                                                           | Alargaderas / Extensions                                                          | 1/4" |
|      | 61447, 61459                                                                                                                                                           |                                                                                   | 3/8" |
|      | 62344, 62499                                                                                                                                                           | Alicates / Pliers                                                                 | -    |
|      | 62091                                                                                                                                                                  | Alicates tipo Ford / Slip joint pliers                                            | -    |
| 1    | 61435                                                                                                                                                                  | Articulación universal / Universal joint                                          | 1/4" |
|      | 61436                                                                                                                                                                  |                                                                                   |      |
|      | 61409                                                                                                                                                                  | Berbiquí / Speeder Handle                                                         | 3/8" |
| 2    | 66937, 66938                                                                                                                                                           | Destornilladores carroceros / Stubby screwdrivers                                 |      |
| 4    | 66876, 66878, 66880, 66882                                                                                                                                             | Destornilladores mecánicos / Slotted screwdrivers                                 |      |
|      | 66901                                                                                                                                                                  | Destornilladores Phillips® / Phillips® screwdrivers                               | -    |
| 1    | 66843                                                                                                                                                                  | Destornilladores portapuntas / Bit holder screwdrivers                            |      |
|      | 65570                                                                                                                                                                  | Galgas / Gauges                                                                   |      |
| 10   | 61495                                                                                                                                                                  | Juego llaves hexagonales bola / Set hexagonal key wrenches ball type              |      |
| 2    | 63289, 63290                                                                                                                                                           | Llave de carraca doble Mastergear / Mastergear double ratchet wrench              | inch |
| 13   | 60340, 60341, 60342, 60343, 60344, 60345, 60347, 60348, 60349, 60351, 60352, 60353, 67878                                                                              | Llaves combinadas / Combination wrenches                                          |      |
| 1    | 62603                                                                                                                                                                  | Llaves de carraca reversible / Reversible ratchet handles                         | 1/4" |
|      | 62604                                                                                                                                                                  |                                                                                   | 3/8" |
| 20   | 63989, 63990, 63991, 63992, 63993, 63994, 63995, 63996, 63997, 63998, 67690, 67691, 67692, 67693, 67694, 67695, 67696, 67697, 67698, 67699                             | Llaves de vaso / Socket wrenches                                                  | 1/4" |
| 24   | 60439, 60440, 60442, 60443, 60444, 60445, 60447, 60448, 60449, 60450, 60451, 60452, 67750, 67751, 67752, 67753, 67754, 67755, 67757, 67758, 67759, 67760, 67761, 67762 | Llaves de vaso articuladas / Universal sockets                                    | 3/8" |
| 5    | 57288, 57289, 57290, 57291, 57292                                                                                                                                      | Llaves fijas micromecánicas a 15° y 75° / 15° and 75° micromech open end wrenches | inch |
| 6    | 58544, 58545, 58546, 58547, 58548, 58549                                                                                                                               | Mango articulado / Swivel handle                                                  |      |
| 1    | 65875                                                                                                                                                                  | Mango correrizo en T / Sliding "T" handle                                         | 3/8" |
|      | 61439                                                                                                                                                                  |                                                                                   |      |
| 2    | 69614, 69750                                                                                                                                                           | Martillos / Hammers                                                               | -    |
| 1    | 55685                                                                                                                                                                  | Puntas atornilladoras con vaso / Socket bits                                      | 3/8" |
| 2    | 62106, 62178                                                                                                                                                           | Tenazas / Pincers                                                                 | -    |

■ 109 PCS.

■ INCH



| COD.  | PCS. |       | Medidas en / Sizes in / Mesures en |    |
|-------|------|-------|------------------------------------|----|
| 59154 | 109  | 58609 | inch                               | 30 |

| PCS. | Composición / Composition / Composition                                                                                                                                | Descripción / Description / Description                                           |      |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|
| 1    | 65884                                                                                                                                                                  | Adaptador para llaves de vaso / Adapter for socket wrenches                       | 3/8" |
|      | 65603                                                                                                                                                                  | Agujas de trazar / Scribers                                                       | -    |
|      | 61442, 61444                                                                                                                                                           |                                                                                   | 1/4" |
| 2    | 61447, 61459                                                                                                                                                           | Alargaderas / Extensions                                                          | 3/8" |
|      | 62344, 62499                                                                                                                                                           | Alicates / Pliers                                                                 | -    |
|      | 62091                                                                                                                                                                  | Alicates tipo Ford / Slip joint pliers                                            | -    |
| 1    | 61435                                                                                                                                                                  | Articulación universal / Universal joint                                          | 1/4" |
|      | 61436                                                                                                                                                                  |                                                                                   | -    |
|      | 61409                                                                                                                                                                  | Berbiquí / Speeder Handle                                                         | 3/8" |
| 2    | 66937, 66938                                                                                                                                                           | Destornilladores carroceros / Stubby screwdrivers                                 | -    |
| 4    | 66876, 66878, 66880, 66882                                                                                                                                             | Destornilladores mecánicos / Slotted screwdrivers                                 | -    |
|      | 66901                                                                                                                                                                  | Destornilladores Phillips® / Phillips® screwdrivers                               | -    |
| 1    | 66843                                                                                                                                                                  | Destornilladores portapuntas / Bitholder screwdrivers                             | -    |
|      | 65570                                                                                                                                                                  | Galgas / Gauges                                                                   | -    |
| 10   | 61495                                                                                                                                                                  | Juego llaves hexagonales bola / Set hexagonal key wrenches ball type              | -    |
| 1    | 63290                                                                                                                                                                  | Llave de carraca doble Mastergear / Mastergear double ratchet wrench              | inch |
| 13   | 60340, 60341, 60342, 60343, 60344, 60345, 60347, 60348, 60349, 60351, 60352, 60353, 67878                                                                              | Llaves combinadas / Combination wrenches                                          | -    |
| 1    | 62603                                                                                                                                                                  | Llaves de carraca reversible / Reversible ratchet handles                         | 1/4" |
|      | 62604                                                                                                                                                                  |                                                                                   | 3/8" |
| 20   | 63989, 63990, 63991, 63992, 63993, 63994, 63995, 63996, 63997, 63998, 67690, 67691, 67692, 67693, 67694, 67695, 67696, 67697, 67698, 67699                             | Llaves de vaso / Socket wrenches                                                  | 1/4" |
| 24   | 60439, 60440, 60442, 60443, 60444, 60445, 60447, 60448, 60449, 60450, 60451, 60452, 67750, 67751, 67752, 67753, 67754, 67755, 67757, 67758, 67759, 67760, 67761, 67762 |                                                                                   | 3/8" |
| 5    | 57288, 57289, 57290, 57291, 57292                                                                                                                                      | Llaves de vaso articuladas / Universal sockets                                    | 1/4" |
| 6    | 58544, 58545, 58546, 58547, 58548, 58549                                                                                                                               | Llaves fijas micromecánicas a 15° y 75° / 15° and 75° micromech open end wrenches | inch |
| 1    | 65875                                                                                                                                                                  | Mango articulado / Swivel handle                                                  | -    |
|      | 61439                                                                                                                                                                  | Mango correrizo en T / Sliding "T" handle                                         | 3/8" |
| 2    | 69614, 69750                                                                                                                                                           | Martillos / Hammers                                                               | -    |
| 1    | 55685                                                                                                                                                                  | Puntas atornilladoras con vaso / Socket bits                                      | 3/8" |
| 2    | 62106, 62178                                                                                                                                                           | Tenazas / Pincers                                                                 | -    |

**JUEGOS MANTENIMIENTO INDUSTRIAL / INDUSTRIAL MAINTENANCE SETS / SETS DE MAINTENANCE INDUSTRIELLE / INDUSTRIELLE INSTANDHALTUNG SETS / KIT MANUTENZIONE INDUSTRIALE / JOGOS DE MANUTENÇÃO INDUSTRIAL / ИНДУСТРИАЛЬНЫЕ НАБОРЫ**
■ 299 PCS.

■ MM


| COD.  | PCS. | Medidas en / Sizes in / Mesures en | Kg  |
|-------|------|------------------------------------|-----|
| 68966 | -    | -                                  | 65  |
| 68967 | 299  | 51039 mm                           | 115 |
| 55768 | -    | 57060                              | 320 |

| PCS. | Composición / Composition / Composition                                                                                                                                                     | Descripción / Description / Description                                                                                   |                  |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------|
| 20   | 62214, 62215, 62216, 62217, 62218, 62219, 62220, 62221, 62222, 62223, 62224, 62225, 62226, 62227, 62228, 62229, 62180, 62181, 62182, 62183                                                  | Alicates Circlips / Circlips pliers                                                                                       | -                |
| 27   | 66400, 66401, 66403, 66405, 66407, 66408, 66409, 66410, 76620, 76621, 76622, 76624, 76625, 76626, 76627, 66438, 66439, 66440, 66441, 66442, 76629, 76630, 66456, 66457, 66458, 66459, 66460 | Destornilladores mecánicos, electricistas, Phillips®, Pozidriv® / Slotted, electrician, Phillips®, Pozidriv® screwdrivers | -                |
| 26   | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736, 61737, 61738, 61739, 61740, 61741, 61742, 61743, 61744, 61745, 61746, 61747, 61748, 61749, 61750        | Llaves combinadas / Combination wrenches                                                                                  | mm               |
| 12   | 61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708, 61709, 61710, 61711, 61713, 61775, 61776, 61777, 61778, 61779, 61780, 61781, 61782, 61783, 61784, 61785, 61787                      | Llaves fijas / Open-end wrenches<br>Llaves acodadas / Double offset ring wrenches                                         |                  |
| 25   | 61960                                                                                                                                                                                       | Juego / Set                                                                                                               | 1/2", mm, 26 pcs |
| 12   | 61872, 61874, 61875, 61877, 61878, 61881, 61883, 61886, 61888, 61891, 61894, 61895                                                                                                          | Llaves de pipa / Angled sockets                                                                                           | mm               |
| 14   | 61501, 61502, 61503, 61504, 61505, 61506, 61508, 61509, 61510, 65307, 65308, 65310, 65311, 65313                                                                                            | Llaves hexagonales / Hexagonal keys                                                                                       |                  |
| 7    | 63401, 63402, 63403, 63404, 63405, 63406, 63407                                                                                                                                             | Botadores / Punches                                                                                                       |                  |
| 2    | 63178, 63179                                                                                                                                                                                | Cortafíos / Chisel                                                                                                        |                  |
| 10   | 62331, 62332, 62333, 62339, 62340, 62341, 62342, 62343, 62344, 62349                                                                                                                        | Alicates / Pliers                                                                                                         |                  |
| 2    | 62135, 62134                                                                                                                                                                                | Tenazas de canal / Box joint pincers                                                                                      | -                |
| 1    | 61112                                                                                                                                                                                       | Llave ajustable / Adjustable wrench                                                                                       |                  |
| 2    | 62587, 62590                                                                                                                                                                                | Extractores / Gear pullers                                                                                                |                  |
| 1    | 63748                                                                                                                                                                                       | Arco de sierra / Hack Saw                                                                                                 |                  |
| 29   | 61958                                                                                                                                                                                       | Juego vasos / Socket set                                                                                                  | 1/4"             |
| 1    | 62963                                                                                                                                                                                       | Llave dinamométrica reversible / Reversible torque wrench                                                                 | 1/2", 40-200 nm  |
| 4    | 69619, 69622, 69614, 69750                                                                                                                                                                  | Martillos / Hammers                                                                                                       | -                |
| 33   | 66942                                                                                                                                                                                       | Juego puntas / Bits set                                                                                                   | -                |
| 1    | 61016                                                                                                                                                                                       | Llave HD / HD Pipe wrench                                                                                                 | 12"              |
| 3    | 62177, 62178, 62172                                                                                                                                                                         | Tenazas Grip / Grip pincers                                                                                               |                  |
| 6    | 63498, 63534, 63570, 63606, 63642, 63678                                                                                                                                                    | Limas / Files                                                                                                             |                  |
|      | 62233                                                                                                                                                                                       | Tijera de chapa / Tin snip                                                                                                | -                |
| 1    | 69534                                                                                                                                                                                       | Tijera electricista / Electrician's scissors                                                                              |                  |
|      | 65479                                                                                                                                                                                       | Calibre / Caliper                                                                                                         |                  |
| 2    | 69571, 69574                                                                                                                                                                                | Sargentos G / G Clamps                                                                                                    |                  |
| 1    | 65155                                                                                                                                                                                       | Nivel trapezoidal profesional / Professional bridge type spirit level                                                     | 400 mm           |
|      | 66731                                                                                                                                                                                       | Destornillador portapuntas magnético / Screwdriver magnetic bitholder                                                     | -                |
| 10   | 60693                                                                                                                                                                                       | Juego de vasos impacto / Impact socket sets                                                                               | -                |
| 1    | 62124                                                                                                                                                                                       | Tenaza rusa / Tower pincer                                                                                                | 10"              |
| 4    | 69529                                                                                                                                                                                       | Set 4 pinzas / Set 4 tweezers                                                                                             |                  |
| 1    | 62493                                                                                                                                                                                       | Alicate de terminales / Crimping pliers                                                                                   | -                |
| 11   | 65089, 65090, 65091, 65092, 65093, 65095, 65096, 65098, 65099, 65100, 65102                                                                                                                 | Llaves de carraca para racores                                                                                            |                  |
| 6    | 66999                                                                                                                                                                                       | Juego destornilladores Microtronic / Microtronic screwdriver set                                                          |                  |
| 1    | 65172                                                                                                                                                                                       | Flexómetro Rallye II / Rallye II Measuring tape                                                                           | 3 m/16 mm        |
| 6    | 63714, 63715, 63716, 63717, 63718, 63719                                                                                                                                                    | Limas de aguja / Needle files                                                                                             |                  |
|      | 65595                                                                                                                                                                                       | Recogedor telescópico / Telescopic joing pick up                                                                          | -                |
| 1    | 65586                                                                                                                                                                                       | Espejo articulado / Joint telescopic mirror                                                                               |                  |
|      | 65774                                                                                                                                                                                       | Regla / Ruler                                                                                                             | 300 mm           |

286 PCS.

INCH



| COD.  | PCS.                                                                                                                                                                                        |       | Medidas en / Sizes in / Mesures en                                                                                        |     |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------|-----|
| 68968 |                                                                                                                                                                                             | -     |                                                                                                                           | 55  |
| 68969 | 286                                                                                                                                                                                         | 51039 | inch                                                                                                                      | 105 |
| 55769 |                                                                                                                                                                                             | 51117 |                                                                                                                           | 310 |
| PCS.  | Composición / Composition / Composition                                                                                                                                                     |       | Descripción / Description / Description                                                                                   |     |
| 20    | 62214, 62215, 62216, 62217, 62218, 62219, 62220, 62221, 62222, 62223, 62224, 62225, 62226, 62227, 62228, 62229, 62180, 62181, 62182, 62183                                                  |       | Alicates Circlips / Circlips pliers                                                                                       |     |
| 27    | 66400, 66401, 66403, 66405, 66407, 66408, 66409, 66410, 76620, 76621, 76622, 76624, 76625, 76626, 76627, 66438, 66439, 66440, 66441, 66442, 76629, 76630, 66456, 66457, 66458, 66459, 66460 |       | Destornilladores mecánicos, electricistas, Phillips®, Pozidriv® / Slotted, electrician, Phillips®, Pozidriv® screwdrivers |     |
| 17    | 60340, 60341, 60342, 60343, 60344, 60345, 60346, 60347, 60348, 60349, 60350, 60351, 60352, 60353, 60354, 60355, 60356                                                                       |       | Llaves combinadas / Combination wrenches                                                                                  |     |
| 12    | 60300, 60301, 60302, 60303, 60304, 60306, 60309, 60310, 60311, 60312, 60313, 60314, 60380, 60381, 60382, 60383, 60384, 60386, 60389, 60390, 60391, 60392, 60393, 60394                      |       | Llaves fijas / Open-end wrenches                                                                                          |     |
| 25    | 61963                                                                                                                                                                                       |       | Juego / Set                                                                                                               |     |
| 5     | 65113, 65114, 65115, 65116, 65117                                                                                                                                                           |       | Llaves de estrella carraca / Ratchet wrench                                                                               |     |
| 15    | 65315, 65316, 65317, 65318, 65319, 65320, 65321, 65322, 65323, 65324, 65325, 65326, 65327, 65328, 65329                                                                                     |       | Llaves hexagonales / Hexagonal keys                                                                                       |     |
| 7     | 63401, 63402, 63403, 63404, 63405, 63406, 63407                                                                                                                                             |       | Botadores / Punches                                                                                                       |     |
| 2     | 63178, 63179                                                                                                                                                                                |       | Cortafíos / Chisel                                                                                                        |     |
| 10    | 62331, 62332, 62333, 62339, 62340, 62341, 62342, 62343, 62344, 62349                                                                                                                        |       | Alicates / Pliers                                                                                                         |     |
| 2     | 62135, 62134                                                                                                                                                                                |       | Tenazas de canal / Box joint pincers                                                                                      |     |
| 1     | 61112                                                                                                                                                                                       |       | Llave ajustable / Adjustable wrench                                                                                       |     |
| 2     | 62587, 62590                                                                                                                                                                                |       | Extractores / Gear pullers                                                                                                |     |
| 1     | 63748                                                                                                                                                                                       |       | Arco de sierra / Hack Saw                                                                                                 |     |
| 29    | 61961                                                                                                                                                                                       |       | Juego vasos / Socket set                                                                                                  |     |
| 1     | 62963                                                                                                                                                                                       |       | Llave dinamométrica reversible / Reversible torque wrench                                                                 |     |
| 4     | 69619, 69622, 69614, 69750                                                                                                                                                                  |       | Martillos / Hammers                                                                                                       |     |
| 33    | 66942                                                                                                                                                                                       |       | Juego puntas / Bits set                                                                                                   |     |
| 1     | 61016                                                                                                                                                                                       |       | Llave HD / HD Pipe wrench                                                                                                 |     |
| 3     | 62177, 62178, 62172                                                                                                                                                                         |       | Tenazas Grip / Grip pincers                                                                                               |     |
| 6     | 63498, 63534, 63570, 63606, 63642, 63678                                                                                                                                                    |       | Limas / Files                                                                                                             |     |
| 1     | 62233                                                                                                                                                                                       |       | Tijera de chapa / Tin snip                                                                                                |     |
| 1     | 69534                                                                                                                                                                                       |       | Tijera electricista / Electrician's scissors                                                                              |     |
| 1     | 65485                                                                                                                                                                                       |       | Calibre / Caliper                                                                                                         |     |
| 2     | 69571, 69574                                                                                                                                                                                |       | Sargentos G / G Clamps                                                                                                    |     |
| 1     | 65155                                                                                                                                                                                       |       | Nivel trapezoidal profesional / Professional bridge type spirit level                                                     |     |
| 1     | 66731                                                                                                                                                                                       |       | Destornillador portapuntas magnético / Screwdriver magnetic bitholder                                                     |     |
| 11    | 61267                                                                                                                                                                                       |       | Juego de vasos impacto / Impact socket sets                                                                               |     |
| 1     | 62124                                                                                                                                                                                       |       | Tenaza rusa / Tower pincer                                                                                                |     |
| 4     | 69529                                                                                                                                                                                       |       | Set 4 pinzas / Set 4 tweezers                                                                                             |     |
| 1     | 62493                                                                                                                                                                                       |       | Alicata de terminales / Crimping pliers                                                                                   |     |
| 11    | 62666, 62667, 62668, 62669, 62670, 62671, 62672, 62673, 62674, 62675, 62676                                                                                                                 |       | Llave Mastergear / Mastergear Wrench                                                                                      |     |
| 6     | 66999                                                                                                                                                                                       |       | Juego destornilladores Microtronic / Microtronic screwdriver set                                                          |     |
| 1     | 65172                                                                                                                                                                                       |       | Flexómetro Rallye II / Rallye II Measuring tape                                                                           |     |
| 6     | 63714, 63715, 63716, 63717, 63718, 63719                                                                                                                                                    |       | Limas de aguja / Needle files                                                                                             |     |
| 1     | 65595                                                                                                                                                                                       |       | Recogedor telescópico / Telescopic joing pick up                                                                          |     |
| 1     | 65586                                                                                                                                                                                       |       | Espejo articulado / Joint telescopic mirror                                                                               |     |
| 1     | 65773                                                                                                                                                                                       |       | Regla / Ruler                                                                                                             |     |

■ 152 PCS.

■ MM



| COD.  | PCS. |  | Medidas en / Sizes in / Mesures en |  |  |
|-------|------|------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 68970 |      | -                                                                                  |                                    |                                                                                      | 35                                                                                   |
| 68971 | 152  | 51025                                                                              | mm                                 | -                                                                                    | 85                                                                                   |
| 55770 |      | 50954                                                                              |                                    | ●                                                                                    | 190                                                                                  |

| PCS. | Composición / Composition / Composition                                                                                      | Descripción / Description / Description                                                                                   |                  |
|------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------|
| 16   | 62214, 62215, 62216, 62217, 62218, 62219, 62220, 62221, 62222, 62223, 62224, 62225, 62226, 62227, 62228, 62229               | Alicates Circlips / Circlips pliers                                                                                       |                  |
| 18   | 66400, 66401, 66403, 66407, 66408, 76621, 76622, 76624, 76625, 76626, 66439, 66440, 66441, 76629, 76630, 66457, 66458, 66459 | Destornilladores mecánicos, electricistas, Phillips®, Pozidriv® / Slotted, electrician, Phillips®, Pozidriv® screwdrivers |                  |
| 12   | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736                                           | Llaves combinadas / Combination wrenches                                                                                  |                  |
| 8    | 61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708                                                                       | Llaves fijas / Open-end wrenches                                                                                          | mm               |
|      | 61775, 61776, 61777, 61778, 61779, 61780, 61781, 61782                                                                       | Llaves acodadas / Double offset ring wrenches                                                                             |                  |
| 25   | 61960                                                                                                                        | Juego / Set                                                                                                               | 1/2", mm, 25 pcs |
| 10   | 61503, 61504, 61505, 61506, 61508, 61509, 61510, 65307, 65308, 65310                                                         | Llaves hexagonales / Hexagonal keys                                                                                       | mm               |
| 5    | 63402, 63403, 63404, 63405, 63406                                                                                            | Botadores / Punches                                                                                                       |                  |
| 2    | 63178, 63179                                                                                                                 | Cortafíos / Chisel                                                                                                        |                  |
| 6    | 62332, 62340, 62342, 62343, 62344, 62349                                                                                     | Alicates / Pliers                                                                                                         |                  |
| 1    | 62135                                                                                                                        | Tenazas de canal / Box joint pincers                                                                                      | -                |
|      | 61112                                                                                                                        | Llave ajustable / Adjustable wrench                                                                                       |                  |
| 2    | 62587, 62590                                                                                                                 | Extractores / Gear pullers                                                                                                |                  |
| 1    | 63748                                                                                                                        | Arco de sierra / Hack Saw                                                                                                 |                  |
|      | 62963                                                                                                                        | Llave dinamométrica reversible / Reversible torque wrench                                                                 | 1/2", 40-200 nm  |
| 4    | 69619, 69622, 69614, 69750                                                                                                   | Martillos / Hammers                                                                                                       | -                |
| 1    | 61016                                                                                                                        | Llave HD / HD Pipe wrench                                                                                                 | 12"              |
| 3    | 62177, 62178, 62172                                                                                                          | Tenazas Grip / Grip pincers                                                                                               |                  |
| 6    | 63498, 63534, 63570, 63606, 63642, 63678                                                                                     | Limas / Files                                                                                                             |                  |
|      | 62233                                                                                                                        | Tijera de chapa / Tin snip                                                                                                |                  |
| 1    | 69534                                                                                                                        | Tijera electricista / Electrician's scissors                                                                              | -                |
|      | 65479                                                                                                                        | Calibre Caliper / Vernier caliper                                                                                         |                  |
| 2    | 69571, 69574                                                                                                                 | Sargentos G / G Clamps                                                                                                    |                  |
| 1    | 65155                                                                                                                        | Nivel trapezoidal profesional / Professional bridge type spirit level                                                     | 400 mm           |
|      | 62124                                                                                                                        | Tenaza rusa / Tower pincer                                                                                                | 10"              |
| 4    | 69529                                                                                                                        | Set 4 pinzas / Set 4 tweezers                                                                                             | -                |
|      | 62493                                                                                                                        | Alicate de terminales / Crimping pliers                                                                                   |                  |
| 1    | 65172                                                                                                                        | Flexómetro Rallye II / Rallye II Measuring tape                                                                           | 3 m/16 mm        |
| 6    | 63714, 63715, 63716, 63717, 63718, 63719                                                                                     | Limas de aguja / Needle files                                                                                             |                  |
|      | 65595                                                                                                                        | Recogedor telescópico / Telescopic joining pick up                                                                        | -                |
| 1    | 65586                                                                                                                        | Espejo articulado / Joint telescopic mirror                                                                               |                  |
|      | 65774                                                                                                                        | Regla / Ruler                                                                                                             | 300 mm           |

### INCH





| COD.  | PCS. | Medidas en / Sizes in / Mesures en | Kg  |
|-------|------|------------------------------------|-----|
| 68972 | -    | -                                  | 33  |
| 68973 | 152  | 51025                              | 85  |
| 55771 | -    | 50954                              | 130 |

| PCS. | Composición / Composition / Composition                                                                                      | Descripción / Description / Description                                                                                   |                    |
|------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------|
| 16   | 62214, 62215, 62216, 62217, 62218, 62219, 62220, 62221, 62222, 62223, 62224, 62225, 62226, 62227, 62228, 62229               | Alicates Circlips / Circlips pliers                                                                                       | -                  |
| 18   | 66400, 66401, 66403, 66407, 66408, 76621, 76622, 76624, 76625, 76626, 66439, 66440, 66441, 76629, 76630, 66457, 66458, 66459 | Destornilladores mecánicos, electricistas, Phillips®, Pozidriv® / Slotted, electrician, Phillips®, Pozidriv® screwdrivers | -                  |
| 12   | 60341, 60342, 60343, 60344, 60345, 60347, 60348, 60349, 60351, 60352, 60353, 60354                                           | Llaves combinadas / Combination wrenches                                                                                  | -                  |
| 8    | 60302, 60303, 60304, 60306, 60309, 60310, 60311, 60312                                                                       | Llaves fijas / Open-end wrenches                                                                                          | inch               |
|      | 60382, 60383, 60384, 60385, 60386, 60389, 60390, 60391                                                                       | Llaves acodadas / Double offset ring wrenches                                                                             | -                  |
| 25   | 61963                                                                                                                        | Juego / Set                                                                                                               | 1/2", inch, 25 pcs |
| 10   | 65318, 65319, 65320, 65321, 65322, 65323, 65324, 65325, 65326, 65327                                                         | Llaves hexagonales / Hexagonal keys                                                                                       | inch               |
| 5    | 63402, 63403, 63404, 63405, 63406                                                                                            | Botadores / Punches                                                                                                       | -                  |
| 2    | 63178, 63179                                                                                                                 | Cortafíos / Chisel                                                                                                        | -                  |
| 6    | 62332, 62340, 62342, 62343, 62344, 62349                                                                                     | Alicates / Pliers                                                                                                         | -                  |
| 1    | 62135                                                                                                                        | Tenazas de canal / Box joint pincers                                                                                      | -                  |
|      | 61112                                                                                                                        | Llave ajustable / Adjustable wrench                                                                                       | -                  |
| 2    | 62587, 62590                                                                                                                 | Extractores / Gear pullers                                                                                                | -                  |
| 1    | 63748                                                                                                                        | Arco de sierra / Hack Saw                                                                                                 | -                  |
| 1    | 62963                                                                                                                        | Llave dinamométrica / Torque wrench                                                                                       | 1/2", 40-200 nm    |
| 4    | 69619, 69622, 69614, 69750                                                                                                   | Martillos / Hammers                                                                                                       | -                  |
| 1    | 61016                                                                                                                        | Llave HD / HD Pipe wrench                                                                                                 | 12"                |
| 3    | 62177, 62178, 62172                                                                                                          | Tenazas Grip / Grip pincers                                                                                               | -                  |
| 6    | 63498, 63534, 63570, 63606, 63642, 63678                                                                                     | Limas / Files                                                                                                             | -                  |
|      | 62233                                                                                                                        | Tijera de chapa / Tin snip                                                                                                | -                  |
| 1    | 69534                                                                                                                        | Tijera electricista / Electrician's scissors                                                                              | -                  |
|      | 65485                                                                                                                        | Calibre / Caliper                                                                                                         | -                  |
| 2    | 69571, 69574                                                                                                                 | Sargentos G / G Clamps                                                                                                    | -                  |
| 1    | 65155                                                                                                                        | Nivel trapezoidal profesional / Professional bridge type spirit level                                                     | 400 mm             |
|      | 62124                                                                                                                        | Tenaza rusa / Tower pincer                                                                                                | 10"                |
| 4    | 69529                                                                                                                        | Set 4 pinzas / Set 4 tweezers                                                                                             | -                  |
| 1    | 62493                                                                                                                        | Alicate de terminales / Crimping pliers                                                                                   | -                  |
| 1    | 65172                                                                                                                        | Flexómetro Rallye II / Rallye II Measuring tape                                                                           | 3 m/16 mm          |
| 6    | 63714, 63715, 63716, 63717, 63718, 63719                                                                                     | Limas de aguja / Needle files                                                                                             | -                  |
|      | 65595                                                                                                                        | Recogedor telescópico / Telescopic joing pick up                                                                          | -                  |
| 1    | 65586                                                                                                                        | Espejo articulado / Joint telescopic mirror                                                                               | -                  |
|      | 65773                                                                                                                        | Regla / Ruler                                                                                                             | 300 mm             |



**JUEGO AERONÁUTICA / AVIATION SET / SET AÉRONAUTIQUE / WERKZEUG SET FÜR LUFTFAHRT / KIT PER AEREONAUTICA / JOGO AERONÁUTICA / АВИАЦИОННЫЙ НАБОР**
■ 158 PCS.

■ INCH


| COD.         | PCS. |  | Medidas en / Sizes in / Mesures en |  |
|--------------|------|-------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|
| <b>68974</b> |      | -                                                                                   |                                    | 21                                                                                    |
| <b>68975</b> | 158  | 51039                                                                               | inch                               | 70                                                                                    |
| <b>55772</b> |      |                                                                                     |                                    |                                                                                       |

| PCS. | Composición / Composition / Composition                                                                 | Descripción / Description / Description                              |         |
|------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|---------|
| 10   | 63380, 63381, 63382, 63401, 63402, 63403, 63404, 63405, 63406, 63407                                    | Botadores / Punches                                                  |         |
| 6    | 63498, 63534, 63570, 63606, 63642, 63678                                                                | Limas / Files                                                        |         |
| 3    | 63178, 63179, 63180                                                                                     | Cortafíos / Chisel                                                   |         |
| 12   | 66874, 66875, 66877, 66880, 66883, 66885, 66897, 66898, 66899, 66938, 66901, 66902,                     | Destornilladores Rotork / Rotork Screwdrivers                        |         |
|      | 65479                                                                                                   | Calibre / Caliper                                                    |         |
| 1    | 61112                                                                                                   | Llave ajustable / Adjustable wrench                                  |         |
|      | 62135                                                                                                   | Tenazas de canal / Box joint pincers                                 |         |
| 11   | 56223, 65369, 65370, 65371, 65373, 65375, 65377, 65378, 65380, 65381, 57598                             | Set dinamométrica / Reversible torque wrench set                     |         |
| 4    | 62333, 62343, 62337, 62339                                                                              | Alicates / Pliers                                                    |         |
| 11   | 62695, 62696, 62697, 62698, 62699, 62700, 62701, 62702, 62703, 62704, 62705                             | Llaves de Mastergear Spline / Spline Mastergear wrenches             |         |
| 15   | 60380, 60381, 60382, 60383, 60384, 60385, 60386, 60387, 60388, 60389, 60390, 60391, 60392, 60393, 60394 | Llaves acodadas / Double offset ring wrenches                        | inch    |
| 14   | 60341, 60342, 60343, 60344, 60345, 60346, 60347, 60348, 60349, 60350, 60351, 60352, 60353, 60354        | Llaves combinadas / Combination wrenches                             |         |
| 33   | 61963                                                                                                   | Juego de vasos / Socket set                                          | 1/2"    |
| 1    | 63748                                                                                                   | Arco de sierra / Hack Saw                                            | -       |
| 12   | 65315, 65316, 65317, 65318, 65319, 65320, 65321, 65322, 65323, 65324, 65325                             | Llaves hexagonales / Hexagonal keys                                  | inch    |
| 1    | 69501                                                                                                   | Cortadores / Cutters                                                 | -       |
|      | 65362                                                                                                   | Flexómetros / Measuring tape                                         | 3 m/10' |
| 2    | 69619, 55326                                                                                            | Martillos / Hammers                                                  |         |
| 1    | 65595                                                                                                   | Recogedor telescópico / Telescopic joining pick up                   |         |
|      | 65550                                                                                                   | Galga de espesores / Feeler gauge                                    |         |
| 6    | 63714, 63715, 63716, 63717, 63718, 63719                                                                | Limas de aguja / Needle files                                        |         |
| 4    | 69529                                                                                                   | Set 4 pinzas / Set 4 tweezers                                        |         |
| 1    | 69534                                                                                                   | Tijera electricista / Electrician's scissors                         |         |
| 3    | 62178, 62135, 62136                                                                                     | Tenazas Grip / Grip pincers                                          |         |
|      | 65586                                                                                                   | Espejo articulado / Joint telescopic mirror                          |         |
| 1    | 62188                                                                                                   | Tijera aviación articulada reforzada / Reinforced aviation tin snips |         |
|      | 62136                                                                                                   | Tenaza de sifón / Syphon plier                                       |         |

■ 129 PCS.

■ MM/INCH






| COD.  | PCS.                                                                                                                                                            |       |                                                                | Medidas en / Sizes in / Mesures en |    |                   |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------|------------------------------------|----|-------------------|
| 69004 | 129                                                                                                                                                             | 50995 | 50986                                                          | mm/inch                            | 20 |                   |
| PCS.  | Composición / Composition / Composition                                                                                                                         |       | Descripción / Description / Description                        |                                    |    |                   |
| 7     | 63401, 63402, 63403, 63404, 63405, 63406, 63407                                                                                                                 |       | Botador / Pin punch                                            |                                    |    |                   |
| 1     | 63437                                                                                                                                                           |       | Granete / Center punches                                       |                                    |    |                   |
| 28    | 58688, 58702                                                                                                                                                    |       | Juegos llaves de vaso / Socket wrench set                      |                                    |    |                   |
| 23    | 60420, 60421, 60422, 60423, 60424, 60425, 60426, 60427, 60428, 60429, 60430, 60440, 60441, 60442, 60443, 60444, 60445, 60446, 60447, 60448, 60449, 60450, 60451 |       | Llaves de vaso / Socket wrenches                               |                                    |    | 1/4" & 3/8", inch |
| 13    | 58537, 58538, 58539, 58540, 58541, 58542, 58543, 58544, 58545, 58546, 58547, 58548, 58549                                                                       |       | Llaves fijas micromecánica / Micromech open end wrenches       |                                    |    | inch              |
| 5     | 57288, 57289, 57290, 57291, 57292                                                                                                                               |       | Llaves de vaso articuladas / Universal socket                  |                                    |    | 1/4", inch        |
| 4     | 60340, 60341, 67878, 67954                                                                                                                                      |       | Llaves combinadas / Combination wrenches                       |                                    |    | inch              |
| 1     | 62129                                                                                                                                                           |       | Tenaza de canal / Box joint pincer                             |                                    |    |                   |
|       | 62090                                                                                                                                                           |       | Alicate tipo Ford / Slip joint plier                           |                                    |    |                   |
| 6     | 62247, 62332, 62339, 62340, 62343, 62540                                                                                                                        |       | Alicates / Pliers                                              |                                    |    |                   |
| 1     | 62624                                                                                                                                                           |       | Alicate trenzador de alambre / Wire twist plier                |                                    |    |                   |
| 6     | 61442, 61443, 61444, 61447, 61450, 61459                                                                                                                        |       | Alargaderas / Extensions                                       |                                    |    | 1/4" & 3/8", inch |
| 2     | 55327, 69704                                                                                                                                                    |       | Martillos / Hammers                                            |                                    |    |                   |
| 3     | 62169, 62170, 62171                                                                                                                                             |       | Tijeras / Snips                                                |                                    |    |                   |
| 2     | 61435, 61436                                                                                                                                                    |       | Articulaciones universales / Universal joints                  |                                    |    | 1/4" & 3/8", inch |
|       | 62603, 62604                                                                                                                                                    |       | Llaves de carraca reversibles / Reversible ratchet handles     |                                    |    | 1/4" & 3/8"       |
| 10    | 61516                                                                                                                                                           |       | Juego llaves allen / Set of hexagonal key wrenches             |                                    |    | inch              |
| 2     | 63536, 63572                                                                                                                                                    |       | Limas / Files                                                  |                                    |    |                   |
|       | 65570                                                                                                                                                           |       | Galgas de espesores / Feeler gauge                             |                                    |    |                   |
|       | 65586                                                                                                                                                           |       | Espejo telescópico / Telescopic joint mirror                   |                                    |    |                   |
|       | 65588                                                                                                                                                           |       | Recogedor telescópico / Telescopic joint pick up               |                                    |    |                   |
|       | 65603                                                                                                                                                           |       | Aguja de trazar / Scriber                                      |                                    |    |                   |
|       | 65836                                                                                                                                                           |       | Regla métrica INOX / Stainless steel ruler                     |                                    |    | 600 mm            |
| 1     | 58241                                                                                                                                                           |       | Punta Phillips® / Phillips® bit                                |                                    |    |                   |
|       | 66937                                                                                                                                                           |       | Destornillador carrocerero Rotork® / Rotork stubby screwdriver |                                    |    |                   |
|       | 63742                                                                                                                                                           |       | Arco de sierra / Hack Saw                                      |                                    |    |                   |
|       | 79598                                                                                                                                                           |       | Linterna MasterEx / MasterEx flashlight                        |                                    |    |                   |
|       | 61577                                                                                                                                                           |       | Cepillo INOX / Stainless steel universal brush                 |                                    |    |                   |

### JUEGOS AUTOMOCIÓN / SETS FOR AUTOMOTIVE / SETS AUTOMOBILE / SETS FÜR AUTOMOTIVE / SET RIPARAZIONE / JOGOS PARA SETOR AUTOMÓVEL / НАБОР ДЛЯ АВТОМОБИЛЕЙ

364 PCS.

MM



| COD.  | PCS. |  | Medidas en / Sizes in / Mesures en |  |  |
|-------|------|-------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 51668 |      | -                                                                                   |                                    |                                                                                       | 46                                                                                    |
| 51669 | 364  | 50954                                                                               | mm                                 | -                                                                                     | 155                                                                                   |
| 51670 |      |                                                                                     |                                    | ●                                                                                     | 160                                                                                   |

| PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Descripción / Description / Description                                                                                                                            |        |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 54   | 53000, 53001, 53002, 53003, 53004, 53005, 53006, 53007, 53008, 53009, 53010, 53011, 53013, 53015, 53016, 53017, 53019, 53021, 53023, 53024, 53025, 53034, 53035, 53036, 53037, 53038, 53039, 53041, 53042, 53043, 53044, 53045, 53046, 55697, 55698, 55699, 55700, 58900, 66733, 66734, 66735, 66736, 66737, 66738, 66739, 66740, 66741, 66742, 66743, 66744, 66745, 66746, 66747, 67164                                                                                                                                      | Puntas atornilladoras con vaso / Socket bits                                                                                                                       | 1/4"   |
| 73   | 53105, 53107, 53108, 53109, 53110, 53120, 53121, 53122, 53123, 53124, 53125, 53127, 53128, 53129, 53131, 53132, 53133, 53134, 53136, 53137, 53138, 53139, 53149, 53150, 53151, 53152, 53153, 53154, 53155, 53156, 53157, 53158, 53159, 55705, 55706, 55707, 55708, 56896, 65985, 65986, 65987, 65988, 65989, 65990, 65991, 65992, 65993, 66802, 66803, 66804, 66805, 66806, 66812, 66813, 66814, 66816, 66817, 66818, 66819, 66820, 66821, 66822, 66823, 66824, 66825, 66826, 66828, 66829, 66830, 66842, 67213, 67214, 66827 | Puntas atornilladoras con vaso / Socket bits                                                                                                                       | 1/2"   |
| 26   | 56015, 56017, 56018, 56020, 57165, 57166, 57167, 57168, 57169, 57170, 61311, 61312, 61313, 61314, 61315, 61322, 63974, 63975, 67640, 67641, 67642, 67643, 67644, 67645, 67647                                                                                                                                                                                                                                                                                                                                                 | Llaves de vaso / Socket wrenches                                                                                                                                   | 1/4"   |
| 56   | 55795, 55796, 55797, 55798, 55801, 57180, 57181, 57182, 57183, 57184, 57185, 57186, 57187, 61381, 61382, 61383, 61384, 61385, 61386, 61387, 61388, 61389, 61390, 61391, 61392, 61393, 61394, 61395, 61396, 61397, 61398, 61399, 61400, 61401, 61402, 61403, 67780, 67781, 67782, 67783, 67784, 67785, 67786, 67787, 67788, 67789, 67791, 67792, 67793, 67794, 67795, 67796, 67797, 67798, 67799, 67800                                                                                                                        | Llaves de vaso / Socket wrenches                                                                                                                                   | 1/2"   |
| 2    | 61462, 61463                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Llaves de vaso para bujías / Spark plug sockets                                                                                                                    |        |
| 5    | 57410, 57411, 57413, 62603, 62606                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Llaves de carraca reversibles / Reversible ratchet handles                                                                                                         |        |
| 25   | 61530, 61531, 61532, 61533, 61534, 61535, 61536, 61537, 61538, 61539, 61540, 61541, 62710, 62711, 62712, 62713, 62714, 62715, 62716, 62717, 62718, 62719, 62720, 62721                                                                                                                                                                                                                                                                                                                                                        | Llaves combinadas de carraca / Combination ratchet wrenches                                                                                                        |        |
| 9    | 61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708, 61709                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Llaves fijas / Open-end wrenches                                                                                                                                   | -      |
|      | 61775, 61776, 61777, 61778, 61779, 61780, 61781, 61782, 61783                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Llaves acodadas / Double offset ring wrenches                                                                                                                      |        |
|      | 60785, 60786, 60788, 60789, 60790                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Llaves para racores / Flare nut wrenches                                                                                                                           |        |
| 5    | 62734, 62735, 62736, 62737, 62738                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Llaves E-Torx® / E-Torx® wrenches                                                                                                                                  |        |
|      | 61442, 61443, 61444, 61445, 62731                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                    | 1/4"   |
|      | 61453, 61455, 61458, 61464, 62119                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Alargaderas / Extensions                                                                                                                                           | 1/2"   |
| 4    | 62180, 62181, 62182, 62183                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Alicates Circlips / Circlips pliers                                                                                                                                |        |
| 1    | 51215                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Alicate para cables de bujía / Spark plug lead plier                                                                                                               |        |
| 3    | 51219, 51220, 51221                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Alicates para manguitos / Hose clamps                                                                                                                              |        |
|      | 62591                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Alicate para terminales aislados / Plier for insulated terminals                                                                                                   |        |
| 1    | 62594                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Alicate para unión de cables aislados y no aislados / Plier for cable links insulated and no insulated                                                             |        |
| 7    | 62332, 62337, 62340, 62342, 62343, 62344, 63955                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Alicates / Pliers                                                                                                                                                  |        |
| 1    | 61580                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Cepillo soldadura / Soldering brush                                                                                                                                |        |
| 2    | 62169, 62171                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Tijeras articuladas / Aviation tin snips                                                                                                                           | -      |
| 3    | 62172, 62178, 62485                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Tenazas Grip / Grip pincers                                                                                                                                        |        |
| 2    | 62706, 62707                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Tenazas de canal / Box joint pincers                                                                                                                               |        |
| 1    | 56184                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Tenazas axiales / Axial grip pliers                                                                                                                                |        |
| 5    | 63533, 63569, 63605, 63606, 63677                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Limas / Files                                                                                                                                                      |        |
|      | 67195                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Rasqueta para juntas / Gasket scraper                                                                                                                              |        |
|      | 51227                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Palanca para desmontar neumáticos / Tyre-removers                                                                                                                  |        |
|      | 51230                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Herramienta para extracción de clips / Fastener removal tool                                                                                                       |        |
|      | 61408                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                    | 1/4"   |
|      | 61434                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Berbiqui / Speeder handle                                                                                                                                          | 1/2"   |
|      | 63299                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Arco de sierra / Hack saws                                                                                                                                         |        |
| 1    | 63874                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Cortadores / Cutters                                                                                                                                               |        |
|      | 63862                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Pelacables / Cable stripper                                                                                                                                        |        |
|      | 65165                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Flexómetro Robust Bimat / Robust Bimat Measuring tape                                                                                                              | -      |
|      | 65480                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Calibre pie de rey / Vernier Caliper                                                                                                                               |        |
|      | 65491                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Calibre de profundidad / Depth gauge                                                                                                                               |        |
|      | 65568                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Galgas de espesores / Feeler gauge                                                                                                                                 |        |
|      | 65774                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Regla / Ruler                                                                                                                                                      | 300 mm |
|      | 65820                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Goniómetro / Protractor                                                                                                                                            |        |
| 24   | 66487, 66488, 66489, 66490, 66491, 66492, 66493, 66494, 66495, 66496, 66497, 66731, 66732, 66874, 66875, 66877, 66878, 66881, 66882, 66887, 66897, 66898, 66899, 66900                                                                                                                                                                                                                                                                                                                                                        | Destornilladores mecánico, portavasos, portapuntas, electricista, Phillips®, Torx® / Slotted, socket holder, bitholder, electrician, Phillips®, Torx® screwdrivers | -      |
| 3    | 58239, 58244, 58265                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Puntas de destornillador Masterbit / Masterbit bits                                                                                                                |        |
| 4    | 55265, 65846, 65884                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                    | 1/4"   |
| 2    | 65880, 65885                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Adaptadores / Adapters                                                                                                                                             | 3/8"   |
|      | 65881                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Adaptador / Adapter                                                                                                                                                | 1/2"   |
|      | 61435                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Articulación universal / Universal joint                                                                                                                           |        |
|      | 61438                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Mango corredizo / Sliding-T-handle                                                                                                                                 | 1/4"   |
| 1    | 65874                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Mango articulado / Swivel handle                                                                                                                                   |        |
|      | 61484                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Mango articulado telescópico / Telescopic swivel handle                                                                                                            | 1/2"   |
|      | 63468                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Granete con mago / Center punch with handle                                                                                                                        | -      |
|      | 65589                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Recogedor telescópico articulado / Telescopic joint pick up                                                                                                        |        |

■ 158 PCS.

■ MM



| COD.  | PCS. | Medidas en / Sizes in / Mesures en | Kg |
|-------|------|------------------------------------|----|
| 51665 | -    | -                                  | 17 |
| 51666 | 158  | mm                                 | 90 |
| 51667 | -    | -                                  | -  |



| PCS. | Composición / Composition / Composition                                                                                                                         | Descripción / Description / Description                                                                                                                                  |      |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 1    | 55327                                                                                                                                                           | Martillo nylon mango Hickory / Nylon hammer Hickory handle                                                                                                               | -    |
| 6    | 53013, 66743, 66744, 66745, 66746, 66747                                                                                                                        | Puntas atornilladoras con vaso hexagonales / Hexagonal socket bits                                                                                                       | 1/4" |
| 23   | 58155, 58156, 58157, 58160, 58163, 58164, 58165, 58188, 58253, 58254, 58255, 58257, 58258, 58272, 58284, 58286, 58287, 58290, 58292, 58293, 58295, 58296, 58297 | Puntas de destornillador Masterbit / Masterbit bits                                                                                                                      | -    |
| 14   | 60423, 61311, 61312, 61313, 61314, 61315, 61316, 61317, 61318, 61319, 61320, 61321, 63974, 63975                                                                | Llaves de vaso / Socket wrenches                                                                                                                                         | 1/4" |
| 19   | 61802, 61803, 61804, 61805, 61806, 61807, 61808, 61809, 61810, 61811, 61812, 61813, 61814, 61815, 61816, 61818, 61819, 61822, 61823                             | Llaves combinadas / Combination wrenches                                                                                                                                 | 1/2" |
| 22   | 60952, 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736, 61737, 61738, 61739, 61740, 61741, 61743, 61746, 61749, 61750        | Llaves combinadas / Combination wrenches                                                                                                                                 | -    |
| 7    | 61775, 61776, 61777, 61778, 61779, 61780, 61781                                                                                                                 | Llaves acodadas / Double offset ring wrenches                                                                                                                            | -    |
| 4    | 62180, 62181, 62182, 62183                                                                                                                                      | Alicates Circlips / Circlips pliers                                                                                                                                      | -    |
| 3    | 62332, 62339, 62343                                                                                                                                             | Alicates / Pliers                                                                                                                                                        | -    |
|      | 69621                                                                                                                                                           | Martillo alemán / German type machinist's hammer                                                                                                                         | -    |
|      | 69502                                                                                                                                                           | Cortadores / Cutters                                                                                                                                                     | -    |
|      | 64005                                                                                                                                                           | Cuchilla / Blade                                                                                                                                                         | -    |
|      | 65172                                                                                                                                                           | Flexómetro / Measuring tape                                                                                                                                              | -    |
| 1    | 61580                                                                                                                                                           | Cepillo soldadura / Soldering brush                                                                                                                                      | -    |
|      | 61435                                                                                                                                                           | Articulación universal / Universal joint                                                                                                                                 | 1/4" |
|      | 61437                                                                                                                                                           | Articulación universal / Universal joint                                                                                                                                 | 1/2" |
|      | 61438                                                                                                                                                           | Mango corredizo en T / Sliding T handle                                                                                                                                  | 1/4" |
|      | 61440                                                                                                                                                           | Mango corredizo en T / Sliding T handle                                                                                                                                  | 1/2" |
| 2    | 61442, 61444                                                                                                                                                    | Alargaderas / Extensions                                                                                                                                                 | 1/4" |
|      | 61455, 61458                                                                                                                                                    | Alargaderas / Extensions                                                                                                                                                 | 1/2" |
|      | 62128                                                                                                                                                           | Tenaza de canal / Box joint pincer                                                                                                                                       | -    |
| 1    | 62172                                                                                                                                                           | Tenaza Grip / Grip pincer                                                                                                                                                | -    |
|      | 62603                                                                                                                                                           | Llave de carraca reversible / Reversible ratchet handle                                                                                                                  | 1/4" |
|      | 62606                                                                                                                                                           | Llave de carraca reversible / Reversible ratchet handle                                                                                                                  | 1/2" |
| 9    | 63394, 63395, 63396, 63397, 63398, 63399, 63408, 63409, 63410                                                                                                   | Botadores / Punches                                                                                                                                                      | -    |
| 3    | 62849, 63309, 63311                                                                                                                                             | Cinceles / Chisels                                                                                                                                                       | -    |
| 1    | 62871                                                                                                                                                           | Buril plano / Crosscut chisel                                                                                                                                            | -    |
|      | 63437                                                                                                                                                           | Granete / Center punch                                                                                                                                                   | -    |
| 5    | 63498, 63570, 63606, 63642, 63678                                                                                                                               | Limas / Files                                                                                                                                                            | -    |
| 1    | 65591                                                                                                                                                           | Recogedor telescópico / Telescopic joint pick up                                                                                                                         | -    |
| 22   | 66571, 66572, 66573, 66574, 66575, 66732, 66886, 66887, 66888, 66890, 66892, 66897, 66898, 66899, 66919, 66921, 66922, 66923, 66924, 66926, 66937, 67190        | Destornilladores T-Mastertork, portavasos, electricistas, Phillips®, Torx®, carroceros / T-Mastertork, socket holder, electrician, Phillips®, Torx®, Stubby screwdrivers | -    |

### JUEGOS MECÁNICA / SETS FOR MECHANICS / SETS DE MÉCANICIENS / WERKZEUG SETS FÜR MECHANIKER / KIT MECCANICA / JOGO DE MECÂNICA / МЕХАНИЧЕСКИЕ НАБОРЫ

419 PCS.

MM

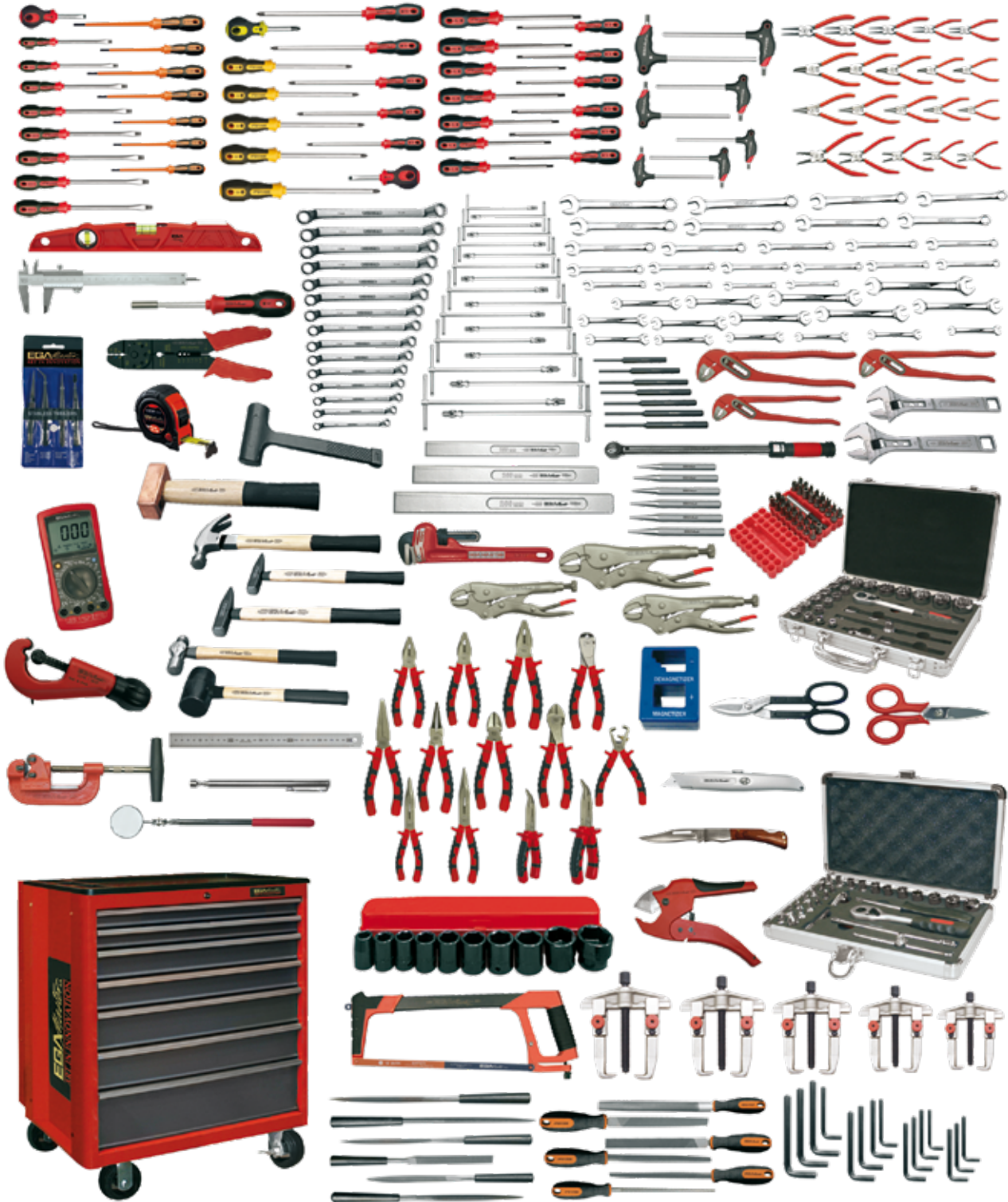




| COD.  | PCS. |  | Medidas en / Sizes in / Mesures en |  |
|-------|------|-------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|
| 68976 | -    | -                                                                                   | -                                  | 125                                                                                   |
| 68977 | 419  | 50950                                                                               | mm                                 | 220                                                                                   |
| 55773 | -    | 51074                                                                               | ●                                  | 550                                                                                   |

| PCS. | Composición / Composition / Composition                                                                                                                                                                                        | Descripción / Description / Description                               |                  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------|
| 20   | 62214, 62215, 62216, 62217, 62218, 62219, 62220, 62221, 62222, 62223, 62224, 62225, 62226, 62227, 62228, 62229, 62180, 62181, 62182, 62183                                                                                     | Alicates Circlips / Circlips pliers                                   |                  |
| 9    | 66400, 66401, 66403, 66405, 66407, 66408, 66409, 66410, 66525                                                                                                                                                                  | Destornilladores mecánicos / Slotted screwdrivers                     |                  |
| 7    | 76620, 76621, 76622, 76624, 76625, 76626, 76627                                                                                                                                                                                | Destornilladores electricistas / Electrician screwdrivers             |                  |
| 6    | 66438, 66439, 66440, 66441, 66442, 66526                                                                                                                                                                                       | Destornilladores Phillips® / Phillips® screwdrivers                   |                  |
|      | 66456, 66457, 66458, 66459, 66460, 66527                                                                                                                                                                                       | Destornilladores Pozidriv® / Pozidriv® screwdrivers                   |                  |
| 13   | 66474, 66475, 66476, 66477, 66478, 66479, 66480, 66481, 66482, 66483, 66484, 66485, 66486                                                                                                                                      | Destornilladores Torx® / Torx® screwdrivers                           |                  |
| 7    | 66571, 66572, 66573, 66574, 66575, 66576, 66577                                                                                                                                                                                | Destornilladores T-Mastertork / T-Mastertork screwdrivers             | -                |
| 16   | 69870                                                                                                                                                                                                                          | Set reversible Mastergear / Set rev. Mastergear                       |                  |
| 13   | 61824, 61825, 61826, 61827, 61828, 61829, 61830, 61831, 61832, 61833, 61834, 61835, 61836                                                                                                                                      | Llaves de tubo doble boca / Socket double ended wrench                |                  |
| 18   | 61840, 61841, 61842, 61843, 61844, 61845, 61846, 61847, 61848, 61849, 61850, 61851, 61852, 61853, 61854, 61855, 61856, 61858                                                                                                   | Llaves articuladas en T / T-handle wrenches with universal joint      |                  |
| 32   | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736, 61737, 61738, 61739, 61740, 61741, 61742, 61743, 61744, 61745, 61746, 61747, 61748, 61749, 61750, 60951, 60952, 60953, 60954, 60955, 60956 | Llaves combinadas / Combination wrenches                              |                  |
| 14   | 61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708, 61709, 61710, 61711, 61712, 61713                                                                                                                                      | Llaves fijas / Open-end wrenches                                      | mm               |
| 16   | 61775, 61776, 61777, 61778, 61779, 61780, 61781, 61782, 61783, 61784, 61785, 61786, 61787, 61788, 61789, 61790                                                                                                                 | Llaves acodadas / Double offset ring wrenches                         |                  |
| 25   | 61960                                                                                                                                                                                                                          | Juego / Set                                                           |                  |
| 26   | 61870, 61871, 61872, 61873, 61874, 61875, 61876, 61877, 61878, 61879, 61880, 61881, 61882, 61883, 61884, 61885, 61886, 61887, 61888, 61889, 61890, 61891, 61892, 61893, 61894, 61895                                           | Llaves de pipa / Angled sockets                                       | 1/2", mm, 26 pcs |
| 23   | 65302, 65303, 65304, 65305, 65306, 65307, 65308, 65309, 65310, 65311, 65312, 65313, 65314, 61501, 61502, 61503, 61504, 61505, 61506, 61507, 61508, 61509, 61510                                                                | Llaves hexagonales / Hexagonal keys                                   | mm               |
| 7    | 63401, 63402, 63403, 63404, 63405, 63406, 63407                                                                                                                                                                                | Botadores octogonales / Octagonal punches                             |                  |
| 6    | 63435, 63436, 63437, 63438, 63439, 63440                                                                                                                                                                                       | Granetes hexagonales / Hexagonal center punches                       |                  |
| 3    | 63178, 63179, 63180                                                                                                                                                                                                            | Cortafíos / Chisel                                                    |                  |
| 13   | 62331, 62332, 62333, 62337, 62338, 62339, 62340, 62341, 62342, 62343, 62344, 62345, 62349                                                                                                                                      | Alicates / Pliers                                                     | -                |
| 3    | 62133, 62135, 62134                                                                                                                                                                                                            | Tenazas de canal / Box joint pincers                                  |                  |
| 2    | 61112, 61114                                                                                                                                                                                                                   | Llave ajustable / Adjustable wrench                                   |                  |
| 5    | 62586, 62587, 62588, 62589, 62590                                                                                                                                                                                              | Extractores / Gear pullers                                            |                  |
| 1    | 63748                                                                                                                                                                                                                          | Arco de sierra / Hack Saw                                             |                  |
| 29   | 61958                                                                                                                                                                                                                          | Juego vasos / Socket set                                              | 1/4", mm         |
| 1    | 62963                                                                                                                                                                                                                          | Llave dinamométrica / Torque wrench                                   | 1/2" 40-200 nm   |
| 7    | 69619, 69622, 69614, 69750, 69742, 69729, 69521                                                                                                                                                                                | Martillos / Hammers                                                   |                  |
| 33   | 66942                                                                                                                                                                                                                          | Juego puntas / Bits set                                               | -                |
| 1    | 61016                                                                                                                                                                                                                          | Llave HD / HD Pipe wrench                                             | 12"              |
| 3    | 62177, 62178, 62172                                                                                                                                                                                                            | Tenazas Grip / Grip pincers                                           |                  |
| 6    | 63498, 63534, 63570, 63606, 63642, 63678                                                                                                                                                                                       | Limas / Files                                                         |                  |
|      | 62233                                                                                                                                                                                                                          | Tijera de chapa / Tin snip                                            | -                |
|      | 69534                                                                                                                                                                                                                          | Tijera electricista / Electrician's scissors                          |                  |
| 1    | 65479                                                                                                                                                                                                                          | Calibre / Caliper                                                     |                  |
|      | 65155                                                                                                                                                                                                                          | Nivel trapezoidal profesional / Professional bridge type spirit level | 400 mm           |
|      | 66731                                                                                                                                                                                                                          | Destornillador portapuntas magnético / Screwdriver magnetic bitholder | -                |
| 10   | 60693                                                                                                                                                                                                                          | Juego de vasos impacto / Impact socket sets                           | mm               |
| 4    | 69529                                                                                                                                                                                                                          | Set 4 pinzas / Set 4 tweezers                                         |                  |
| 1    | 62493                                                                                                                                                                                                                          | Alicata de terminales / Crimping pliers                               |                  |
| 11   | 65089, 65090, 65091, 65092, 65093, 65095, 65096, 65098, 65099, 65100, 65102                                                                                                                                                    | Llaves de carraca para racores / Ratcheting ring wrench               |                  |
| 1    | 69504                                                                                                                                                                                                                          | Magnetizador-desmagnetizador / Magnetizer-demagnetizer                |                  |
|      | 65362                                                                                                                                                                                                                          | Flexómetro / Measuring tape                                           | 3 m, mm/inch     |
| 6    | 63714, 63715, 63716, 63717, 63718, 63719                                                                                                                                                                                       | Limas de aguja / Needle files                                         |                  |
|      | 65595                                                                                                                                                                                                                          | Recogedor telescópico / Telescopic joing pick up                      | -                |
|      | 65586                                                                                                                                                                                                                          | Espejo articulado / Joint telescopic mirror                           |                  |
|      | 65774                                                                                                                                                                                                                          | Regla / Ruler                                                         | 300 mm           |
|      | 63119                                                                                                                                                                                                                          | Cortatubos cobre / Cooper tube cutter                                 | 42 mm            |
| 1    | 63172                                                                                                                                                                                                                          | Cortatubos acero / Steel tube cutter                                  | 2"               |
|      | 63205                                                                                                                                                                                                                          | Cortatubos plástico Piraina / Piraina plastic pipe cutter             |                  |
|      | 69501                                                                                                                                                                                                                          | Cortadores / Cutters                                                  |                  |
|      | 51259                                                                                                                                                                                                                          | Multímetro digital para automóviles / Automotive digital multimeter   | -                |
|      | 65388                                                                                                                                                                                                                          | Navaja / Penknife                                                     |                  |

■ 337 PCS.

■ INCH



| COD.  | PCS. |  | Medidas en / Sizes in / Mesures en |  |
|-------|------|-------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|
| 68978 |      |                                                                                     |                                    | 85                                                                                    |
| 68979 | 337  | 50950                                                                               | inch                               | 180                                                                                   |
| 55774 |      | 51117, 51039                                                                        | ●                                  | 340                                                                                   |





| PCS. | Composición / Composition / Composition                                                                                                                         | Descripción / Description / Description                                                                                                             |                       |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 20   | 62214, 62215, 62216, 62217, 62218, 62219, 62220, 62221, 62222, 62223, 62224, 62225, 62226, 62227, 62228, 62229, 62180, 62181, 62182, 62183                      | Alicates Circlips / Circlips pliers                                                                                                                 |                       |
| 9    | 66400, 66401, 66403, 66405, 66407, 66408, 66409, 66410, 66525                                                                                                   | Destornilladores mecánicos / Slotted screwdrivers                                                                                                   |                       |
| 7    | 76620, 76621, 76622, 76624, 76625, 76626, 76627                                                                                                                 | Destornilladores electricistas / Electrician screwdrivers                                                                                           |                       |
| 5    | 66438, 66439, 66440, 66441, 66442, 66526                                                                                                                        | Destornilladores Phillips® / Phillips® screwdrivers                                                                                                 |                       |
|      | 66456, 66457, 66458, 66459, 66460, 66527                                                                                                                        | Destornilladores Pozidriv® / Pozidriv® screwdrivers                                                                                                 |                       |
| 13   | 66474, 66475, 66476, 66477, 66478, 66479, 66480, 66481, 66482, 66483, 66484, 66485, 66486                                                                       | Destornilladores Torx® / Torx® screwdrivers                                                                                                         |                       |
| 7    | 66571, 66572, 66573, 66574, 66575, 66576, 66577                                                                                                                 | Destornilladores T-Mastertork / T-Mastertork screwdrivers                                                                                           |                       |
| 18   | 61840, 61841, 61842, 61843, 61844, 61845, 61846, 61847, 61848, 61849, 61850, 61851, 61852, 61853, 61854, 61855, 61856, 61858                                    | Llaves articuladas en T / T-handle wrenches with universal joint                                                                                    |                       |
| 23   | 60340, 60341, 60342, 60343, 60344, 60345, 60346, 60347, 60348, 60349, 60350, 60351, 60352, 60353, 60354, 60355, 60356, 60357, 60358, 60957, 60958, 60959, 60960 | Llaves combinadas / Combination wrenches                                                                                                            |                       |
| 15   | 60300, 60301, 60302, 60303, 60304, 60305, 60306, 60307, 60308, 60309, 60310, 60311, 60312, 60313, 60314                                                         | Llaves fijas / Open-end wrenches                                                                                                                    | inch                  |
|      | 60380, 60381, 60382, 60383, 60384, 60385, 60386, 60387, 60388, 60389, 60390, 60391, 60392, 60393, 60394                                                         | Llaves acodadas / Double offset ring wrenches                                                                                                       |                       |
| 25   | 61963                                                                                                                                                           | Llaves de vaso , extensiones, carraca, mango corredizo en T, articulación universal / Socket wrench, extensions, ratchet, T handle, universal joint | 1/2", exten. 5" - 10" |
| 15   | 65315, 65316, 65317, 65318, 65319, 65320, 65321, 65322, 65323, 65324, 65325, 65326, 65327, 65328, 65329                                                         | Llaves hexagonales / Hexagonal keys                                                                                                                 | inch                  |
| 7    | 63401, 63402, 63403, 63404, 63405, 63406, 63407                                                                                                                 | Botadores octogonales / Octagonal punches                                                                                                           |                       |
| 6    | 63435, 63436, 63437, 63438, 63439, 63440                                                                                                                        | Granetes hexagonales / Hexagonal center punches                                                                                                     |                       |
| 3    | 63178, 63179, 63180                                                                                                                                             | Cortafíos / Chisel                                                                                                                                  |                       |
| 13   | 62331, 62332, 62333, 62337, 62338, 62339, 62340, 62341, 62342, 62343, 62344, 62345, 62349                                                                       | Alicates / Pliers                                                                                                                                   |                       |
| 3    | 62133, 62135, 62134                                                                                                                                             | Tenazas de canal / Box joint pincers                                                                                                                |                       |
| 2    | 61112, 61114                                                                                                                                                    | Llave ajustable / Adjustable wrench                                                                                                                 |                       |
| 5    | 62586, 62587, 62588, 62589, 62590                                                                                                                               | Extractores / Gear pullers                                                                                                                          |                       |
| 1    | 63748                                                                                                                                                           | Arco de sierra / Hack Saw                                                                                                                           |                       |
| 29   | 61961                                                                                                                                                           | Juego vasos / Socket set                                                                                                                            | 1/4", inch            |
| 1    | 62963                                                                                                                                                           | Llave dinamométrica reversible / Reversible torque wrench                                                                                           | 1/2", 40-200 nm       |
| 7    | 69619, 69622, 69614, 69750, 69742, 69729, 69521                                                                                                                 | Martillos / Hammers                                                                                                                                 |                       |
| 33   | 66942                                                                                                                                                           | Juego puntas / Bits set                                                                                                                             |                       |
| 1    | 61016                                                                                                                                                           | Llave HD / HD Pipe wrench                                                                                                                           | 12"                   |
| 3    | 62177, 62178, 62172                                                                                                                                             | Tenazas Grip / Grip pincers                                                                                                                         |                       |
| 6    | 63498, 63534, 63570, 63606, 63642, 63678                                                                                                                        | Limas / Files                                                                                                                                       |                       |
|      | 62233                                                                                                                                                           | Tijera de chapa / Tin snip                                                                                                                          |                       |
|      | 69534                                                                                                                                                           | Tijera electricista / Electrician's scissors                                                                                                        |                       |
| 1    | 65479                                                                                                                                                           | Calibre / Caliper                                                                                                                                   |                       |
|      | 65155                                                                                                                                                           | Nivel trapezoidal profesional / Professional bridge type spirit level                                                                               | 400 mm                |
|      | 66731                                                                                                                                                           | Destornillador portapuntas magnético / Screwdriver magnetic bitholder                                                                               |                       |
| 11   | 61267                                                                                                                                                           | Juego de vasos impacto / Impact socket sets                                                                                                         | inch                  |
| 4    | 69529                                                                                                                                                           | Set 4 pinzas / Set 4 tweezers                                                                                                                       |                       |
|      | 62493                                                                                                                                                           | Alicate de terminales / Crimping pliers                                                                                                             |                       |
| 1    | 69504                                                                                                                                                           | Magnetizador-desmagnetizador / Magnetizer-demagnetizer                                                                                              |                       |
|      | 65362                                                                                                                                                           | Flexómetros / Measuring tape                                                                                                                        | 3m/10'                |
| 6    | 63714, 63715, 63716, 63717, 63718, 63719                                                                                                                        | Limas de aguja / Needle files                                                                                                                       |                       |
|      | 65595                                                                                                                                                           | Recogedor telescópico / Telescopic joing pick up                                                                                                    |                       |
|      | 65586                                                                                                                                                           | Espejo articulado / Joint telescopic mirror                                                                                                         |                       |
|      | 65774                                                                                                                                                           | Regla / Ruler                                                                                                                                       | 300 mm                |
|      | 63119                                                                                                                                                           | Cortatubos cobre / Cooper tube cutter                                                                                                               | 42 mm                 |
| 1    | 63172                                                                                                                                                           | Cortatubos acero / Steel tube cutter                                                                                                                | 2"                    |
|      | 63205                                                                                                                                                           | Cortatubos plástico Piraina / Piraina plastic pipe cutter                                                                                           |                       |
|      | 69501                                                                                                                                                           | Cortadores / Cutters                                                                                                                                |                       |
|      | 51259                                                                                                                                                           | Multímetro digital para automóviles / Automotive digital multimeter                                                                                 |                       |
|      | 65388                                                                                                                                                           | Navaja / Penknife                                                                                                                                   |                       |

■ 228 PCS.

■ MM





| COD.  | PCS.                                                                                                                         |  | Medidas en / Sizes in / Mesures en                                                                                        |  |
|-------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 68980 |                                                                                                                              | -                                                                                 |                                                                                                                           | 49                                                                                  |
| 68981 | 228                                                                                                                          | 51025                                                                             | mm                                                                                                                        | 100                                                                                 |
| 55775 |                                                                                                                              | 57060                                                                             | ●                                                                                                                         | 300                                                                                 |
| PCS.  | Composición / Composition / Composition                                                                                      |                                                                                   | Descripción / Description / Description                                                                                   |                                                                                     |
| 16    | 62214, 62215, 62216, 62217, 62218, 62219, 62220, 62221, 62222, 62223, 62224, 62225, 62226, 62227, 62228, 62229               |                                                                                   | Alicates Circlips / Circlips pliers                                                                                       |                                                                                     |
| 18    | 66400, 66401, 66403, 66407, 66408, 76621, 76622, 76624, 76625, 76626, 66439, 66440, 66441, 76629, 76630, 66457, 66458, 66459 |                                                                                   | Destornilladores mecánicos, electricistas, Phillips®, Pozidriv® / Slotted, electrician, Phillips®, Pozidriv® screwdrivers |                                                                                     |
| 13    | 66474, 66475, 66476, 66477, 66478, 66479, 66480, 66481, 66482, 66483, 66484, 66485, 66486                                    |                                                                                   | Destornilladores Torx® / Torx® screwdrivers                                                                               |                                                                                     |
| 7     | 66571, 66572, 66573, 66574, 66575, 66576, 66577                                                                              |                                                                                   | Destornilladores T-Mastertork / T-Mastertork screwdrivers                                                                 |                                                                                     |
| 13    | 61824, 61825, 61826, 61827, 61828, 61829, 61830, 61831, 61832, 61833, 61834, 61835, 61836                                    |                                                                                   | Llaves de tubo doble boca / Socket double ended wrench                                                                    |                                                                                     |
| 12    | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736                                           |                                                                                   | Llaves combinadas / Combination wrenches                                                                                  |                                                                                     |
| 8     | 61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708                                                                       |                                                                                   | Llaves fijas / Open-end wrenches                                                                                          |                                                                                     |
|       | 61775, 61776, 61777, 61778, 61779, 61780, 61781, 61782                                                                       |                                                                                   | Llaves acodadas / Double offset ring wrenches                                                                             |                                                                                     |
| 17    | 61796                                                                                                                        |                                                                                   | Juego llaves vaso / Socket wrench set                                                                                     |                                                                                     |
| 10    | 61503, 61504, 61505, 61506, 61508, 61509, 61510, 65307, 65308, 65310                                                         |                                                                                   | Llaves hexagonales / Hexagonal keys                                                                                       |                                                                                     |
| 7     | 63401, 63402, 63403, 63404, 63405, 63406, 63407                                                                              |                                                                                   | Botadores octogonales / Octagonal punches                                                                                 |                                                                                     |
| 6     | 63435, 63436, 63437, 63438, 63439, 63440                                                                                     |                                                                                   | Granetes hexagonales / Hexagonal center punches                                                                           |                                                                                     |
| 3     | 63178, 63179, 63180                                                                                                          |                                                                                   | Cortafíos / Chisel                                                                                                        |                                                                                     |
| 6     | 62332, 62340, 62342, 62343, 62344, 62349                                                                                     |                                                                                   | Alicates / Pliers                                                                                                         |                                                                                     |
| 1     | 62135                                                                                                                        |                                                                                   | Tenazas de canal / Box joint pincers                                                                                      |                                                                                     |
|       | 61112                                                                                                                        |                                                                                   | Llave ajustable / Adjustable wrench                                                                                       |                                                                                     |
| 2     | 62587, 62590                                                                                                                 |                                                                                   | Extractores / Gear pullers                                                                                                |                                                                                     |
| 1     | 63748                                                                                                                        |                                                                                   | Arco de sierra / Hack Saw                                                                                                 |                                                                                     |
|       | 62963                                                                                                                        |                                                                                   | Llave dinamométrica reversible / Reversible torque wrench                                                                 |                                                                                     |
| 7     | 69619, 69622, 69614, 69750, 69742, 69729, 69521                                                                              |                                                                                   | Martillos / Hammers                                                                                                       |                                                                                     |
| 33    | 66942                                                                                                                        |                                                                                   | Juego puntas / Bits set                                                                                                   |                                                                                     |
| 1     | 61016                                                                                                                        |                                                                                   | Llave HD / HD Pipe wrench                                                                                                 |                                                                                     |
| 3     | 62177, 62178, 62172                                                                                                          |                                                                                   | Tenazas Grip / Grip pincers                                                                                               |                                                                                     |
| 6     | 63498, 63534, 63570, 63606, 63642, 63678                                                                                     |                                                                                   | Limas / Files                                                                                                             |                                                                                     |
|       | 62233                                                                                                                        |                                                                                   | Tijera de chapa / Tin snip                                                                                                |                                                                                     |
|       | 69534                                                                                                                        |                                                                                   | Tijera electricista / Electrician's scissors                                                                              |                                                                                     |
| 1     | 65479                                                                                                                        |                                                                                   | Calibre / Caliper                                                                                                         |                                                                                     |
|       | 65155                                                                                                                        |                                                                                   | Nivel trapezoidal profesional / Professional bridge type spirit level                                                     |                                                                                     |
|       | 66731                                                                                                                        |                                                                                   | Destornillador portapuntas magnético / Screwdriver magnetic bitholder                                                     |                                                                                     |
| 10    | 60693                                                                                                                        |                                                                                   | Juego de vasos impacto / Impact socket sets                                                                               |                                                                                     |
| 4     | 69529                                                                                                                        |                                                                                   | Set 4 pinzas / Set 4 tweezers                                                                                             |                                                                                     |
|       | 62493                                                                                                                        |                                                                                   | Alicata de terminales / Crimping pliers                                                                                   |                                                                                     |
|       | 69504                                                                                                                        |                                                                                   | Magnetizador-desmagnetizador / Magnetizer-demagnetizer                                                                    |                                                                                     |
|       | 65362                                                                                                                        |                                                                                   | Flexómetros / Measuring tape                                                                                              |                                                                                     |
|       | 65595                                                                                                                        |                                                                                   | Recogedor telescópico / Telescopic joing pick up                                                                          |                                                                                     |
| 1     | 65586                                                                                                                        |                                                                                   | Espejo articulado / Joint telescopic mirror                                                                               |                                                                                     |
|       | 65774                                                                                                                        |                                                                                   | Regla / Ruler                                                                                                             |                                                                                     |
|       | 63205                                                                                                                        |                                                                                   | Cortatubos plástico Piraina / Piraina plastic pipe cutter                                                                 |                                                                                     |
|       | 69501                                                                                                                        |                                                                                   | Cortadores / Cutters                                                                                                      |                                                                                     |
|       | 65388                                                                                                                        |                                                                                   | Navaja / Penknife                                                                                                         |                                                                                     |

■ 216 PCS.

■ INCH





| COD.  | PCS. |  | Medidas en / Sizes in / Mesures en |  |
|-------|------|-----------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------|
| 68982 |      |                                                                                   | -                                  | 47                                                                                  |
| 68983 | 216  |                                                                                   | 51025                              | 95                                                                                  |
| 55776 |      |                                                                                   | 50977                              | 300                                                                                 |

| PCS. | Composición / Composition / Composition                                                                                      | Descripción / Description / Description                                                                                   |                 |
|------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------|
| 16   | 62214, 62215, 62216, 62217, 62218, 62219, 62220, 62221, 62222, 62223, 62224, 62225, 62226, 62227, 62228, 62229               | Alicates Circlips / Circlips pliers                                                                                       |                 |
| 18   | 66400, 66401, 66403, 66407, 66408, 76621, 76622, 76624, 76625, 76626, 66439, 66440, 66441, 76629, 76630, 66457, 66458, 66459 | Destornilladores mecánicos, electricistas, Phillips®, Pozidriv® / Slotted, electrician, Phillips®, Pozidriv® screwdrivers |                 |
| 13   | 66474, 66475, 66476, 66477, 66478, 66479, 66480, 66481, 66482, 66483, 66484, 66485, 66486                                    | Destornilladores Torx® / Torx® screwdrivers                                                                               | -               |
| 7    | 66571, 66572, 66573, 66574, 66575, 66576, 66577                                                                              | Destornilladores T-Mastertork / T-Mastertork screwdrivers                                                                 |                 |
| 12   | 60341, 60342, 60343, 60344, 60345, 60347, 60348, 60349, 60351, 60352, 60353, 60354                                           | Llaves combinadas / Combination wrenches                                                                                  |                 |
| 8    | 60302, 60303, 60304, 60306, 60309, 60310, 60311, 60312                                                                       | Llaves fijas / Open-end wrenches                                                                                          |                 |
|      | 60382, 60383, 60384, 60385, 60386, 60389, 60390, 60391                                                                       | Llaves acodadas / Double offset ring wrenches                                                                             |                 |
| 17   | 61798                                                                                                                        | Juego llaves vaso / Socket wrench set                                                                                     | 1/2", inch      |
| 10   | 65318, 65319, 65320, 65321, 65322, 65323, 65324, 65325, 65326, 65327                                                         | Llaves hexagonales / Hexagonal keys                                                                                       | inch            |
| 7    | 63401, 63402, 63403, 63404, 63405, 63406, 63407                                                                              | Botadores octogonales / Octagonal punches                                                                                 |                 |
| 6    | 63435, 63436, 63437, 63438, 63439, 63440                                                                                     | Granetes hexagonales / Hexagonal center punches                                                                           |                 |
| 3    | 63178, 63179, 63180                                                                                                          | Cortafíos / Chisel                                                                                                        |                 |
| 6    | 62332, 62340, 62342, 62343, 62344, 62349                                                                                     | Alicates / Pliers                                                                                                         |                 |
| 1    | 62135                                                                                                                        | Tenazas de canal / Box joint pincers                                                                                      |                 |
|      | 61112                                                                                                                        | Llave ajustable / Adjustable wrench                                                                                       |                 |
| 2    | 62587, 62590                                                                                                                 | Extractores / Gear pullers                                                                                                |                 |
|      | 63748                                                                                                                        | Arco de sierra / Hack Saw                                                                                                 |                 |
| 1    | 62963                                                                                                                        | Llave dinamométrica / Torque wrench                                                                                       | 1/2", 40-200 nm |
| 7    | 69619, 69622, 69614, 69750, 69742, 69729, 69521                                                                              | Martillos / Hammers                                                                                                       |                 |
| 33   | 66942                                                                                                                        | Juego puntas / Bits set                                                                                                   |                 |
| 1    | 61016                                                                                                                        | Llave HD / HD Pipe wrench                                                                                                 | 12"             |
| 3    | 62177, 62178, 62172                                                                                                          | Tenazas Grip / Grip pincers                                                                                               |                 |
| 6    | 63498, 63534, 63570, 63606, 63642, 63678                                                                                     | Limas / Files                                                                                                             |                 |
|      | 62233                                                                                                                        | Tijera de chapa / Tin snip                                                                                                |                 |
|      | 69534                                                                                                                        | Tijera electricista / Electrician's scissors                                                                              |                 |
| 1    | 65479                                                                                                                        | Calibre / Caliper                                                                                                         |                 |
|      | 65155                                                                                                                        | Nivel trapezoidal profesional / Professional bridge type spirit level                                                     | 400 mm          |
|      | 66731                                                                                                                        | Destornillador portapuntas magnético / Screwdriver magnetic bitholder                                                     |                 |
| 11   | 61267                                                                                                                        | Juego de vasos impacto / Impact socket sets                                                                               |                 |
| 4    | 69529                                                                                                                        | Set 4 pinzas / Set 4 tweezers                                                                                             |                 |
|      | 62493                                                                                                                        | Alicate de terminales / Crimping pliers                                                                                   |                 |
|      | 69504                                                                                                                        | Magnetizador-desmagnetizador / Magnetizer-demagnetizer                                                                    |                 |
|      | 65362                                                                                                                        | Flexómetros / Measuring tape                                                                                              | 3m/10'          |
|      | 65595                                                                                                                        | Recogedor telescópico / Telescopic joing pick up                                                                          |                 |
| 1    | 65586                                                                                                                        | Espejo articulado / Joint telescopic mirror                                                                               |                 |
|      | 65774                                                                                                                        | Regla / Ruler                                                                                                             | 300 mm          |
|      | 63205                                                                                                                        | Cortatubos plástico Piraina / Piraina plastic pipe cutter                                                                 |                 |
|      | 69501                                                                                                                        | Cortadores / Cutters                                                                                                      |                 |
|      | 65388                                                                                                                        | Navaja / Penknife                                                                                                         |                 |

■ 135 PCS.

■ MM



| COD.  | PCS.                                                                                                                                                                                 |  | Medidas en / Sizes in / Mesures en                                                     |  |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 69396 | 135                                                                                                                                                                                  | 51011                                                                             | mm                                                                                     | 60                                                                                  |
| PCS.  | Composición / Composition / Composition                                                                                                                                              |                                                                                   | Descripción / Description / Description                                                |                                                                                     |
| 25    | 61960                                                                                                                                                                                |                                                                                   | Juego / Set                                                                            |                                                                                     |
|       | 69280                                                                                                                                                                                |                                                                                   | Juego llaves combinadas / Combination wrenches set                                     |                                                                                     |
| 26    | 61870, 61871, 61872, 61873, 61874, 61875, 61876, 61877, 61878, 61879, 61880, 61881, 61882, 61883, 61884, 61885, 61886, 61887, 61888, 61889, 61890, 61891, 61892, 61893, 61894, 61895 |                                                                                   | Llaves de pipa / Angled sockets                                                        |                                                                                     |
| 10    | 61500                                                                                                                                                                                |                                                                                   | Juego llaves Allen / Allen keys wrenches Set                                           |                                                                                     |
|       | 61110                                                                                                                                                                                |                                                                                   | Llave ajustable Unique Plus / Unique Plus adjustable wrench                            |                                                                                     |
| 1     | 61935                                                                                                                                                                                |                                                                                   | Llave ajustable Alavesa Combi Unique Plus / Basque Combi Unique Plus adjustable wrench |                                                                                     |
| 5     | 66877, 66878, 66879, 66881, 66882                                                                                                                                                    |                                                                                   | Destornilladores mecánico / Slotted screwdriver                                        |                                                                                     |
|       | 66898, 66899, 66900                                                                                                                                                                  |                                                                                   | Destornilladores Phillips® Rotork / Phillips® Rotork screwdrivers                      |                                                                                     |
| 3     | 66908, 66909, 66910                                                                                                                                                                  |                                                                                   | Destornilladores Pozidriv® / Pozidriv® screwdrivers                                    |                                                                                     |
|       | 66921, 66923, 66926                                                                                                                                                                  |                                                                                   | Destornilladores Torx® Rotork / Rotork Torx® screwdrivers                              |                                                                                     |
|       | 62332                                                                                                                                                                                |                                                                                   | Alicate universal Titacrom® / Titacrom® Combination pliers                             |                                                                                     |
|       | 62340                                                                                                                                                                                |                                                                                   | Alicate telefonista Titacrom® / Titacrom® Long nose pliers pliers                      |                                                                                     |
|       | 62342                                                                                                                                                                                |                                                                                   | Alicate telefonista b/curva / Titacrom® bent nose pliers                               |                                                                                     |
|       | 62344                                                                                                                                                                                |                                                                                   | Cortaalambres reforzado / Heavy Duty cutting nippers                                   |                                                                                     |
|       | 62129                                                                                                                                                                                |                                                                                   | Tenaza canal / Box joint plier                                                         |                                                                                     |
| 1     | 62172                                                                                                                                                                                |                                                                                   | Tenaza Grip curva / Curved Grip pliers                                                 |                                                                                     |
|       | 62349                                                                                                                                                                                |                                                                                   | Alicate pelacables / Wirestripper                                                      |                                                                                     |
|       | 62216                                                                                                                                                                                |                                                                                   | Alicate Circlips exterior recto / External straight Circlips pliers                    |                                                                                     |
|       | 62220                                                                                                                                                                                |                                                                                   | Alicate Circlips exterior curvo / External bent Circlips pliers                        |                                                                                     |
|       | 62224                                                                                                                                                                                |                                                                                   | Alicate Circlips interior recto / Internal straight Circlips pliers                    |                                                                                     |
|       | 62228                                                                                                                                                                                |                                                                                   | Alicate Circlips interior curvo / Internal bent Circlips pliers                        |                                                                                     |
|       | 63748                                                                                                                                                                                |                                                                                   | Arco de sierra / Hack Saw                                                              |                                                                                     |
| 10    | 64435                                                                                                                                                                                |                                                                                   | Hojas de sierra acero al carbono / Carbon steel hacksaw blade                          |                                                                                     |
|       | 69621                                                                                                                                                                                |                                                                                   | Martillo alemán / German type machinist's hammer                                       |                                                                                     |
|       | 69616                                                                                                                                                                                |                                                                                   | Martillo de bola / Ball pein hammer                                                    |                                                                                     |
|       | 55326                                                                                                                                                                                |                                                                                   | Martillo de nylon / Nylon hammer                                                       |                                                                                     |
|       | 61017                                                                                                                                                                                |                                                                                   | Llave Heavy Duty / Heavy Duty pipe wrench                                              |                                                                                     |
| 1     | 61035                                                                                                                                                                                |                                                                                   | Llave de cadena reversible / Reversible chain pipe wrench                              |                                                                                     |
|       | 61480                                                                                                                                                                                |                                                                                   | Llave de correa / Strap wrench                                                         |                                                                                     |
|       | 63119                                                                                                                                                                                |                                                                                   | Cortatubos Unique / Unique tube cutter                                                 |                                                                                     |
|       | 68003                                                                                                                                                                                |                                                                                   | Abocinador / Pulg flaring tool                                                         |                                                                                     |
|       | 62151                                                                                                                                                                                |                                                                                   | Tenaza cortacables / Cable cutters                                                     |                                                                                     |
|       | 69501                                                                                                                                                                                |                                                                                   | Cortadores / Cutters                                                                   |                                                                                     |

■ 109 PCS.

■ MM



| COD.  | PCS. |  | Medidas en / Sizes in / Mesures en |  |  |
|-------|------|-------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 68984 |      | -                                                                                   |                                    |                                                                                       | 27                                                                                    |
| 68985 | 109  | 51674                                                                               | mm                                 | -                                                                                     | 65                                                                                    |
| 55777 |      | 51025                                                                               |                                    | ●                                                                                     | 120                                                                                   |

| PCS. | Composición / Composition / Composition                                            | Descripción / Description / Description                                                       |                 |
|------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------|
| 8    | 62214, 62215, 62216, 62217, 62222, 62223, 62224, 62225                             | Alicates Circlips / Circlips pliers                                                           |                 |
| 11   | 66400, 66401, 66403, 66407, 66408, 66439, 66440, 66441, 66457, 66458, 66459        | Destornilladores mecánicos, Phillips®, Pozidriv® / Slotted, Phillips®, Pozidriv® screwdrivers | -               |
| 10   | 66475, 66476, 66477, 66478, 66479, 66480, 66481, 66482, 66483, 66484               | Destornilladores Torx® / Torx® screwdrivers                                                   |                 |
| 12   | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736 | Llaves combinadas / Combination wrenches                                                      | mm              |
| 8    | 61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708                             | Llaves fijas / Open-end wrenches                                                              |                 |
|      | 61775, 61776, 61777, 61778, 61779, 61780, 61781, 61782                             | Llaves acodadas / Double offset ring wrenches                                                 | -               |
| 17   | 61796                                                                              | Juego llaves vaso / Socket wrench set                                                         | 1/2", mm        |
| 10   | 61503, 61504, 61505, 61506, 61508, 61509, 61510, 65307, 65308, 65310               | Llaves hexagonales / Hexagonal keys                                                           | mm              |
| 3    | 63402, 63404, 63406                                                                | Botillos / Punches                                                                            |                 |
| 1    | 63179                                                                              | Cortafíos / Chisel                                                                            |                 |
| 4    | 62332, 62343, 62344, 62349                                                         | Alicates / Pliers                                                                             | -               |
| 1    | 62135                                                                              | Tenazas de canal / Box joint pincers                                                          |                 |
|      | 61112                                                                              | Llave ajustable / Adjustable wrench                                                           |                 |
| 2    | 62587, 62590                                                                       | Extractores / Gear pullers                                                                    |                 |
| 1    | 62963                                                                              | Llave dinamoétrica reversible / Reversible torque wrench                                      | 1/2", 40-200 nm |
| 4    | 69619, 69622, 69614, 69750                                                         | Martillos / Hammers                                                                           |                 |
| 1    | 62178                                                                              | Tenazas Grip / Grip pincers                                                                   |                 |
| 3    | 63498, 63570, 63678                                                                | Limas / Files                                                                                 | -               |
|      | 62233                                                                              | Tijera de chapa / Tin snip                                                                    |                 |
| 1    | 65362                                                                              | Flexómetros / Measuring tape                                                                  | 3 m/10'         |
|      | 65595                                                                              | Recogedor telescópico / Telescopic joing pick up                                              |                 |
|      | 69501                                                                              | Cortadores / Cutters                                                                          | -               |

■ INCH





| COD.  | PCS. |       | Medidas en / Sizes in / Mesures en |     |
|-------|------|-------|------------------------------------|-----|
| 68986 |      | -     |                                    | 27  |
| 68987 | 109  | 51674 | inch                               | 65  |
| 55778 |      | 51025 | ●                                  | 120 |

| PCS. | Composición / Composition / Composition                                            | Descripción / Description / Description                                                       |                 |
|------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------|
| 8    | 62214, 62215, 62216, 62217, 62222, 62223, 62224, 62225                             | Alicates Circlips / Circlips pliers                                                           |                 |
| 11   | 66400, 66401, 66403, 66407, 66408, 66439, 66440, 66441, 66457, 66458, 66459        | Destornilladores mecánicos, Phillips®, Pozidriv® / Slotted, Phillips®, Pozidriv® screwdrivers | -               |
| 10   | 66475, 66476, 66477, 66478, 66479, 66480, 66481, 66482, 66483, 66484               | Destornilladores Torx® / Torx® screwdrivers                                                   |                 |
| 12   | 60341, 60342, 60343, 60344, 60345, 60347, 60348, 60349, 60351, 60352, 60353, 60354 | Llaves combinadas / Combination wrenches                                                      |                 |
| 8    | 60302, 60303, 60304, 60306, 60309, 60310, 60311, 60312                             | Llaves fijas / Open-end wrenches                                                              | inch            |
|      | 60382, 60383, 60384, 60385, 60386, 60389, 60390, 60391                             | Llaves acodadas / Double offset ring wrenches                                                 |                 |
| 17   | 61798                                                                              | Juego llaves vaso / Socket wrench set                                                         | 1/2", inch      |
| 10   | 65318, 65319, 65320, 65321, 65322, 65323, 65324, 65325, 65326, 65327               | Llaves hexagonales / Hexagonal keys                                                           |                 |
| 3    | 63402, 63404, 63406                                                                | Botadores / Punches                                                                           |                 |
| 1    | 63179                                                                              | Cortafíos / Chisel                                                                            |                 |
| 4    | 62332, 62343, 62344, 62349                                                         | Alicates / Pliers                                                                             | -               |
| 1    | 62135                                                                              | Tenazas de canal / Box joint pincers                                                          |                 |
|      | 61112                                                                              | Llave ajustable / Adjustable wrench                                                           |                 |
| 2    | 62587, 62590                                                                       | Extractores / Gear pullers                                                                    |                 |
| 1    | 62963                                                                              | Llave dinamométrica reversible / Reversible torque wrench                                     | 1/2", 40-200 nm |
| 4    | 69619, 69622, 69614, 69750                                                         | Martillos / Hammers                                                                           |                 |
| 1    | 62178                                                                              | Tenazas Grip / Grip pincers                                                                   |                 |
| 3    | 63498, 63570, 63678                                                                | Limas / Files                                                                                 |                 |
|      | 62233                                                                              | Tijera de chapa / Tin snip                                                                    |                 |
|      | 65362                                                                              | Flexómetros / Measuring tape                                                                  | 3 m/10'         |
| 1    | 65595                                                                              | Recogedor telescópico / Telescopic joing pick up                                              |                 |
|      | 69501                                                                              | Cortadores / Cutters                                                                          |                 |

## ■ 102 PCS.



## ■ MM

| COD.         | PCS.                                    |  |  |
|--------------|-----------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>69398</b> | 102                                     | 51012                                                                             | 17                                                                                |
| PCS.         | Composición / Composition / Composition | Descripción / Description / Description                                           |                                                                                   |
| 25           | 61960                                   | Juego / Set                                                                       | 1/2", 25 pcs                                                                      |
| 12           | 69795                                   | Juego llaves fijas / Open end wrenches set                                        | 12 pcs                                                                            |
|              | 69278                                   | Juego llaves combinadas / Combination wrenches set                                | 6/7/8/9/10/11/12/13/14/15/16/17                                                   |
| 10           | 61500                                   | Juego llaves Allen / Allen keys wrenches Set                                      | 1,5/2,2,5/3/4/5/5,6/8/10, hex.                                                    |
| 2            | 61110, 61113                            | Llaves ajustables Unique / Unique adjustable wrenches                             | 6"/12"                                                                            |
| 5            | 66877, 66878, 66879, 66881, 66882       | Destornilladores mecánico Rotork / Rotork slotted screwdrivers                    |                                                                                   |
|              | 66898, 66899, 66900                     | Destornilladores Phillips® Rotork / Phillips® Rotork screwdrivers                 |                                                                                   |
|              | 66908, 66909, 66910                     | Destornilladores Pozidriv® Rotork / Pozidriv® Rotork screwdrivers                 |                                                                                   |
| 3            | 66921, 66923, 66926                     | Destornilladores Torx® Rotork / Rotork Torx® screwdrivers                         |                                                                                   |
|              | 66937, 66938, 66939                     | Destornilladores carroceros Rotork / Rotork Stubby screwdrivers                   |                                                                                   |
|              | 62332                                   | Alicate universal Titacrom® Bimat / Titacrom® Bimat combination pliers            |                                                                                   |
|              | 62337                                   | Alicate b/plana Titacrom® Bimat / Titacrom® Bimat flat nose pliers                |                                                                                   |
|              | 62338                                   | Alicate b/redonda Titacrom® Bimat / Titacrom® Bimat round nose pliers             |                                                                                   |
|              | 62341                                   | Alicate telefonista b/curva Titacrom® Bimat / Titacrom® Bimat bent nose pliers    |                                                                                   |
|              | 62343                                   | Alicate c/diagonal Titacrom® Bimat / Titacrom® Bimat cutting pliers               |                                                                                   |
| 1            | 62445                                   | Tenaza Pico Loro Bimat / Bimat groove joint                                       |                                                                                   |
|              | 62231                                   | Tenaza Grip recta / Straight grip pliers                                          |                                                                                   |
|              | 62183                                   | Alicate Circlips exterior recto / External straight Circlips pliers               |                                                                                   |
|              | 62182                                   | Alicate Circlips exterior curvo / External bent Circlips pliers                   |                                                                                   |
|              | 62181                                   | Alicate Circlips interior recto / Internal straight Circlips pliers               |                                                                                   |
|              | 62180                                   | Alicate Circlips interior curvo / Internal bent Circlips pliers                   |                                                                                   |
|              | 63748                                   | Arco de sierra / Hack Saw                                                         |                                                                                   |
| 10           | 64435                                   | Hojas de sierra acero al carbono / Carbon steel hacksaw blade                     | 24 TPI                                                                            |
| 1            | 69604                                   | Martillo ebanista / Joiners hammer                                                |                                                                                   |
|              | 55326                                   | Martillo de nylon / Nylon hammer                                                  |                                                                                   |



## ■ 57 PCS.



## ■ INCH

| COD.         | PCS.                                                                               |                                          | Medidas en / Sizes in / Mesures en |  |
|--------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------|
| <b>68990</b> |                                                                                    | -                                                                                                                         |                                    | 9                                                                                 |
| <b>68991</b> | 57                                                                                 | 51011                                                                                                                     | inch                               | 34                                                                                |
| PCS.         | Composición / Composition / Composition                                            | Descripción / Description / Description                                                                                   |                                    |                                                                                   |
| 1            | 62213                                                                              | Alicates Circlips / Circlips pliers                                                                                       |                                    |                                                                                   |
| 11           | 66400, 66401, 66403, 66407, 66408, 66439, 66440, 66441, 66457, 66458, 66459        | Destornilladores mecánicos, electricistas, Phillips®, Pozidriv® / Slotted, electrician, Phillips®, Pozidriv® screwdrivers |                                    |                                                                                   |
| 12           | 60341, 60342, 60343, 60344, 60345, 60347, 60348, 60349, 60351, 60352, 60353, 60354 | Llaves combinadas / Combination wrenches                                                                                  |                                    |                                                                                   |
| 17           | 61798                                                                              | Juego llaves vaso / Socket wrench set                                                                                     |                                    |                                                                                   |
| 7            | 65320, 65321, 65322, 65323, 65324, 65325, 65326                                    | Llaves hexagonales / Hexagonal keys                                                                                       |                                    |                                                                                   |
| 1            | 62963                                                                              | Llave dinamométrica reversible / Reversible torque wrench                                                                 |                                    |                                                                                   |
| 3            | 62332, 62343, 62344                                                                | Alicates / Pliers                                                                                                         |                                    |                                                                                   |
| 1            | 62135                                                                              | Tenazas de canal / Box joint pincers                                                                                      |                                    |                                                                                   |
| 1            | 61112                                                                              | Llave ajustable / Adjustable wrench                                                                                       |                                    |                                                                                   |
| 2            | 69622, 69614                                                                       | Martillos / Hammers                                                                                                       |                                    |                                                                                   |
| 1            | 69534                                                                              | Tijera electricista / Electrician's scissors                                                                              |                                    |                                                                                   |



## ■ 53 PCS.

## ■ MM

| COD.         | PCS.                                                                               |                                        | Medidas en / Sizes in / Mesures en |  |
|--------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------|
| <b>68988</b> |                                                                                    | -                                                                                                                         |                                    | 8                                                                                   |
| <b>68989</b> | 53                                                                                 | 51011                                                                                                                     | mm                                 | 33                                                                                  |
| PCS.         | Composición / Composition / Composition                                            | Descripción / Description / Description                                                                                   |                                    |                                                                                     |
| 1            | 62213                                                                              | Alicates Circlips / Circlips pliers                                                                                       |                                    |                                                                                     |
| 7            | 66401, 66403, 66407, 66439, 66440, 66457, 66458                                    | Destornilladores mecánicos, electricistas, Phillips®, Pozidriv® / Slotted, electrician, Phillips®, Pozidriv® screwdrivers |                                    |                                                                                     |
| 12           | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736 | Llaves combinadas / Combination wrenches                                                                                  |                                    |                                                                                     |
| 17           | 61796                                                                              | Juego llaves vaso / Socket wrench set                                                                                     |                                    |                                                                                     |
| 7            | 61504, 61505, 61506, 61508, 61509, 61510, 65307                                    | Llaves hexagonales / Hexagonal keys                                                                                       |                                    |                                                                                     |
| 1            | 62963                                                                              | Llave dinamométrica reversible / Reversible torque wrench                                                                 |                                    |                                                                                     |
| 3            | 62332, 62343, 62344                                                                | Alicates / Pliers                                                                                                         |                                    |                                                                                     |
| 1            | 62135                                                                              | Tenazas de canal / Box joint pincers                                                                                      |                                    |                                                                                     |
| 1            | 61112                                                                              | Llave ajustable / Adjustable wrench                                                                                       |                                    |                                                                                     |
| 2            | 69622, 69614                                                                       | Martillos / Hammers                                                                                                       |                                    |                                                                                     |
| 1            | 69534                                                                              | Tijera electricista / Electrician's scissors                                                                              |                                    |                                                                                     |





■ 47 PCS.

■ MM



| COD.  | PCS. |  | Medidas en / Sizes in / Mesures en |  |
|-------|------|-----------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------|
| 68992 |      | -                                                                                 |                                    | 16                                                                                |
| 68993 | 47   | 51011                                                                             | mm                                 | 41                                                                                |

| PCS. | Composición / Composition / Composition | Descripción / Description / Description                                                                                                    |                                          |
|------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| 12   | 69251                                   | Juego llaves fijas / Open end wrenches set<br>6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 25x28 - 30x32 mm |                                          |
| 2    | 63178, 63179                            | Cortafíos / Chisel                                                                                                                         | 160-200                                  |
|      | 61112                                   | Llave ajustable / Adjustable wrench                                                                                                        | 10"                                      |
|      | 63172                                   | Cortatubos acero / Steel tube cutter                                                                                                       | 2"                                       |
|      | 63119                                   | Cortatubos de cobre Unique / Tube cutter Unique                                                                                            | -                                        |
|      | 61004                                   | Llave Stillson / Stillson pipe wrench                                                                                                      | 14"                                      |
|      | 61465                                   | Llave Blitz / Blitz Wrench                                                                                                                 | 175                                      |
| 1    | 62133                                   | Tenaza de canal / Box joint                                                                                                                | 10"                                      |
|      | 62233                                   | Tijera para chapa / Tin snip                                                                                                               | 12"                                      |
|      | 62172                                   | Tenaza Grip boca curva / Curved jaw grip plier                                                                                             | 10"                                      |
|      | 69534                                   | Tijera electricista / Electrician's scissors                                                                                               | -                                        |
|      | 62333                                   | Alicate universal Titacrom® / Titacrom® Combination pliers                                                                                 | 180                                      |
| 5    | 66400, 66401, 66403, 66405, 66407       | Destornilladores Mastertork / Mastertork Screwdrivers                                                                                      | 3x80 - 4x100 - 5,5x125 - 6,5x150 - 8x200 |
| 2    | 66439, 66440                            |                                                                                                                                            | PH1 - PH2                                |
|      | 69619                                   | Martillo mecánico alemán / German type machinist's hammer                                                                                  | 300 g                                    |
|      | 65172                                   | Flexómetro Rallye II / Rallye II Measuring tape                                                                                            | 3 m/16 mm                                |
|      | 63570                                   | Lima media caña entrefina / Medium half round file                                                                                         |                                          |
| 1    | 63678                                   | Lima redonda entrefina / Medium round file                                                                                                 | 8"                                       |
|      | 65293                                   | Nivel trapezoidal profesional / Professional bridge type spirit level                                                                      | 400 mm                                   |
|      | 63748                                   | Arco de sierra / Hack Saw                                                                                                                  | -                                        |
|      | 68003                                   | Abocinador / Pulg flaring tool                                                                                                             | mm                                       |
|      | 61480                                   | Llave de correa / Strap wrench                                                                                                             | 450 mm                                   |
| 8    | 68172                                   | Set curvatubos carraca / Ratchet tube bender set                                                                                           | mm                                       |



## ■ 26 PCS.

## ■ MM

| COD.         | PCS.  |  |  |         |
|--------------|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|
| <b>69538</b> | 26    | 51013                                                                             | 4,5                                                                               |         |
| PCS.         | COD.  | PCS.                                                                              | Descripción / Description / Description                                           |         |
|              | 61112 |                                                                                   | Llave ajustable Unique Plus Titacrom® / Unique Plus Titacrom® Adjustable wrench   | 10"     |
| 1            | 62479 |                                                                                   | Alicate universal Mastercut / Mastercut Combination pliers                        | 210 mm  |
|              | 62499 |                                                                                   | Alicate telefonista Mastercut / Mastercut Long nose pliers                        | 200 mm  |
|              | 62343 |                                                                                   | Alicate corte diagonal / Diagonal cutting plier                                   | 160 mm  |
| 10           | 61496 |                                                                                   | Set Allen punta bola / Long pattern ballpoint Allen set                           | -       |
|              | 66401 |                                                                                   |                                                                                   | 4x100   |
|              | 66403 |                                                                                   | Destornillador mecánico / Slotted screwdriver                                     | 5,5x125 |
|              | 66405 |                                                                                   |                                                                                   | 6,5x150 |
|              | 66406 |                                                                                   |                                                                                   | 8x150   |
|              | 66439 |                                                                                   | Destornillador Phillips® / Phillips® screwdrivers                                 | PH1     |
|              | 66440 |                                                                                   |                                                                                   | PH2     |
|              | 66457 |                                                                                   | Destornillador Pozidriv® / Screwdriver Pozidriv®                                  | PZ1     |
|              | 66458 |                                                                                   |                                                                                   | PZ2     |
|              | 69613 |                                                                                   | Martillo de bola / Ball pein hammer                                               | 425 g   |
|              | 63326 |                                                                                   | Cinzel / Flat chisel                                                              | 23x200  |
|              | 63748 |                                                                                   | Arco de Sierra / Hack Saw                                                         | -       |
|              | 62850 |                                                                                   | Cortafíos / Chisel                                                                | 20x200  |



## ■ MM



| COD.         | PCS.  |  |    |         |
|--------------|-------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------|
| <b>51620</b> | 26    | 51010                                                                               | 7,0                                                                                   |         |
| PCS.         | COD.  | PCS.                                                                                | Descripción / Description / Description                                               |         |
|              | 62450 |                                                                                     | Alicate universal bimat / Combination plier bimat                                     |         |
| 1            | 62339 |                                                                                     | Alicate telefonista Titacrom® / Long nose plier titacrom® bimat                       | 160 mm  |
|              | 62459 |                                                                                     | Alicate corte diagonal bimat / Diagonal cutting plier bimat                           |         |
|              | 62411 |                                                                                     | Tenaza pico loro automática / Auto grip groove joint plier                            | 8"      |
| 1            | 61229 |                                                                                     | Llave ajustable de gran apertura Titacrom® / Wide opening adjustable wrench Titacrom® | 6"      |
|              | 66886 |                                                                                     |                                                                                       | 3x60    |
|              | 66888 |                                                                                     | Destornillador electricista Rotork / Electrician screwdriver Rotork                   | 4x125   |
|              | 66890 |                                                                                     |                                                                                       | 5x150   |
|              | 66898 |                                                                                     | Destornillador Phillips® Rotork / Screwdriver Phillips® Rotork                        | PH-1    |
| 10           | 66908 |                                                                                     | Destornillador Pozidriv® Rotork / Screwdriver Pozidriv® Rotork                        | PZ-1    |
|              | 61500 |                                                                                     | Juego 10 llaves allen / Set of 10 hexagonal key wrenches                              | 1,5-10  |
|              | 65172 |                                                                                     | Flexómetro Rallye II / Rallye II Measuring tape                                       | 3m/16mm |
| 1            | 66909 |                                                                                     | Destornillador Pozidriv® Rotork / Screwdriver Pozidriv® Rotork                        | PZ-2    |
|              | 66899 |                                                                                     | Destornillador Phillips® Rotork / Screwdriver Phillips® Rotork                        | PH-2    |
|              | 69614 |                                                                                     | Martillo bola madera / Ball pein hammer                                               | -       |
|              | 61405 |                                                                                     | Llave Mastergrip / Mastergrip wrench                                                  | 10"     |
|              | 69534 |                                                                                     | Tijera electricista / Electrician scissors                                            | 145 mm  |



**JUEGOS FONTANERÍA Y AIRE ACONDICIONADO / PLUMBING AND CONDITIONED AIR SETS / SETS PLOMBERIE ET AIR CONDITIONNEE / WERKZEUG SETS FÜR KLEMPNER UND KLIMATECHNIK / KIT PER IDRAULICA E CONDIZIONAMENTO / JOGOS DE CANALIZAÇÃO E AR CONDICIONADO / НАБОРЫ ДЛЯ КОНДИЦИОНИРОВАНИЯ И ДЛЯ САНТЕХНИКИ**

114 PCS.



MM

| COD.  | PCS.                                    |                |  |
|-------|-----------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 69393 | 114                                     | 51012                                                                                           | 20                                                                                |
| PCS.  | Composición / Composition / Composition | Descripción / Description / Description                                                         |                                                                                   |
| 12    | 69795                                   | Juego llaves fijas / Open end wrenches set                                                      | 12 pcs                                                                            |
| 10    | 69256                                   | Juego llaves acodadas / Double offset wrenches set                                              | 10 pcs                                                                            |
| 1     | 61113                                   | Llave Ajustable Unique Titacrom® / Unique Titacrom® adjustable wrench                           | 12"                                                                               |
| 29    | 61958                                   | Juego / Set                                                                                     | 1/4", 29 pcs                                                                      |
| 2     | 61305, 61306                            | Llaves de vaso de doble articulación / Double ended swivel                                      | 16-17/18-19                                                                       |
| 10    | 61500                                   | Juego llaves Allen / Allen keys wrenches Set                                                    | 1,5/2/2,5/3/4/5/5,5/6/8/10, hex.                                                  |
| 5     | 66874, 66876, 66878, 66880, 66881       | Destornilladores mecánicos Rotork / Rotork slotted screwdrivers                                 |                                                                                   |
|       | 76651, 76653, 76654                     | Destornilladores varilla protegida Rotork / Rotork Insulated screwdrivers                       |                                                                                   |
| 3     | 76655, 76656, 76657                     | Destornilladores varilla protegida Phillips® Rotork / Rotork Phillips® insulated screwdrivers   |                                                                                   |
|       | 76659, 76660, 76661                     | Destornilladores varilla protegida Pozidriv® Rotork / Rotork Pozidriv® insulated screwdrivers   |                                                                                   |
| 4     | 66920, 66921, 66922, 66923              | Destornilladores Torx® Microtronic / Torx® Microtronic screwdrivers                             |                                                                                   |
| 3     | 66937, 66938, 66939                     | Destornilladores carroceros Rotork / Rotork Stubby screwdrivers                                 |                                                                                   |
|       | 66071                                   | Destornillador buscapolos / Voltage tester screwdriver                                          |                                                                                   |
|       | 61011                                   | Llave sueca / Swedish pipe wrench                                                               | S-45°                                                                             |
| 1     | 61035                                   | Llave de cadena reversible / Reversible chain pipe wrench                                       | -                                                                                 |
|       | 63105                                   | Cortatubos Telescopico / Telescopic tube cutter                                                 | 32                                                                                |
| 6     | 68052                                   | Kit frigorifista / Refrigeration Kit                                                            |                                                                                   |
| 1     | 63748                                   | Arco de sierra / Hack Saw                                                                       |                                                                                   |
| 10    | 64435                                   | Hojas de sierra acero al carbono / Carbon steel hacksaw blade                                   |                                                                                   |
|       | 69501                                   | Cortadores / Cutters                                                                            |                                                                                   |
|       | 69604                                   | Martillo ebanista / Joiners hammer                                                              |                                                                                   |
|       | 62332                                   | Alicate universal Titacrom® Bimat / Titacrom® Bimat combination pliers                          |                                                                                   |
|       | 62342                                   | Alicate telefonista b/curva Titacrom® Bimat / Titacrom® Bimat bent nose pliers                  |                                                                                   |
| 1     | 62344                                   | Alicate cortaalambres Titacrom® Bimat Heavy Duty / Titacrom® Bimat, Heavy Duty cutting knippers |                                                                                   |
|       | 62349                                   | Alicate pelacables Bimat / Bimat wirestripper pliers                                            |                                                                                   |
|       | 62297                                   | Tenaza canal Bimat Box / Bimat Box joint pliers                                                 |                                                                                   |
|       | 62178                                   | Tenaza Grip Curva / Curved Grip pliers                                                          |                                                                                   |



## ■ 68 PCS.



## ■ MM

| COD.  | PCS.                                    |                               |  |
|-------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 69397 | 68                                      | 51012                                                                                                          | 19                                                                                |
| PCS.  | Composición / Composition / Composition | Descripción / Description / Description                                                                        |                                                                                   |
| 12    | 69795                                   | Juego llaves Fijas / Open end wrenches set                                                                     | 12 pcs                                                                            |
|       | 61935                                   | Llave Combi Alavasa ajustable / Basque adjustable wrench combi                                                 | 12"                                                                               |
| 1     | 61004                                   | Llave Stillson / Stillson pipe wrench                                                                          | 14"                                                                               |
|       | 61041                                   | Llave Sueca / Swedish pipe wrench                                                                              | 45°, 1"                                                                           |
|       | 61035                                   | Llave de cadena reversible / Reversible chain pipe wrench                                                      | -                                                                                 |
| 10    | 61500                                   | Juego llaves Allen / Allen keys wrenches Set                                                                   | 1,5/2/2,5/3/4/5/5,5/6/8/10, hex.                                                  |
| 1     | 61009                                   | Llave de lavabo / Basin Wrench                                                                                 |                                                                                   |
| 5     | 66875, 66877, 66879, 66881, 66882       | Destornilladores mecánico Rotork / Rotork slotted screwdriver                                                  |                                                                                   |
| 3     | 66898, 66899, 66900                     | Destornilladores Phillips® Rotork / Phillips® Rotork screwdrivers                                              |                                                                                   |
| 2     | 66909, 66910                            | Destornilladores Pozidriv® Rotork / Pozidriv® Rotork screwdrivers                                              |                                                                                   |
| 4     | 66921, 66923, 66926, 66927              | Destornilladores Torx® Rotork / Rotork Torx® screwdrivers                                                      |                                                                                   |
|       | 62333                                   | Alicate universal Titacrom® Bimat / Titacrom® Bimat combination pliers                                         | -                                                                                 |
|       | 62344                                   | Alicate cortaalambres Titacrom® Bimat Heavy Duty Knippers / Titacrom® Bimat Heavy Duty Knippers cutting pliers |                                                                                   |
|       | 62172                                   | Tenaza Grip Curva / Curved Grip pliers                                                                         |                                                                                   |
|       | 62294                                   | Tenaza canal Titacrom® Box / Titacrom® Box Joint pliers                                                        |                                                                                   |
| 1     | 62123                                   | Tenaza rusa Titacrom® / Titacrom® Tower pincer                                                                 |                                                                                   |
|       | 63170                                   | Cortatubos Classic / Classic Tube cutter                                                                       | 32                                                                                |
|       | 63171                                   | Cortatubos acero / Steel tube cutter                                                                           | 1.1/4"                                                                            |
|       | 63200                                   | Tijera para tubo de plástico / Plastic pipe cutter                                                             |                                                                                   |
|       | 62159                                   | Tijera cortachapa / Tin Snip                                                                                   | -                                                                                 |
|       | 63748                                   | Arco de Sierra / Hack Saw                                                                                      |                                                                                   |
| 10    | 64435                                   | Hojas de sierra acero al carbono / Carbon steel hacksaw blade                                                  | 24 dientes / 24 teeth                                                             |
|       | 69620                                   | Martillo alemán / German type machinist's hammer                                                               |                                                                                   |
| 1     | 69605                                   | Maceta / Stoning hammer                                                                                        |                                                                                   |
|       | 68003                                   | Abocinador / Pulg flaring tool                                                                                 |                                                                                   |
|       | 69505                                   | Desatascador de muelle / Spring pipe cleaner                                                                   |                                                                                   |
| 3     | 68043, 68045, 68054                     | Muelles curvatubos / Sping tube benders                                                                        | 10-14-18                                                                          |



■ 24 PCS.

■ MM



| COD.         | PCS.  |  |  |         |
|--------------|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|
| <b>69537</b> | 24    | 51013                                                                             | 8,0                                                                               |         |
| PCS.         | COD.  | PCS.                                                                              | Descripción / Description / Description                                           |         |
|              | 61934 |                                                                                   | Llave ajustable Alavesa combi / Basque Combi adjustable wrench                    | 10"     |
|              | 61017 |                                                                                   | Llave Heavy Duty / Heavy Duty pipe wrench                                         | 14"     |
| 1            | 63172 |                                                                                   | Cortatubos acero / Steel tube cutter                                              | 2"      |
|              | 62479 |                                                                                   | Alicate universal Mastercut / Mastercut Combination pliers                        | 210 mm  |
|              | 62499 |                                                                                   | Alicate telefonista Mastercut / Mastercut Long nose pliers                        | 200 mm  |
|              | 62343 |                                                                                   | Alicate corte diagonal / Diagonal cutting plier                                   | 160 mm  |
| 10           | 61496 |                                                                                   | Set Allen punta bola / Long patern ballpoint Allen set                            | -       |
|              | 66401 |                                                                                   |                                                                                   | 4x100   |
|              | 66403 |                                                                                   |                                                                                   | 5,5x125 |
|              | 66405 |                                                                                   | Destornillador mecánico / Slotted screwdriver                                     | 6,5x150 |
|              | 66406 |                                                                                   |                                                                                   | 8x150   |
| 1            | 66439 |                                                                                   | Destornillador Phillips® / Phillips® screwdriver                                  | PH1     |
|              | 66440 |                                                                                   |                                                                                   | PH2     |
|              | 63119 |                                                                                   | Cortatubos Unique / Unique tube cutter                                            | 42      |
|              | 63748 |                                                                                   | Arco de Sierra / Hack Saw                                                         | -       |



# EGGA Master

## ART IN INNOVATION

**JUEGOS ELECTRICIDAD / ELECTRICIAN SETS / SETS ÉLECTRICIENS / WERKZEUGSÄTZE FÜR ELEKTRIZITÄT / KIT ELETTRICISTI / JOGOS ÉTRICIDADE / НАБОР ЭЛЕКТРИКА**
**99 PCS.**
**MM**

| COD.         | PCS.                                    |              |  |
|--------------|-----------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>69390</b> | 99                                      | 51010                                                                                         | 8,0                                                                               |
| PCS.         | Composición / Composition / Composition | Descripción / Description / Description                                                       |                                                                                   |
| 29           | 61958                                   | Juego / Set                                                                                   | 1/4", 29 pcs                                                                      |
| 6            | 69248                                   | Juego de llaves fijas / Open end wrenches set                                                 | 6-7/8-9/10-11/12-13/14-15/16-17                                                   |
| 1            | 61110                                   | Llave ajustable Unique Plus Titacrom® / Unique Plus Titacrom® Adjustable wrench               | 6"                                                                                |
| 4            | 66846, 66847, 66848, 66849              | Destornilladores boca plana Microtronic / Microtronic flat nose screwdrivers                  |                                                                                   |
| 3            | 66850, 66851, 66852                     | Destornilladores Phillips® Microtronic / Phillips® Microtronic screwdrivers                   |                                                                                   |
| 2            | 66853, 66854                            | Destornilladores Pozidriv® Microtronic / Pozidriv® Microtronic screwdrivers                   | -                                                                                 |
| 5            | 66855, 66856, 66857, 66858, 66859       | Destornilladores Torx® Microtronic / Torx® Microtronic screwdrivers                           |                                                                                   |
| 4            | 57684, 57685, 66864, 66865              | Destornilladores hexagonales Microtronic / Microtronic hexagonal screwdrivers                 |                                                                                   |
| 3            | 76651, 76652, 76653                     | Destornilladores varilla protegida Rotork / Rotork Insulated screwdrivers                     |                                                                                   |
| 2            | 76655, 76656                            | Destornilladores varilla protegida Phillips® Rotork / Rotork Phillips® insulated screwdrivers | 1000V                                                                             |
|              | 76659, 76660                            | Destornilladores varilla protegida Pozidriv® Rotork / Rotork Pozidriv® insulated screwdrivers |                                                                                   |
| 3            | 66928, 66929, 66930                     | Destornilladores punta esfera Rotork Phillips® / Rotork Phillips® ball tip screwdrivers       |                                                                                   |
|              | 66917, 66918, 66919                     | Destornilladores Torx® Rotork / Rotork Torx® screwdrivers                                     | -                                                                                 |
| 1            | 66070                                   | Destornillador buscapolos / Voltage tester screwdriver                                        |                                                                                   |
| 8            | 61499                                   | Juego llaves Allen / Allen keys wrenches Set                                                  | 1,5/2/2,5/3/4/5/5,5/6, hex.                                                       |
| 5            | 61870, 61871, 61872, 61873, 61874       | Llaves de pipa / Angled sockets                                                               | 6/7/8/9/10                                                                        |
| 4            | 61824, 61825, 61826, 61827              | Llaves de tubo doble boca / Socket double ended wrench                                        | 6.7/8-9/10-11/12-13                                                               |
| 1            | 62241                                   | Alicate mini universal Titacrom® Bimat / Titacrom® Bimat combination electronic pliers        |                                                                                   |
|              | 62242                                   | Alicate mini b/plana Titacrom® Bimat / Titacrom® Bimat flat nose electronic pliers            |                                                                                   |
|              | 62243                                   | Alicate mini b/redonda Titacrom® Bimat / Titacrom® Bimat round nose electronic pliers         |                                                                                   |
|              | 62244                                   | Alicate mini telefonista Titacrom® Bimat / Titacrom® Bimat long nose electronic pliers        |                                                                                   |
|              | 62245                                   | Alicate mini b/curva Titacrom® Bimat / Titacrom® Bimat bent nose electronic pliers            |                                                                                   |
|              | 62246                                   | Alicate mini b/aguja Titacrom® Bimat / Titacrom® Bimat long needle nose electronic pliers     |                                                                                   |
|              | 62247                                   | Alicate mini c/diagonal Titacrom® Bimat / Titacrom® Bimat diagonal cutting electronic pliers  |                                                                                   |
|              | 62249                                   | Alicate mini c/frontal Titacrom® Bimat / Titacrom® Bimat end cutter electronic pliers         |                                                                                   |
|              | 4                                       | 69529                                                                                         | Set 4 pinzas / Set 4 tweezers                                                     |
| 1            | 69501                                   | Cortadores / Cutters                                                                          |                                                                                   |
|              | 69601                                   | Martillo ebanista / Joiners hammer                                                            |                                                                                   |



■ 84 PCS.

■ MM



| COD.  | PCS. |  |  |
|-------|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 69391 | 84   | 51010                                                                             | 11                                                                                |

| PCS. | Composición / Composition / Composition                              | Descripción / Description / Description                                                       |                                             |    |
|------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------|----|
| 29   | 61958                                                                | Juego / Set                                                                                   | 1/4", 29 pcs                                |    |
| 8    | 69249                                                                | Juego de llaves fijas / Open end wrenches set                                                 | 6-7/8-9/10-11/12-13/14-15/16-17/18-19/20-22 |    |
| 10   | 61615, 61616, 61617, 61618, 61619, 61620, 61621, 61622, 61623, 61624 | Llaves Allen p/bola / Hexagonal key wrenches ball type                                        | 1,5/2/2,5/3/4/5/5,5/6/8/10, hex.            |    |
| 4    | 76651, 76652, 76653, 76654                                           | Destornilladores varilla protegida Rotork / Rotork Insulated screwdrivers                     | 1000V                                       |    |
|      | 76655, 76656, 76657, 76658                                           | Destornilladores varilla protegida Phillips® Rotork / Rotork Phillips® insulated screwdrivers |                                             |    |
|      | 76659, 76660, 76661, 76662                                           | Destornilladores varilla protegida Pozidriv® Rotork / Rotork Pozidriv® insulated screwdrivers |                                             |    |
|      | 66070                                                                | Destornillador buscapolos / Voltage tester screwdriver                                        |                                             | -  |
|      | 76552                                                                | Llave ajustable Titacrom® / Titacrom® Adjustable wrench                                       | 10", 1000V                                  |    |
| 1    | 76584                                                                | Alicate universal / Combination pliers                                                        | 1000V                                       |    |
|      | 76589                                                                | Alicate b/plana / Flat nose pliers                                                            |                                             |    |
|      | 76590                                                                | Alicate b/redonda / Round nose pliers                                                         |                                             |    |
|      | 76591                                                                | Alicate telefonista / Long nose plier                                                         |                                             |    |
|      | 76593                                                                | Alicate telefonista b/curva / Titacrom® bent nose pliers                                      |                                             |    |
|      | 76595                                                                | Alicate c/diagonal / Diagonal cutting pliers                                                  |                                             |    |
|      | 76603                                                                | Alicate pelacables / Wirestripper                                                             |                                             |    |
|      | 62445                                                                | Tenaza Pico Loro Bimat / Bimat groove joint                                                   |                                             | -  |
|      | 62178                                                                | Tenaza Grip / Grip plier                                                                      |                                             | 7" |
|      | 62151                                                                | Tenaza cortacables / Cable cutters                                                            |                                             | -  |
|      | 69501                                                                | Cortadores / Cutters                                                                          | -                                           |    |
|      | 63748                                                                | Arco de sierra / Hack saw                                                                     | -                                           |    |
| 10   | 64435                                                                | Hojas de sierra acero al carbono / Carbon steel hacksaw blade                                 | 24 dientes / 24 teeth                       |    |
| 1    | 69603                                                                | Martillo ebanista / Joiners hammer                                                            | -                                           |    |



## ■ 52 PCS.

## ■ MM

| COD.         | PCS. |  | Medidas en / Sizes in /<br>Mesures en |  |
|--------------|------|-----------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------|
| <b>76686</b> |      | -                                                                                 |                                       | 6,0                                                                               |
| <b>76687</b> | 52   | 51011                                                                             | mm                                    | 31                                                                                |



  

| PCS. | Composición / Composition / Composition                | Descripción / Description / Description                                                                |       |
|------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------|
| 8    | 76584, 76590, 76592, 76591, 76593, 76594, 76595, 76603 | Alicates / Pliers                                                                                      |       |
| 1    | 73008                                                  | Tenaza cortacables / Cable cutters                                                                     |       |
| 2    | 73040, 73041                                           | Pinzas / Tweezers                                                                                      |       |
|      | 73035, 73036                                           | Cuchillos / Knives                                                                                     |       |
|      | 73011                                                  | Cortacables de carraca / Ratchet electrician cable cutter                                              | 1000V |
| 1    | 73005                                                  | Tenazas de canal / Box joint pincers                                                                   |       |
|      | 76552                                                  | Llave ajustable / Adjustable wrench                                                                    |       |
| 8    | 73064, 73065, 73066, 73067, 73068, 73071, 73073, 73076 | Llaves fijas una boca / Single ended open jaw spanner                                                  |       |
|      | 69534                                                  | Tijera electricista / Electrician's scissors                                                           |       |
| 1    | 62494                                                  | Alicate para terminales / Terminals plier                                                              | -     |
|      | 51257                                                  | Tester voltaje / Voltage Tester                                                                        |       |
| 6    | 76621, 76622, 76624, 76625, 76626, 76627               | Destornilladores electricistas / Electrician screwdrivers                                              | 1000V |
| 5    | 76628, 76629, 76630, 76631, 76632                      | Destornilladores Phillips® / Phillips® screwdrivers                                                    |       |
|      | 63254                                                  | Soldador de estaño / Tin soldering iron                                                                |       |
| 1    | 63256                                                  | Succionador con boquilla antiestática para soldadura / Desoldering pump with anti-static rubber nozzle | -     |
|      | 65587                                                  | Espejo articulado / Joint telescopic mirror                                                            |       |
| 6    | 73232, 73233, 73234, 73236, 73238, 73239               | Vasos / Sockets                                                                                        |       |
| 1    | 73245                                                  | Alargadera / Extension                                                                                 | 1000V |
|      | 73687                                                  | Carraca / Ratchet                                                                                      |       |
| 3    | 73251, 73252, 73253                                    | Boquillas hexagonales / Hexagonal sockets                                                              |       |



## ■ 37 PCS.

## ■ MM



| COD.         | PCS. |  | Medidas en / Sizes in /<br>Mesures en |  |
|--------------|------|-------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------|
| <b>79066</b> | 37   | 51054                                                                               | mm                                    | 9,0                                                                                 |

| PCS. | Composición / Composition / Composition                       | Descripción / Description / Description                   |              |
|------|---------------------------------------------------------------|-----------------------------------------------------------|--------------|
| 4    | 76583, 76603, 76592, 76599                                    | Alicates / Pliers                                         |              |
| 1    | 73008                                                         | Cortacables / Cable cutters                               |              |
| 6    | 73064, 73067, 73068, 73071, 73073, 73076                      | Llaves fijas una boca / Single ended open jaw spanner     | 1000V        |
|      | 73122, 73125, 73126, 73129, 73131, 73134                      | Llaves de estrella / Ring wrenches                        |              |
| 1    | 73683                                                         | Carraca / Ratchet                                         |              |
| 2    | 73446, 73445                                                  | Alargadera / Extension                                    | 3/8" - 1000V |
| 1    | 73448                                                         | Mango en T / T Handle                                     | 1000V        |
| 9    | 74962, 74963, 74964, 74965, 74966, 74969, 74971, 74974, 74976 | Vasos / Sockets                                           | 1/2" - 1000V |
| 2    | 73035, 73036                                                  | Cuchillos / Knives                                        |              |
| 1    | 73040                                                         | Pinza de plástico / Plastic tweezers                      | 1000V        |
| 4    | 76621, 76622, 76623, 76625                                    | Destornilladores electricistas / Electrician screwdrivers |              |







| COD.         | PCS.                                     |                       | Medidas en / Sizes in / Mesures en |  |
|--------------|------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------|
| <b>76688</b> | 37                                       | -                                                                                                      | mm                                 | 3,0                                                                               |
| <b>76689</b> |                                          | 51010                                                                                                  |                                    | 7,0                                                                               |
| PCS.         | Composición / Composition / Composition  | Descripción / Description / Description                                                                |                                    |                                                                                   |
| 5            | 76584, 76591, 76593, 76595, 76603        | Alicates / Pliers                                                                                      |                                    |                                                                                   |
|              | 73008                                    | Tenaza cortacables / Cable cutters                                                                     |                                    |                                                                                   |
| 1            | 73040                                    | Pinzas / Tweezers                                                                                      |                                    |                                                                                   |
|              | 73035                                    | Cuchillos / Knives                                                                                     |                                    | 1000V                                                                             |
|              | 73005                                    | Tenazas de canal / Box joint pincers                                                                   |                                    |                                                                                   |
| 5            | 73064, 73065, 73067, 73068, 73070        | Llaves fijas una boca / Single ended open jaw spanner                                                  |                                    |                                                                                   |
| 1            | 69534                                    | Tijera electricista / Electrician's scissors                                                           |                                    | -                                                                                 |
|              | 51257                                    | Tester voltaje / Voltage Tester                                                                        |                                    |                                                                                   |
| 5            | 76621, 76622, 76624, 76625, 76626        | Destornilladores electricistas / Electrician screwdrivers                                              |                                    | 1000V                                                                             |
| 3            | 76629, 76630, 76631                      | Destornilladores Phillips® / Phillips® screwdrivers                                                    |                                    |                                                                                   |
|              | 63254                                    | Soldador de estaño / Tin soldering iron                                                                |                                    |                                                                                   |
| 1            | 63256                                    | Succionador con boquilla antiestática para soldadura / Desoldering pump with anti-static rubber nozzle |                                    | -                                                                                 |
| 6            | 73232, 73233, 73234, 73236, 73238, 73239 | Vasos / Sockets                                                                                        |                                    |                                                                                   |
| 1            | 73245                                    | Alargadera / Extension                                                                                 |                                    | 1000V                                                                             |
|              | 73246                                    | Carraca / Ratchet                                                                                      |                                    |                                                                                   |



### 27 PCS.



#### INCH

| COD.         | PCS.                                                   |  | Medidas en / Sizes in / Mesures en |  |
|--------------|--------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------|
| <b>79065</b> | 27                                                     | 51054                                                                               | inch                               | 8,0                                                                                 |
| PCS.         | Composición / Composition / Composition                | Descripción / Description / Description                                             |                                    |                                                                                     |
| 3            | 76583, 76597, 76592                                    | Alicates / Pliers                                                                   |                                    |                                                                                     |
|              | 76621, 76623, 76625                                    | Destornilladores electricistas / Electrician screwdrivers                           |                                    | 1000V                                                                               |
| 2            | 76629, 76630                                           | Destornilladores Phillips® / Phillips® screwdrivers                                 |                                    |                                                                                     |
| 1            | 73685                                                  | Carraca / Ratchet                                                                   |                                    | -                                                                                   |
| 2            | 73280, 73281                                           | Alargadera / Extension                                                              |                                    |                                                                                     |
| 8            | 75162, 75163, 75164, 75165, 75167, 75168, 75169, 75170 | Vasos / Sockets                                                                     |                                    | 3/8" - 1000V                                                                        |
|              | 73349, 73350, 73351, 73352, 73353, 73354, 73355, 73356 | Llaves de estrella acodada una boca / Offset ring wrenches                          |                                    | 1000V                                                                               |



### 26 PCS.



#### MM

| COD.         | PCS.                                            |  | Medidas en / Sizes in / Mesures en |  |
|--------------|-------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------|
| <b>79064</b> | 26                                              | 51033                                                                               | mm                                 | 5,0                                                                                 |
| PCS.         | Composición / Composition / Composition         | Descripción / Description / Description                                             |                                    |                                                                                     |
| 7            | 76583, 76603, 76592, 76594, 76595, 76590, 76589 | Alicates / Pliers                                                                   |                                    |                                                                                     |
| 2            | 73156, 73158                                    | Llaves hexagonales / Hexagonal keys                                                 |                                    |                                                                                     |
| 5            | 76621, 76622, 76623, 76625, 76626               | Destornilladores electricistas / Electrician screwdrivers                           |                                    |                                                                                     |
| 2            | 76629, 76630                                    | Destornilladores Phillips® / Phillips® screwdrivers                                 |                                    | 1000V                                                                               |
|              | 76634, 76635                                    | Destornilladores Pozidriv® / Pozidriv® screwdrivers                                 |                                    |                                                                                     |
| 4            | 74700, 74701, 74702, 74703                      | Destornilladores de vaso / Socket screwdrivers                                      |                                    |                                                                                     |
| 2            | 73035, 73036                                    | Cuchillos / Knives                                                                  |                                    |                                                                                     |
|              | 73008                                           | Cortacables / Cable cutters                                                         |                                    |                                                                                     |
| 1            | 66073                                           | Buscapolos / Voltage tester                                                         |                                    | -                                                                                   |



## ■ 20 PCS.



## ■ MM

| COD.         | PCS.  |  |  |                |
|--------------|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------|
| <b>69536</b> | 20    | 51013                                                                             | 4,0                                                                               |                |
| PCS.         | COD.  | PCS.                                                                              | Descripción / Description / Description                                           |                |
|              | 76609 |                                                                                   | Alicates universales Mastercut / Mastercut combination pliers                     | 1000V, 210 mm  |
|              | 76595 |                                                                                   | Alicate corte diagonal / Diagonal cutting plier                                   |                |
|              | 76591 |                                                                                   | Alicates telefonista recto / Long nose pliers                                     | 1000V, 160 mm  |
|              | 76603 |                                                                                   | Alicate pelacables / Wirestripper                                                 |                |
|              | 62494 |                                                                                   | Alicate para terminales / Terminals plier                                         | 220 mm         |
|              | 76622 |                                                                                   | Destornillador electricista / Electrician screwdriver                             | 1000V, 4x125   |
|              | 76625 |                                                                                   | Destornillador Phillips® / Phillips® screwdriver                                  | 1000V, 6,5x150 |
|              | 76629 |                                                                                   | Destornillador Phillips® / Phillips® screwdriver                                  | 1000V, PH1     |
|              | 76630 |                                                                                   | Destornillador Phillips® / Phillips® screwdriver                                  | 1000V, PH2     |
| 1            | 66422 |                                                                                   | Destornillador electricista / Electrician screwdriver                             | 3 x 100        |
|              | 66423 |                                                                                   | Destornillador electricista / Electrician screwdriver                             | 4 x 125        |
|              | 66425 |                                                                                   | Destornillador electricista / Electrician screwdriver                             | 5,5 x 150      |
|              | 66426 |                                                                                   | Destornillador electricista / Electrician screwdriver                             | 6,5 x 150      |
|              | 66427 |                                                                                   | Destornillador electricista / Electrician screwdriver                             | 8 x 175        |
|              | 66073 |                                                                                   | Buscapolos / Voltage tester                                                       | -              |
|              | 73035 |                                                                                   | Cuchillo / Knife                                                                  | 1000V          |
|              | 69662 |                                                                                   | Maceta modelo español / Spanish type stoning hammer                               | 1000 g         |
|              | 69534 |                                                                                   | Tijera electricista / Electrician's scissors                                      | 145 mm         |
|              | 65167 |                                                                                   | Flexómetro robust magnet / Robust Magnet Measuring tape                           | 5 x 25         |
|              | 63748 |                                                                                   | Arco de sierra / Hack Saw                                                         | -              |



## ■ 17 PCS.



## ■ MM

| COD.         | PCS.                                     |  | Medidas en / Sizes in / Mesures en |  |
|--------------|------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------|
| <b>79063</b> | 17                                       | 51033                                                                               | mm                                 | 3,6                                                                                 |
| PCS.         | Composición / Composition / Composition  | Descripción / Description / Description                                             |                                    |                                                                                     |
| 6            | 76584, 76599, 76592, 76603, 76589, 76590 | Alicates / Pliers                                                                   | 1000V                              |                                                                                     |
| 1            | 66073                                    | Buscapolos / Voltage tester                                                         | -                                  |                                                                                     |
| 6            | 76620, 76621, 76623, 76625, 76626, 76627 | Destornilladores electricistas / Electrician screwdrivers                           |                                    |                                                                                     |
| 2            | 76629, 76630                             | Destornilladores Phillips® / Phillips® screwdrivers                                 | 1000V                              |                                                                                     |
|              | 73035, 73036                             | Cuchillos / Knives                                                                  |                                    |                                                                                     |



## ■ 16 PCS.



## ■ MM

| COD.         | PCS.                                    |  | Medidas en / Sizes in / Mesures en |  |
|--------------|-----------------------------------------|-------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------|
| <b>76690</b> |                                         | -                                                                                   |                                    | 2,0                                                                                 |
| <b>76691</b> | 16                                      | 51013                                                                               | mm                                 | 4,0                                                                                 |
| PCS.         | Composición / Composition / Composition | Descripción / Description / Description                                             |                                    |                                                                                     |
| 3            | 76584, 76591, 76595                     | Alicates / Pliers                                                                   |                                    |                                                                                     |
| 1            | 73040                                   | Pinzas / Tweezers                                                                   | 1000V                              |                                                                                     |
|              | 73035                                   | Cuchillos / Knives                                                                  |                                    |                                                                                     |
| 3            | 73064, 73067, 73070                     | Llaves fijas una boca / Single ended open jaw spanner                               |                                    |                                                                                     |
| 1            | 69534                                   | Tijera electricista / Electrician's scissors                                        | -                                  |                                                                                     |
|              | 66071                                   | Buscapolos / Voltage tester                                                         |                                    |                                                                                     |
| 4            | 76621, 76622, 76625, 76626              | Destornilladores electricistas / Electrician screwdrivers                           | 1000V                              |                                                                                     |
| 2            | 76629, 76630                            | Destornilladores Phillips® / Phillips® screwdrivers                                 |                                    |                                                                                     |




## ■ 10 PCS.

## ■ MM

| COD.         | PCS.                                    |  | Medidas en / Sizes in / Mesures en                        |  |
|--------------|-----------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>79061</b> | 10                                      | 51033                                                                             | mm                                                        | 3,0                                                                               |
| PCS.         | Composición / Composition / Composition |                                                                                   | Descripción / Description / Description                   |                                                                                   |
| 4            | 76583, 76594, 76603, 76595              |                                                                                   | Alicates / Pliers                                         |                                                                                   |
| 3            | 76621, 76623, 76626                     |                                                                                   | Destornilladores electricistas / Electrician screwdrivers |                                                                                   |
| 2            | 76634, 76635                            |                                                                                   | Destornilladores Pozidriv® / Pozidriv® screwdrivers       |                                                                                   |
| 1            | 73004                                   |                                                                                   | Tenaza de canal / Box joint                               |                                                                                   |





| COD.         | PCS.                                    |  | Medidas en / Sizes in / Mesures en                        |  |
|--------------|-----------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>79062</b> | 10                                      | 51033                                                                             | mm                                                        | 2,5                                                                               |
| PCS.         | Composición / Composition / Composition |                                                                                   | Descripción / Description / Description                   |                                                                                   |
| 4            | 76583, 76603, 76590, 76599              |                                                                                   | Alicates / Pliers                                         |                                                                                   |
| 1            | 66073                                   |                                                                                   | Buscapolos / Voltage tester                               |                                                                                   |
| 4            | 76621, 76622, 76623, 76625              |                                                                                   | Destornilladores electricistas / Electrician screwdrivers |                                                                                   |
| 1            | 76629                                   |                                                                                   | Destornilladores Phillips® / Phillips® screwdrivers       |                                                                                   |



## ■ 5 PCS.

## ■ MM



| COD.         | PCS.                                    |  | Medidas en / Sizes in / Mesures en      |  |
|--------------|-----------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------|
| <b>79060</b> | 5                                       | 51033                                                                               | mm                                      | 1,2                                                                                 |
| PCS.         | Composición / Composition / Composition |                                                                                     | Descripción / Description / Description |                                                                                     |
| 4            | 76583, 76594, 76603, 76595              |                                                                                     | Alicates / Pliers                       |                                                                                     |
| 1            | 73004                                   |                                                                                     | Tenaza de canal / Box joint             |                                                                                     |



# EGAMaster

## ART IN INNOVATION



**ELECTROMECÁNICA / ELECTROMECHANICAL KIT / KIT ELECTROMÉCANIQUE / WERKZEUGSET FÜR ELEKTROMECHANIK / ELETTROMECCANICA / ELECTROMECÂNICA / ЭЛЕКТРОМЕХАНИЧЕСКИЙ НАБОР**
**102 PCS.**
**MM**

| COD.         | PCS.                                    |                |  |
|--------------|-----------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>69392</b> | 102                                     | 51010                                                                                           | 10                                                                                |
| PCS.         | Composición / Composition / Composition | Descripción / Description / Description                                                         |                                                                                   |
| 29           | 61958                                   | Juego / Set                                                                                     | 1/4", 29 pcs                                                                      |
| 10           | 69277                                   | Juego llaves combinadas / Combination wrenches set                                              | 10 pcs                                                                            |
| 1            | 61908                                   | Llave ajustable Unique Plus Titacrom® Comfort / Unique Plus Titacrom® Comfort adjustable wrench | 10"                                                                               |
| 4            | 76651, 76652, 76653, 76654              | Destornilladores varilla protegida Rotork / Rotork Insulated screwdrivers                       |                                                                                   |
|              | 76655, 76656, 76657                     | Destornilladores varilla protegida Phillips® Rotork / Rotork Phillips® insulated screwdrivers   |                                                                                   |
| 3            | 76659, 76660, 76661                     | Destornilladores varilla protegida Pozidriv® Rotork / Rotork Pozidriv® insulated screwdrivers   |                                                                                   |
|              | 66928, 66929, 66930, 66931, 66932       | Destornilladores punta esfera Rotork / Rotork ball tip screwdrivers                             |                                                                                   |
| 5            | 66917, 66918, 66919, 66920, 66921       | Destornilladores Torx® Rotork / Rotork Torx® screwdrivers                                       |                                                                                   |
| 2            | 66934, 66935                            | Destornilladores Robertson Rotork / Rotork Robertson screwdrivers                               |                                                                                   |
| 1            | 66071                                   | Destornillador buscapolos / Voltage tester screwdriver                                          |                                                                                   |
| 5            | 61824, 61825, 61826, 61827, 61828       | Llaves de tubo doble boca / Socket double ended wrenches                                        | 6-7/8-9/10-11/12-13/14-15                                                         |
| 8            | 61499                                   | Juego llaves Allen / Allen keys wrenches Set                                                    | 1,5/2/2,5/3/4/5/5,5/6, hex.                                                       |
|              | 62177                                   | Tenaza Grip curva / Curved Grip pliers                                                          |                                                                                   |
|              | 62331                                   | Alicate universal Titacrom® Bimat / Titacrom® Bimat combination pliers                          |                                                                                   |
|              | 62337                                   | Alicate b/plana Titacrom® Bimat / Titacrom® Bimat flat nose pliers                              |                                                                                   |
|              | 62339                                   | Alicate telefonista Titacrom® Bimat / Titacrom® Bimat long nose pliers                          |                                                                                   |
|              | 62341                                   | Alicate telefonista b/curva Titacrom® Bimat / Titacrom® Bimat bent nose pliers                  |                                                                                   |
|              | 62343                                   | Alicate corte diagonal Titacrom® Bimat / Titacrom® Bimat diagonal cutting pliers                |                                                                                   |
|              | 62349                                   | Alicate pelacables Titacrom® Bimat / Titacrom® Bimat wirestripper                               |                                                                                   |
| 1            | 62445                                   | Tenaza Pico Loro Bimat / Bimat groove joint                                                     |                                                                                   |
|              | 62214                                   | Alicate Circlips exterior recto / External straight Circlips pliers                             |                                                                                   |
|              | 62218                                   | Alicate Circlips exterior curvo / External bent Circlips pliers                                 |                                                                                   |
|              | 62222                                   | Alicate Circlips interior recto / Internal straight Circlips pliers                             |                                                                                   |
|              | 62226                                   | Alicate Circlips interior curvo / Internal bent Circlips pliers                                 |                                                                                   |
|              | 69603                                   | Martillo ebanista / Joiners hammer                                                              |                                                                                   |
|              | 69531                                   | Pinza / Tweezers                                                                                | 45°                                                                               |
|              | 69533                                   | Pinza b/plana / Flat nose tweezers                                                              |                                                                                   |
|              | 69532                                   | Pinza autoapretante / Self adjusting tweezers                                                   | -                                                                                 |
| 8            | 69433                                   | Juego / Set                                                                                     | 8 pcs                                                                             |
| 1            | 69504                                   | Magnetizador / Magnetizer                                                                       | -                                                                                 |
|              | 69501                                   | Cortadores / Cutters                                                                            |                                                                                   |



■ 87 PCS.



■ MM

| COD.  | PCS.                                                          |              |  |
|-------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 69394 | 87                                                            | 51010                                                                                         | 9,5                                                                               |
| PCS.  | Composición / Composition / Composition                       | Descripción / Description / Description                                                       |                                                                                   |
| 29    | 61958                                                         | Juego / Set                                                                                   | 1/4", 29 pcs                                                                      |
| 8     | 69249                                                         | Juego de llaves fijas / Open end wrenches set                                                 | 8 pcs                                                                             |
| 9     | 61870, 61871, 61872, 61873, 61874, 61875, 61876, 61877, 61878 | Llaves de pipa / Angled sockets                                                               | 6/7/8/9/10/11/12/13/14                                                            |
| 8     | 61499                                                         | Juego llaves Allen / Allen keys wrenches Set                                                  | 1,5/2/2,5/3/4/5/5,5/6 hex.                                                        |
| 1     | 61111                                                         | Llave ajustable Unique Titacrom® / Unique Titacrom® adjustable wrench                         | 8"                                                                                |
|       | 76651, 76652, 76653                                           | Destornilladores varilla protegida Rotork / Rotork Insulated screwdrivers                     |                                                                                   |
|       | 76655, 76656, 76657                                           | Destornilladores varilla protegida Phillips® Rotork / Rotork Phillips® insulated screwdrivers |                                                                                   |
| 3     | 76659, 76660, 76661                                           | Destornilladores varilla protegida Pozidriv® Rotork / Rotork Pozidriv® insulated screwdrivers |                                                                                   |
|       | 66917, 66918, 66919                                           | Destornilladores Torx® Rotork / Rotork Torx® screwdrivers                                     |                                                                                   |
|       | 66928, 66929, 66930                                           | Destornilladores punta esfera Rotork / Rotork ball tip screwdrivers                           |                                                                                   |
|       | 66070                                                         | Destornillador buscapolos / Voltage tester screwdriver                                        |                                                                                   |
|       | 62331                                                         | Alicate universal Titacrom® Bimat / Titacrom® Bimat combination pliers                        |                                                                                   |
|       | 62337                                                         | Alicate b/plana Titacrom® Bimat / Titacrom® Bimat flat nose pliers                            |                                                                                   |
|       | 62338                                                         | Alicate b/redonda Titacrom® Bimat / Titacrom® Bimat round nose pliers                         |                                                                                   |
|       | 62341                                                         | Alicate telefonista b/curva Titacrom® Bimat / Titacrom® Bimat bent nose pliers                |                                                                                   |
|       | 62343                                                         | Alicate c/diagonal Titacrom® Bimat / Titacrom® Bimat cutting pliers                           |                                                                                   |
|       | 62349                                                         | Alicate pelacables Bimat / Bimat wirestripper pliers                                          |                                                                                   |
| 1     | 62445                                                         | Tenaza Pico Loro Bimat / Bimat groove joint                                                   |                                                                                   |
|       | 62177                                                         | Tenaza Grip curva / Curved Grip pliers                                                        |                                                                                   |
|       | 69531                                                         | Pinza / Tweezers                                                                              | 45°                                                                               |
|       | 69530                                                         | Pinza b/fina / Neat tips tweezer                                                              |                                                                                   |
|       | 62242                                                         | Alicate mini b/plana Titacrom® Bimat / Titacrom® Bimat flat nose electronic pliers            |                                                                                   |
|       | 62247                                                         | Alicate mini c/diagonal Titacrom® Bimat / Titacrom® Bimat diagonal cutting wlectronic pliers  |                                                                                   |
|       | 62246                                                         | Alicate mini b/aguja Titacrom® Bimat / Titacrom Bimat long needle nose electronic pliers      |                                                                                   |
|       | 63097                                                         | Cortatubos mini / Tube Cutter                                                                 | 22 mm                                                                             |
|       | 69501                                                         | Cortadores / Cutters                                                                          |                                                                                   |
|       | 69601                                                         | Martillo ebanista / Joiners hammer                                                            |                                                                                   |



**MANTENIMIENTO DE EDIFICIOS / BUILDING MAINTENANCE / KIT POUR L'ENTRETIEN DE BÂTIMENT / WERKZEUGSATZ FÜR GEBÄUDEWARTUNG / EDILIZIA INDUSTRIALE / MANUTENÇÃO DE EDIFÍCIOS / НАБОР ДЛЯ ОБСЛУЖИВАНИЯ ЗДАНИЙ**
 227 PCS.



 MM/INCH


| COD.  | PCS. |  | Medidas en / Sizes in / Mesures en |  |  |
|-------|------|-------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 59155 |      | -                                                                                   |                                    | -                                                                                     | 26                                                                                    |
| 59156 | 227  | 51075                                                                               | mm/inch                            |                                                                                       | 75                                                                                    |
| 59157 |      |                                                                                     |                                    | ●                                                                                     |                                                                                       |

| PCS. | Composición / Composition / Composition                                            | Descripción / Description / Description                              |      |
|------|------------------------------------------------------------------------------------|----------------------------------------------------------------------|------|
| 4    | 62332, 62337, 62340, 62343                                                         | Alicates / Pliers                                                    |      |
| 1    | 63748                                                                              | Arcos de sierra / Hack saws                                          | -    |
|      | 61570                                                                              | Cepillos / Brushes                                                   |      |
|      | 67190, 67191                                                                       | Destornilladores carroceros / Stubby screwdrivers                    |      |
| 2    | 66887, 66888                                                                       | Destornilladores electricista / Electrician screwdrivers             | mm   |
|      | 66877, 66879                                                                       | Destornilladores mecánicos / Slotted screwdrivers                    |      |
|      | 66897, 66898                                                                       | Destornilladores Phillips® / Phillips® screwdrivers                  |      |
| 1    | 66731                                                                              | Destornilladores portapuntas / Bitholder screwdrivers                |      |
| 2    | 66908, 66909                                                                       | Destornilladores Pozidriv® / Pozidriv® screwdrivers                  |      |
| 7    | 66921, 66922, 66923, 66924, 66925, 66926, 66927                                    | Destornilladores Torx® / Screwdrivers Torx®                          |      |
| 1    | 65586                                                                              | Espejo articulado / Joint telescopic mirror                          |      |
|      | 65172                                                                              | Flexómetros / Measuring tapes                                        |      |
| 2    | 65552, 65560                                                                       | Galgas / Gauges                                                      |      |
| 10   | 61516                                                                              | Juego llaves hexagonales / Set hexagonal key wrenches                | inch |
|      | 61495                                                                              | Juego llaves hexagonales bola / Set hexagonal key wrenches ball type |      |
| 4    | 69529                                                                              | Juego pinzas / Set tweezers                                          | -    |
| 10   | 66948                                                                              | Juego puntas / Bits set                                              |      |
| 35   | 55603                                                                              | Juego vasos / Socket set                                             | 1/2" |
| 42   | 61792                                                                              | Juego vasos spline / Spline socket set                               | 3/8" |
| 29   | 55667                                                                              | Juego vasos spline / Spline socket set                               | 1/4" |
| 11   | 63537, 63573, 63609, 63645, 63681, 63714, 63715, 63716, 63717, 63718, 63719        | Limas / Files                                                        |      |
| 1    | 58641                                                                              | Linternas / Flashlights                                              | -    |
|      | 61113                                                                              | Llaves ajustables / Adjustable wrenches                              |      |
| 12   | 60341, 60342, 60343, 60344, 60345, 60347, 60348, 60349, 60351, 60352, 60353, 60354 | Llaves combinadas / Combination wrenches                             | inch |
| 10   | 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61736, 61738, 61741               | Llaves de carraca reversible / Reversible ratchet handles            | mm   |
| 1    | 62603                                                                              | Llaves de vaso / Socket wrenches                                     | 1/4" |
| 11   | 60420, 60421, 60422, 60423, 60424, 60425, 60426, 60427, 60428, 60429, 60430        | Llaves para racores / Flare nut spanners                             |      |
| 6    | 60785, 60788, 60789, 60790, 60792, 60793                                           | Martillos / Hammers                                                  |      |
| 2    | 55325, 69613                                                                       | Recogedor telescópico / Telescopic joint pick up                     | -    |
| 1    | 65589                                                                              | Tenazas / Pincers                                                    |      |
| 2    | 62172, 62446                                                                       | Tijeras / Tin snips                                                  |      |
| 1    | 62170                                                                              | Tijeras / Tin snips                                                  |      |


■ 73 PCS.

■ MM

| COD.  | PCS.                                                   |                |  |
|-------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 69395 | 73                                                     | 51012                                                                                           | 20                                                                                |
| PCS.  | Composición / Composition / Composition                | Descripción / Description / Description                                                         |                                                                                   |
| 8     | 69249                                                  | Juego de llaves fijas / Open end wrenches set                                                   | 8 pcs                                                                             |
| 1     | 61113                                                  | Llave ajustable Unique Plus Titacrom® / Unique Plus Titacrom® Adjustable wrench                 | 1/2"                                                                              |
| 8     | 61824, 61825, 61826, 61827, 61828, 61829, 61830, 61831 | Llaves de tubo doble boca / Socket double ended wrenches                                        | -                                                                                 |
| 10    | 61500                                                  | Juego llaves Allen / Allen keys wrenches Set                                                    | 1,5/2/2,5/3/4/5/5,5/6/8/10, hex.                                                  |
|       | 62332                                                  | Alicata universal Titacrom® Bimat / Titacrom® Bimat combination pliers                          |                                                                                   |
|       | 62344                                                  | Alicata cortaalambres Titacrom® Bimat Heavy Duty / Titacrom® Bimat, Heavy Duty cutting knippers |                                                                                   |
|       | 62297                                                  | Tenaza canal Bimat / Bimat box joint pliers                                                     |                                                                                   |
| 1     | 62172                                                  | Tenaza Grip curva / Curved Grip pliers                                                          |                                                                                   |
|       | 62349                                                  | Alicata pelacables Titacrom® Bimat / Titacrom® Bimat wirestripper                               |                                                                                   |
|       | 62124                                                  | Tenaza rusa Titacrom® / Titacrom® Tower pincer                                                  |                                                                                   |
|       | 61005                                                  | Llave Stillson / Stillson pipe wrench                                                           | 18"                                                                               |
|       | 63748                                                  | Arco de Sierra / Hack Saw                                                                       | -                                                                                 |
| 10    | 64435                                                  | Hojas de sierra acero al carbono / Carbon steel hacksaw blade                                   | 24 dientes / 24 teeth                                                             |
|       | 62159                                                  | Tijera cortachapa / Tin Snip                                                                    |                                                                                   |
|       | 69501                                                  | Cortadores / Cutters                                                                            |                                                                                   |
|       | 62151                                                  | Tenaza cortables / Cable cutters                                                                |                                                                                   |
| 1     | 69614                                                  | Martillo de bola / Ball pein hammer                                                             |                                                                                   |
|       | 69608                                                  | Martillo uña mod. americano / Mod. americano claw hammer                                        |                                                                                   |
|       | 55326                                                  | Martillo de nylon / Nylon hammer                                                                |                                                                                   |
|       | 69520                                                  | Maceta goma / Rubber hammer                                                                     |                                                                                   |
| 5     | 66875, 66877, 66879, 66881, 66882                      | Destornilladores mecánico Rotork / Rotork slotted screwdrivers                                  |                                                                                   |
|       | 66908, 66909                                           | Destornilladores Pozidriv® Rotork / Pozidriv® Rotork screwdrivers                               |                                                                                   |
|       | 76652, 76653                                           | Destornilladores varilla protegida Rotork / Rotork Insulated screwdrivers                       |                                                                                   |
| 2     | 76656, 76657                                           | Destornilladores varilla protegida Phillips® Rotork / Rotork Phillips® insulated screwdrivers   |                                                                                   |
|       | 66921, 66923                                           | Destornilladores Torx® Rotork / Rotork Torx® screwdrivers                                       |                                                                                   |
| 1     | 66071                                                  | Destornillador buscapolos / Voltage tester screwdriver                                          |                                                                                   |
|       | 63000                                                  | Carraca / Ratchet                                                                               |                                                                                   |
| 2     | 63003, 63004                                           | Cabezas / Heads                                                                                 |                                                                                   |
|       | 69506                                                  | Desatascador de muelle / Spring pipe cleaner                                                    |                                                                                   |
| 1     | 68058                                                  | Kit reparador de grifos / Valve reseater                                                        |                                                                                   |
|       | 67019                                                  | Paleta mod. Madrid / Madrid mod. bricklayer                                                     |                                                                                   |
|       | 67021                                                  | Espátula / Scraper                                                                              |                                                                                   |



**JUEGOS PROFESIONALES DE MECÁNICA / PROFESSIONAL SETS FOR MECHANICS / SETS DE MÉCANICIENS PROFESSIONNELS / PROFESSIONAL WERKZEUGSETS FÜR MECHANIKER / SET PROFESSIONALI DI MECCANICA / JOGOS PROFISSIONAL DE MECÂNICA / НАБОР МЕХАНИКА**
**BASIC 39 PCS.**


| COD.         | PCS. | Utilizado en / Used in / Utilisé dans             |  | Medidas en / Sizes in / Mesures en |  |
|--------------|------|---------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------|
| <b>51550</b> | 39   | Sur de Europa / Southern Europe / Le Sud d'Europe | 50994                                                                             | mm                                 | 6,0                                                                                 |

**Composición / Composition / Composition**


65172, 69622, 61496, 66440, 66439, 66405, 66402, 66401, 62135, 61908, 61438, 66732, 61435, 61443, 61321, 61320, 61319, 61318, 61317, 61316, 61315, 61314, 61313, 63975, 61312, 63974, 61311, 62606, 62343, 62332

| COD.         | PCS. | Utilizado en / Used in / Utilisé dans |  | Medidas en / Sizes in / Mesures en |  |
|--------------|------|---------------------------------------|-------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|
| <b>51553</b> | 39   | América / America / L'Amérique        | 50994                                                                               | inch                               | 6,0                                                                                   |

**Composición / Composition / Composition**

60423, 65363, 69622, 61495, 66440, 66439, 55335, 55333, 55331, 62106, 61908, 62603, 60422, 60421, 60420, 66732, 61444, 61443, 61442, 61438, 61435, 60430, 60429, 60428, 60427, 60426, 60425, 60424, 62343, 62332

**ADVANCED 72 PCS.**


| COD.         | PCS. | Utilizado en / Used in / Utilisé dans             |  | Medidas en / Sizes in / Mesures en |  |
|--------------|------|---------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|
| <b>51551</b> | 72   | Sur de Europa / Southern Europe / Le Sud d'Europe | 50995                                                                               | mm                                 | 18                                                                                    |

**Composición / Composition / Composition**

55326, 63681, 63645, 63609, 63573, 63537, 65158, 65172, 69622, 61496, 66053, 66052, 61741, 61738, 61736, 61733, 61732, 61731, 61730, 61729, 61728, 61727, 66442, 66441, 66440, 66439, 66408, 66407, 66405, 66402, 66401, 62135, 63915, 63399, 63398, 63397, 63396, 63395, 63394, 61908, 61437, 61458, 61455, 61816, 61815, 61814, 61813, 61811, 61810, 61809, 61808, 61807, 61806, 61805, 61804, 61803, 61802, 61801, 61800, 62606, 62343, 62339, 62332

| COD.         | PCS. | Utilizado en / Used in / Utilisé dans |  | Medidas en / Sizes in / Mesures en |  |
|--------------|------|---------------------------------------|-------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|
| <b>51554</b> | 72   | América / America / L'Amérique        | 50995                                                                               | inch                               | 18                                                                                    |

**Composición / Composition / Composition**

55326, 63681, 63645, 63609, 63573, 63537, 65158, 65363, 69622, 61495, 66053, 66052, 60354, 60352, 60351, 60349, 60348, 60347, 60345, 60344, 60343, 60342, 66442, 66441, 66440, 66439, 55338, 55337, 55335, 55333, 55331, 62106, 63915, 63399, 63398, 63397, 63396, 63395, 63394, 61908, 61437, 61458, 61455, 60474, 60473, 60472, 60471, 60470, 60469, 60468, 60467, 60459, 60466, 60465, 60464, 60463, 60462, 60461, 60460, 62606, 62343, 62339, 62332



■ MASTER 102-103 PCS.



| COD.         | PCS. | Utilizado en / Used in / Utilisé dans             |  |  | Medidas en / Sizes in / Mesures en |  |
|--------------|------|---------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------|
| <b>51552</b> | 103  | Sur de Europa / Southern Europe / Le Sud d'Europe | 50995, 50994                                                                      | 50986                                                                              | mm                                 | 25                                                                                  |

Composición / Composition / Composition

55326, 63396, 63299, 76732, 76654, 76652, 63573, 62848, 62847, 63436, 63416, 62871, 63681, 63645, 63609, 63537, 65158, 65172, 62824, 69622, 63876, 62170, 56567, 61496, 61741, 61738, 61736, 61733, 61732, 61731, 61730, 61729, 61728, 61727, 76735, 76658, 76657, 76656, 76733, 76653, 62707, 63915, 51257, 65480, 65603, 61908, 61438, 66732, 61435, 61443, 61321, 61320, 61319, 61318, 61317, 61316, 61315, 61314, 61313, 63975, 61312, 63974, 61311, 62603, 61437, 61458, 61455, 61816, 61815, 61814, 61813, 61811, 61810, 61809, 61808, 61807, 61806, 61805, 61804, 61803, 61802, 61801, 61800, 62606, 62097, 76595, 76591, 76683

| COD.         | PCS. | Utilizado en / Used in / Utilisé dans |  |  | Medidas en / Sizes in / Mesures en |  |
|--------------|------|---------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------|
| <b>51555</b> | 102  | América / America / L'Amérique        | 50995, 50994                                                                       | 50986                                                                               | inch                               | 25                                                                                   |

Composición / Composition / Composition

55326, 63299, 62848, 62847, 63436, 63416, 62871, 63396, 63681, 63645, 63609, 63573, 63537, 65158, 65362, 62824, 69622, 63876, 62170, 56567, 61495, 60354, 60352, 60351, 60349, 60348, 60347, 60345, 60344, 60343, 60342, 76735, 76658, 76657, 76656, 75178, 75177, 75176, 75175, 62707, 63915, 51257, 65480, 65603, 61908, 61444, 61438, 66732, 61435, 61443, 60430, 60429, 60428, 60247, 60426, 60425, 60424, 60423, 60422, 60421, 60420, 62606, 61437, 61458, 61455, 60474, 60473, 60472, 60471, 60470, 60469, 60468, 60467, 60459, 60466, 60465, 60464, 60463, 60462, 60461, 60460, 62606, 62097, 76595, 76591, 76583

■ JUEGOS PROFESIONALES DE FONTANERÍA / PROFESSIONAL PLUMBING SETS / SETS PROFESSIONNELS POUR PLOMBERIE / PROFESSIONAL WERKZEUGSETS FÜR KLEMPNER / SET PROFESSIONALI DI IDRAULICA / JOGOS PROFISIONAL DE CANALIZAÇÃO / НАБОР САПТЕХНІКА

■ BASIC 8 PCS.



| COD.         | PCS. | Utilizado en / Used in / Utilisé dans             |  |  |
|--------------|------|---------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>51535</b> | 8    | Sur de Europa / Southern Europe / Le Sud d'Europe | 50994                                                                                | 8,0                                                                                   |

Composición / Composition / Composition

61004, 63171, 61480, 62135, 63205, 68003, 61237, 63119

| COD.         | PCS. | Utilizado en / Used in / Utilisé dans                                            |  |  |
|--------------|------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>51538</b> | 8    | Centro y norte de Europa / Central and northern Europe / Centre et Nord d'Europe | 50994                                                                                 | 8,0                                                                                   |

Composición / Composition / Composition

61011, 63171, 61480, 62135, 63205, 68003, 61237, 63119



| COD.         | PCS. | Utilizado en / Used in / Utilisé dans |  |  |
|--------------|------|---------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>51541</b> | 8    | América / America / L'Amérique        | 50994                                                                              | 8,0                                                                                 |

## Composición / Composition / Composition

63119, 63171, 61480, 62106, 61017, 63205, 68001, 61237

## ■ ADVANCED 38 PCS.



| COD.         | PCS. | Utilizado en / Used in / Utilisé dans             |  |  |
|--------------|------|---------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>51536</b> | 38   | Sur de Europa / Southern Europe / Le Sud d'Europe | 50994, 50984                                                                       | 15                                                                                  |


## Composición / Composition / Composition

55326, 63097, 61004, 63370, 61708, 61707, 65148, 65172, 63205, 68003, 63171, 61237, 69614, 63119, 66053, 66052, 66440, 66439, 66404, 66402, 66401, 62135, 61480, 61511, 61706, 61705, 61704, 61703, 61702, 61701, 62333

| COD.         | PCS. | Utilizado en / Used in / Utilisé dans                                            |  |  |
|--------------|------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>51539</b> | 38   | Centro y norte de Europa / Central and northern Europe / Centre et Nord d'Europe | 50994, 50984                                                                          | 15                                                                                    |

## Composición / Composition / Composition

55326, 63097, 61011, 63370, 61708, 61707, 65148, 65172, 63205, 68003, 63171, 61237, 69614, 63119, 66053, 66052, 66440, 66439, 66404, 66402, 66401, 62135, 61480, 61511, 61706, 61705, 61704, 61703, 61702, 61701, 62333

| COD.         | PCS. | Utilizado en / Used in / Utilisé dans |  |  |
|--------------|------|---------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>51542</b> | 38   | América / America / L'Amérique        | 50994, 50984                                                                         | 15                                                                                    |


## Composición / Composition / Composition

55326, 63097, 65148, 63370, 61480, 61017, 65362, 63205, 68001, 63171, 61237, 69614, 63119, 66053, 66052, 66440, 66439, 55334, 55332, 55331, 62106, 61495, 60311, 60309, 60310, 60306, 60305, 60304, 60303, 60302, 62333

# BE SAFE...BE EFFICIENT




■ MASTER 56 PCS.



| COD.  | PCS. | Utilizado en / Used in / Utilisé dans             |  |  |  |
|-------|------|---------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 51537 | 56   | Sur de Europa / Southern Europe / Le Sud d'Europe | 50995, 50984                                                                      | 50986                                                                               | 21                                                                                  |

Composición / Composition / Composition

63076, 58641, 55326, 63097, 68178, 68182, 63299, 61708, 61707, 62848, 62847, 63436, 63416, 62871, 63396, 68180, 68175, 63208, 63121, 61004, 65148, 68059, 65172, 63205, 68003, 63171, 61237, 69614, 63876, 63119, 66053, 66052, 66440, 66439, 66404, 66402, 66401, 62707, 61481, 61035, 61511, 61706, 61705, 61704, 61703, 61702, 61701, 62343, 62333

| COD.  | PCS. | Utilizado en / Used in / Utilisé dans                                            |  |  |  |
|-------|------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 51540 | 56   | Centro y norte de Europa / Central and northern Europe / Centre et Nord d'Europe | 50995, 50984                                                                       | 50986                                                                                | 21                                                                                   |

Composición / Composition / Composition

63076, 58641, 55326, 63097, 68178, 68182, 65172, 61011, 63299, 65158, 68059, 68180, 68175, 63208, 63121, 62848, 62847, 63436, 63416, 62871, 63396, 63205, 68003, 63171, 61237, 69614, 63876, 63119, 66053, 66052, 61708, 61707, 66440, 66439, 66404, 66402, 66401, 62707, 61481, 61035, 61511, 61706, 61705, 61704, 61703, 61702, 61701, 62343, 62333

| COD.  | PCS. | Utilizado en / Used in / Utilisé dans |  |  |  |
|-------|------|---------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 51543 | 56   | América / America / L'Amérique        | 50995, 50984                                                                        | 50986                                                                                 | 21                                                                                    |



Composición / Composition / Composition

63076, 58641, 55326, 63097, 68178, 68182, 63299, 61708, 61707, 62848, 62847, 63436, 63416, 62871, 63396, 68180, 68175, 63208, 63121, 61004, 65148, 68059, 65172, 63205, 68003, 63171, 61237, 69614, 63876, 63119, 66053, 66052, 66440, 66439, 66404, 66402, 66401, 62707, 61481, 61035, 61511, 61706, 61705, 61704, 61703, 61702, 61701, 62343, 62333

■ JUEGOS PROFESIONALES DE ELECTRICIDAD / PROFESSIONAL ELECTRICIAN SETS / SETS PROFESSIONNELS POUR ÉLECTRICIENS / PROFESSIONAL WERKZEUGSETS FÜR ELEKTRIKER / SET PROFESSIONALI DI ELETTICITÀ / JOGOS PROFISIONAL DE ELETRICIDADE / НАБОР ЭЛЕКТРИКА

■ BASIC 11-12 PCS.



| COD.  | PCS. | Utilizado en / Used in / Utilisé dans             |  | Medidas en / Sizes in / Mesures en |  |
|-------|------|---------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|
| 51544 | 12   | Sur de Europa / Southern Europe / Le Sud d'Europe | 50983                                                                               | mm                                 | 5,0                                                                                   |

Composición / Composition / Composition

76603, 76552, 76654, 76652, 73042, 73035, 76595, 76583, 76657, 76656, 76653, 76651

| COD.         | PCS. | Utilizado en / Used in / Utilisé dans |  | Medidas en / Sizes in / Mesures en |  |
|--------------|------|---------------------------------------|-----------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------|
| <b>51547</b> | 11   | América / America / L'Amérique        | 50983                                                                             | inch                               | 5,0                                                                                 |

## Composición / Composition / Composition

76603, 76552, 73042, 73035, 76595, 76583, 76657, 76656, 75177, 75176, 75175

## ■ ADVANCED 33-34 PCS.



| COD.         | PCS. | Utilizado en / Used in / Utilisé dans             |  | Medidas en / Sizes in / Mesures en |  |
|--------------|------|---------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------|
| <b>51545</b> | 34   | Sur de Europa / Southern Europe / Le Sud d'Europe | 50994                                                                             | mm                                 | 11                                                                                  |

## Composición / Composition / Composition

76603, 55326, 73036, 73004, 76552, 76732, 76654, 76652, 73073, 73071, 73067, 73065, 73064, 73062, 73042, 76147, 73035, 79058, 65158, 65173, 69603, 63876, 65868, 73257, 76595, 76583, 76735, 76658, 76657, 76656, 76655, 76733, 76653, 76651

| COD.         | PCS. | Utilizado en / Used in / Utilisé dans |  | Medidas en / Sizes in / Mesures en |  |
|--------------|------|---------------------------------------|-------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|
| <b>51548</b> | 33   | América / America / L'Amérique        | 50994                                                                               | inch                               | 11                                                                                    |

## Composición / Composition / Composition

76603, 55326, 73036, 73001, 76552, 73054, 73052, 73050, 73048, 73047, 73046, 73042, 76147, 73035, 79058, 65158, 65363, 69603, 63876, 65868, 73257, 76595, 76583, 76735, 76658, 76657, 76656, 76655, 75179, 75178, 75177, 75176, 75175

## ■ MASTER 53-54 PCS.



| COD.         | PCS. | Utilizado en / Used in / Utilisé dans             |  |  | Medidas en / Sizes in / Mesures en |  |
|--------------|------|---------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|
| <b>51546</b> | 54   | Sur de Europa / Southern Europe / Le Sud d'Europe | 50983, 50984                                                                        | 50986                                                                                | mm                                 | 15                                                                                    |

## Composición / Composition / Composition

73040, 51257, 58641, 79058, 73036, 73035, 73029, 63876, 69603, 55326, 79373, 79372, 79371, 79370, 76552, 73073, 73071, 73069, 73068, 73067, 73066, 73065, 73064, 73063, 73062, 65868, 76735, 76733, 76732, 76730, 76658, 76657, 76656, 76655, 76654, 76653, 76652, 76651, 75203, 75202, 75158, 75157, 75156, 73004, 76603, 76597, 76595, 76590, 76583, 73257, 73042, 62602, 65173, 65158

| COD.  | PCS. | Utilizado en / Used in / Utilisé dans |  |  | Medidas en / Sizes in / Mesures en |  |
|-------|------|---------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------|
| 51549 | 53   | América / America / L'Amérique        | 50983, 50984                                                                      | 50986                                                                              | inch                               | 15                                                                                  |



## Composición / Composition / Composition

69603, 76603, 76590, 58641, 55326, 73036, 73001, 76552, 65868, 79382, 79381, 79380, 79377, 73054, 73052, 73051, 73050, 73049, 73048, 73047, 73046, 73045, 73043, 73029, 73042, 73035, 73040, 79058, 65158, 65363, 51257, 63876, 75203, 75202, 79491, 79490, 79489, 62602, 73257, 76597, 76595, 76583, 76735, 76658, 76657, 76656, 76655, 75179, 75178, 75177, 75176, 75175, 75172

## ■ BANDEJAS / TRAYS / PLATEAUX / ABLAGEKASTEN / PANNELLO / TABULEIROS / ПОДДОНЫ





## ■ 15 PCS.

| COD.  | PCS.                                                                               |  | L x W (mm)                                                                                                             |  |
|-------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 68954 | 15                                                                                 | 51025, 51039, 50950, 51045                                                          | 565 x 405                                                                                                              | 2,0                                                                                   |
| PCS.  | Composición / Composition / Composition                                            |                                                                                     | Descripción / Description / Description                                                                                |                                                                                       |
| 12    | 66400, 66401, 66403, 66405, 66439, 66440, 66478, 66479, 66480, 66481, 66483, 66484 |                                                                                     | Destornilladores Mastertork: mecánico, Phillips®, Torx® / Screwdrivers Mastertork: slotted, Phillips®, Torx®           |                                                                                       |
| 3     | 62332, 62339, 62343                                                                |                                                                                     | Alicates Titacrom®: universal, telefonista y corte diagonal / Pliers Titacrom®: combination, long nose, diagonal plier |                                                                                       |





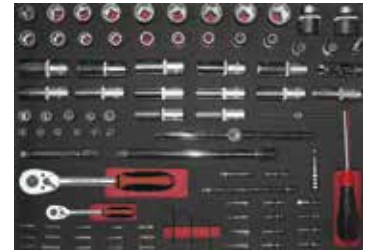
## ■ 26 PCS.

| COD.  | PCS.                                                                                                                                                                                 |  | L x W (mm)                                                                               |  |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 68955 | 26                                                                                                                                                                                   | 51025, 51039, 50950, 51045                                                          | 565 x 405                                                                                | 5,5                                                                                   |
| PCS.  | Composición / Composition / Composition                                                                                                                                              |                                                                                     | Descripción / Description / Description                                                  |                                                                                       |
| 26    | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736, 61737, 61738, 61739, 61740, 61741, 61742, 61743, 61744, 61745, 61746, 61747, 61748, 61749, 61750 |                                                                                     | Llaves combinadas cromado aeroespacial / Aerospaceal chrome plating combination wrenches |                                                                                       |





## 89 PCS.

| COD.         | PCS.                                                                                                                                                                                                                                                                                                                             |  | L x W (mm)                                                            |  |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>68956</b> | 89                                                                                                                                                                                                                                                                                                                               | 51025, 51039, 50950, 51045                                                        | 565x 405                                                              | 7,5                                                                                 |
| PCS.         | Composición / Composition / Composition                                                                                                                                                                                                                                                                                          |                                                                                   | Descripción / Description / Description                               |                                                                                     |
| 46           | 61800, 61801, 61802, 61803, 61804, 61805, 61806, 61807, 61808, 61809, 61810, 61811, 61812, 61813, 61814, 61815, 61816, 61817, 61818, 61819, 61822, 61823, 61311, 61312, 61313, 61314, 61315, 61316, 61317, 61318, 61319, 61320, 61321, 65044, 65045, 65046, 65047, 65048, 65049, 65050, 65051, 65052, 65053, 65054, 65055, 65056 |                                                                                   | Llaves de vaso / Socket wrenches                                      |                                                                                     |
| 2            | 61438, 61440                                                                                                                                                                                                                                                                                                                     |                                                                                   | Mango correrizo en T / Sliding "T" handle                             |                                                                                     |
| 4            | 61442, 61444, 61455, 61458                                                                                                                                                                                                                                                                                                       |                                                                                   | Alargadera / Extension                                                |                                                                                     |
| 2            | 62603, 62606                                                                                                                                                                                                                                                                                                                     |                                                                                   | Llave de carraca reversible / Reversible ratchet handle               |                                                                                     |
|              | 61435, 61437                                                                                                                                                                                                                                                                                                                     |                                                                                   | Articulación universal / Universal joint                              |                                                                                     |
| 1            | 66731                                                                                                                                                                                                                                                                                                                            |                                                                                   | Destornillador portapuntas magnético / Screwdriver magnetic bitholder |                                                                                     |
| 15           | 58230, 58231, 58232, 58242, 58243, 58247, 58248, 58253, 58254, 58255, 58164, 58165, 58271, 58155, 58272                                                                                                                                                                                                                          |                                                                                   | Puntas de destornillador Masterbit / Masterbit bits                   |                                                                                     |
| 3            | 61501, 61502, 61503                                                                                                                                                                                                                                                                                                              |                                                                                   | Llaves hexagonales / Hexagonal keys                                   |                                                                                     |
| 1            | 66264                                                                                                                                                                                                                                                                                                                            |                                                                                   | Adaptador portapuntas magnético / Magnetic bit holder                 |                                                                                     |
| 13           | 66733, 66734, 66735, 66737, 66738, 66740, 66741, 66748, 66750, 66751, 66752, 66753, 66755                                                                                                                                                                                                                                        |                                                                                   | Puntas atornilladoras con vaso / Socket bits                          |                                                                                     |





## 16 PCS.

| COD.         | PCS.                                     |  | L x W (mm)                                       |  |
|--------------|------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>68957</b> | 16                                       | 51025, 51039, 50950, 51045                                                         | 565 x 405                                        | 4,5                                                                                  |
| PCS.         | Composición / Composition / Composition  |                                                                                    | Descripción / Description / Description          |                                                                                      |
| 1            | 63742                                    |                                                                                    | Arco de sierra / Hack Saw                        |                                                                                      |
| 3            | 62169, 62170, 62171                      |                                                                                    | Tijera articulada / Aviation tin snip            |                                                                                      |
| 1            | 63876                                    |                                                                                    | Cortadores / Cutters                             |                                                                                      |
| 3            | 62848, 62850, 62851                      |                                                                                    | Cinzel mecánico / Flat cold chisel               |                                                                                      |
| 6            | 63394, 63395, 63396, 63397, 63398, 63399 |                                                                                    | Botador / Pin punch                              |                                                                                      |
| 1            | 69621                                    |                                                                                    | Martillo alemán / German type machinist's hammer |                                                                                      |
|              | 55326                                    |                                                                                    | Maceta de nylon / Nylon hammer                   |                                                                                      |





## 18 PCS.

| COD.         | PCS.                                                                        |  | L x W (mm)                              |  |
|--------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------|
| <b>68958</b> | 18                                                                          | 51025, 51039, 50950, 51045                                                          | 565 x 405                               | 3,5                                                                                   |
| PCS.         | Composición / Composition / Composition                                     |                                                                                     | Descripción / Description / Description |                                                                                       |
| 11           | 63498, 63570, 63606, 63642, 63678, 63714, 63715, 63716, 63717, 63718, 63719 |                                                                                     | Limas / Files                           |                                                                                       |
| 4            | 62180, 62181, 62182, 62183                                                  |                                                                                     | Alicates Circlips / Circlips pliers     |                                                                                       |
|              | 62172                                                                       |                                                                                     | Tenaza Grip / Grip plier                |                                                                                       |
| 1            | 61944                                                                       |                                                                                     | Llave ajustable / Adjustable wrench     |                                                                                       |
|              | 62707                                                                       |                                                                                     | Tenaza de canal / Box joint             |                                                                                       |



## 7 PCS.

| COD.         | PCS.                                    |  | L x W (mm)                                                            |  |
|--------------|-----------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>68959</b> | 7                                       | 51025, 51039, 50950, 51045                                                          | 565 x 405                                                             | 2,0                                                                                   |
| PCS.         | Composición / Composition / Composition |                                                                                     | Descripción / Description / Description                               |                                                                                       |
|              | 69534                                   |                                                                                     | Tijera electricista / Electrician's scissors                          |                                                                                       |
|              | 62494                                   |                                                                                     | Tenaza para engastar / Crimping plier                                 |                                                                                       |
|              | 62151                                   |                                                                                     | Tenaza cortacables / Cable cutters                                    |                                                                                       |
| 1            | 65167                                   |                                                                                     | Flexómetro / Measuring tape                                           |                                                                                       |
|              | 65293                                   |                                                                                     | Nivel trapezoidal profesional / Professional bridge type spirit level |                                                                                       |
|              | 65480                                   |                                                                                     | Calibre / Caliper                                                     |                                                                                       |
|              | 66073                                   |                                                                                     | Buscapolos / Voltage tester                                           |                                                                                       |



**MOBILIARIO INDUSTRIAL MODULAR / MODULAR INDUSTRIAL FURNITURE / MOBILIER INDUSTRIEL MODULAIRE / MODULARE INDUSTRIEMÖBEL / MOBILIO INDUSTRIALE MODULARE / MOBILIÁRIO INDUSTRIAL MODULAR / МОДУЛЬНАЯ ПРОИЗВОДСТВЕННАЯ МЕБЕЛЬ**
**ARMARIO ALTO / TALL CABINET / ARMOIRE HAUTE / GROSSE WERKZEUGSCHRANK / ARMADIO ALTO / ARMÁRIO VERTICAL 2 PORTAS / ВЫСОКИЙ ШКАФ-КАБИНЕТ**
**915 × 458 × 2000**

| COD.         | L x W x H (mm)   | Kg |
|--------------|------------------|----|
| <b>50111</b> | 915 x 458 x 2000 | 78 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

4 baldas incluidas / 4 shelves included / 4 étagères incluses


**600 × 458 × 2000**

| COD.         | L x W x H (mm)   | Kg |
|--------------|------------------|----|
| <b>50112</b> | 600 x 458 x 2000 | 55 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

4 baldas incluidas / 4 shelves included / 4 étagères incluses


**BALDA / SHELF / ÉTAGÈRE / REGAL / RIPIANO / PRATELEIRA / ПОЛКА**

| COD.         | L x W x H (mm) | Válido para / Valid for / Valable pour |
|--------------|----------------|----------------------------------------|
| <b>50110</b> | 913 x 456 X 30 | 50111                                  |


**ARMARIO DE PARED / WALL CABINET / ARMOIRE MURALE / WANDSCHRANK / ARMADIO DA PARETE / ARMÁRIO DE PAREDE / НАСТЕННЫЙ ШКАФ-КАБИНЕТ**
**680 × 281 × 350**

| COD.         | L x W x H (mm)  | Kg |
|--------------|-----------------|----|
| <b>50113</b> | 680 x 281 x 350 | 10 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Puerta abatible hacia arriba / Lift up door / Porte rabattable vers le haut



| COD.         | L x W x H (mm)  | Kg  |
|--------------|-----------------|-----|
| <b>50114</b> | 680 x 281 x 350 | 8,5 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Puerta corredera / Sliding door / Porte coulissante


**PANEL COLGADOR / HANGING PANEL / PANNEAU ACROCHABLE / RÜCKWANDTAFEL / PANNELLI FORATI / PAINEL PARA FERRAMENTAS / НАСТЕННАЯ ПАНЕЛЬ**

| COD.         | L x W x H (mm)    | Kg  |
|--------------|-------------------|-----|
| <b>50137</b> | 1052 x 614,5 x 24 | 5,5 |
| <b>50136</b> | 1052 x 800 x 24   | 7,0 |


**GANCHOS OPCIONALES / OPTIONAL HOOKS / CROCHETS OPTIONNELS / OPTIONALE HAKEN / GANCI OPZIONALI / GANCHOS OPCIONAIS / ДОПОЛНИТЕЛЬНЫЕ КРЮЧКИ**

| COD.         | L x W x H (mm) |
|--------------|----------------|
| <b>90312</b> | 60 x 35 x 58   |

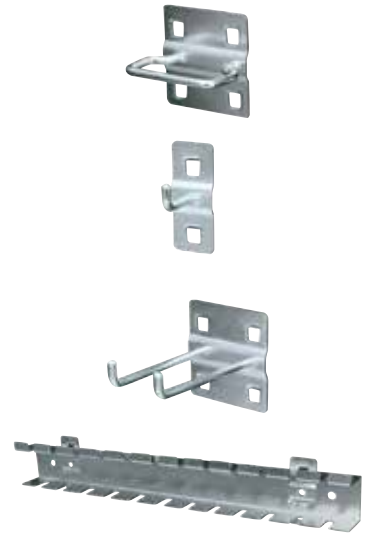


| COD.  | L x W x H (mm) |
|-------|----------------|
| 90313 | 60 x 41 x 58   |

| COD.  | L x W x H (mm) |
|-------|----------------|
| 90315 | 60 x 35 x 25   |

| COD.  | L x W x H (mm) |
|-------|----------------|
| 90316 | 60 x 87 x 58   |

| COD.  | L x W x H (mm) |
|-------|----------------|
| 90314 | 370 x 34 x 48  |



#### BALDA / SHELF / ÉTAGÈRE / REGAL / MENSOLA / PRATELEIRA / ПОЛКА

| COD.  | L x W x H (mm)  | Kg  |
|-------|-----------------|-----|
| 50138 | 602 x 281 x 178 | 3,0 |

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES    |  |      |
|-----------------------------------------------------------------------------|--|------|
| Máx. capacidad de carga / Max. weight capacity / Capacité maximum de charge |  | 5 kg |



#### COLUMNA / PILLAR / COLONNE / SAÛLE / COLONNA / COLUNA / РЕЙКА

32,5 x 30 x 1420

| COD.  | L x W x H (mm)   | Kg  |
|-------|------------------|-----|
| 50117 | 32,5 x 30 x 1420 | 1,5 |



#### ARMARIO DOBLE PUERTA / 2 DOOR CABINET / ARMOIRE À DOUBLE PORTE / 2 TURIGE SCHRANK / ARMADIO A DUE PORTE / ARMÁRIO BAIXO COM PORTA SIMPLES / ДВУДВЕРНЫЙ КАБИНЕТ

680 x 458 x 910

| COD.  | L x W x H (mm)  | Kg |
|-------|-----------------|----|
| 50118 | 680 x 458 x 910 | 38 |

| CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES           |  |  |
|---------------------------------------------------------|--|--|
| 1 balda incluida / 1 shelf included / 1 étagère incluse |  |  |



#### BALDA / SHELF / ÉTAGÈRE / REGAL / RIPIANO / PRATELEIRA / ПОЛКА

| COD.  | L x W x H (mm) | Válido para / Valid for / Valable pour |
|-------|----------------|----------------------------------------|
| 50109 | 67 x 42 x 2,5  | 50118                                  |





**PAPELERA CON SUJETAPAPEL / TRASH BIN WITH PAPER HOLDER / CORBEILLE A PRESSE-PAPIER / MÜLLEIMER MIT PAPIERHALTER / MODULO FISSO DI SERVIZIO PER ARREDO OFFICINA / CAIXOTE DO LIXO COM SUPORTE DE PAPEL / МУСОРОСБОРНИК С ВСТРОЕННЫМ ДЕРЖАТЕЛЕМ РУЛОННОЙ БУМАГИ**

680 × 458 × 910

| COD.         | L x W x H (mm)  | Kg |
|--------------|-----------------|----|
| <b>50119</b> | 680 x 458 x 910 | 55 |


**ARMARIO DE 4 CAJONES / 4 DRAWER CABINET / SERVANTES DE 4 TIROIRS / WERKZEUGWAGEN MIT 4 SCHUBLADEN / ARMADIO CON 4 CASSETTI / CARROS + 4 GAVETAS / ШКАФ-КАБИНЕТ С ЧЕТЫРЬЯ ВЪЕЗЖНЫМИ ЯЩИКАМИ**

680 × 458 × 910

| COD.         | L x W x H (mm)  | Kg |
|--------------|-----------------|----|
| <b>50120</b> | 680 x 458 x 910 | 55 |


**ARMARIO DE 5 CAJONES / 5 DRAWER CABINET / SERVANTES DE 5 TIROIRS / WERKZEUGWAGEN MIT 5 SCHUBLADEN / ARMADIO CON 5 CASSETTI / CARROS + 5 GAVETAS / ШКАФ-КАБИНЕТ С ПЯТЬЮ ВЪЕЗЖНЫМИ ЯЩИКАМИ**

680 × 458 × 910

| COD.         | L x W x H (mm)  | Kg |
|--------------|-----------------|----|
| <b>50121</b> | 680 x 458 x 910 | 60 |



680 × 458 × 731,5

| COD.         | L x W x H (mm)    | Kg |
|--------------|-------------------|----|
| <b>50122</b> | 680 x 458 x 731,5 | 46 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Con ruedas / With wheels / Avec roues


**SOPORTE / SUPPORT / SUPPORT / HALTER / SUPPORTO / SUPORTE / СРЕДНЯЯ**

| COD.         | L x W x H (mm) | Válido para / Valid for / Valable pour | Kg  |
|--------------|----------------|----------------------------------------|-----|
| <b>50135</b> | 450 x 330 x 32 | 50122                                  | 1,5 |



**TABLERO LAMINADO / PRESSED WOODEN BOARD / PLATEAU BOIS / HOLZ-ARBEITSPLATTE / PANNELLO LAMINATO / TAMPO EM MADEIRA / СТОЛЕШНИЦА ИЗ ПРЕССОВАННОЙ ДРЕВЕСИНЫ**

| COD.  | L x W x H (mm)    | Kg  |
|-------|-------------------|-----|
| 50123 | 680,5 x 463 x 36  | 6,0 |
| 50124 | 1361 x 463 x 36   | 13  |
| 50125 | 2041,5 x 463 x 36 | 19  |


**TABLERO INOXIDABLE / STAINLESS BOARD / PLATEAU INOX / EDELSTAHL BRETT / PANNELLO INOX / TAMPO EM AÇO INOXIDÁVEL / СТОЛЕШНИЦА ИЗ Н/Ж СТАЛИ**

| COD.  | L x W x H (mm)    | Kg |
|-------|-------------------|----|
| 50126 | 680,5 x 463 x 38  | 11 |
| 50127 | 1361 x 463 x 38   | 21 |
| 50128 | 2041,5 x 463 x 38 | 32 |


**ARMARIO DE PARED EN ESQUINA / CORNER WALL CABINET / ARMOIRE MURALE D'ANGLE / ECKWAND KABINETT / ARMADIO DA PARETE AD ANGOLO / ARMÁRIO DE ESQUINA / УГЛОВОЙ НАСТЕННЫЙ КАБИНЕТ**

865 × 865 × 350

| COD.  | L x W x H (mm)  | Kg |
|-------|-----------------|----|
| 50130 | 865 x 865 x 350 | 21 |


**MADERA LAMINADA EN ESQUINA / CORNER PRESSED WOOD / PLATEAU D'ANGLE BOIS / ECKIGE GEPRESSTEM HOLZBRETT / COPERCHIO IN LEGNO LAMINATO AD ANGOLO / TABULEIRO ANGULAR EM MADEIRA / УГЛОВАЯ СТОЛЕШНИЦА ИЗ ПРЕССОВАННОЙ ДРЕВЕСИНЫ**

865 × 865 × 36

| COD.  | L x W x H (mm) | Kg |
|-------|----------------|----|
| 50131 | 865 x 865 x 36 | 13 |


**TAPA INOXIDABLE EN ESQUINA / CORNER STAINLESS TOP / COUVERCLE INOX, D'ÀNGLE / ECKIGE EDELSTAHL BRETT / COPERCHIO IN INOX AD ANGOLO / TABULEIRO ANGULAR EM AÇO INOXIDÁVEL / УГЛОВАЯ СТОЛЕШНИЦА ИЗ Н/Ж СТАЛИ**

865 × 865 × 38,6

| COD.  | L x W x H (mm)   | Kg |
|-------|------------------|----|
| 50133 | 865 x 865 x 38,6 | 18 |


**ARMARIO BAJO EN ESQUINA / CORNER BASE CABINET / MEUBLE D'ANGLE BAS / ECKUNTERSCHRANK / ARMADIO BASSO AD ANGOLO / ARMÁRIO BAIXO DE ESQUINA / УГЛОВОЙ СТОЛ-КАБИНЕТ**

865 × 865 × 910

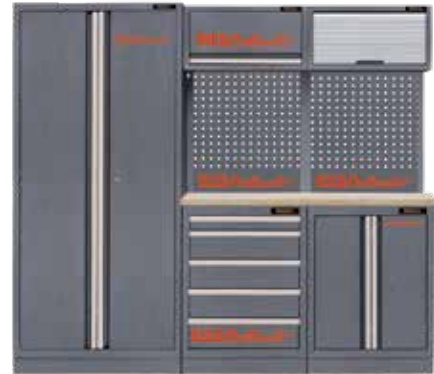
| COD.  | L x W x H (mm)  | Kg |
|-------|-----------------|----|
| 50134 | 865 x 865 x 910 | 42 |



### COMBINATION 1

#### 2275 x 2000

| COD.         | L x H (mm)  |  |
|--------------|-------------|--|
| <b>50101</b> | 2275 x 2000 |  |
| PCS.         | COD. PCS.   |  |
|              | 50111       |  |
| 1            | 50113       |  |
|              | 50114       |  |
| 2            | 50137       |  |
| 5            | 50117       |  |
|              | 50124       |  |
| 1            | 50121       |  |
|              | 50118       |  |



### COMBINATION 2

#### 2640 x 2000

| COD.         | L x H (mm)  |  |
|--------------|-------------|--|
| <b>50102</b> | 2640 x 2000 |  |
| PCS.         | COD. PCS.   |  |
|              | 50112       |  |
| 1            | 50113       |  |
| 2            | 50114       |  |
| 1            | 50137       |  |
| 3            | 50137       |  |
| 7            | 50117       |  |
|              | 50125       |  |
|              | 50121       |  |
| 1            | 50122       |  |
|              | 50118       |  |



### COMBINATION 3

#### 2955 x 2000

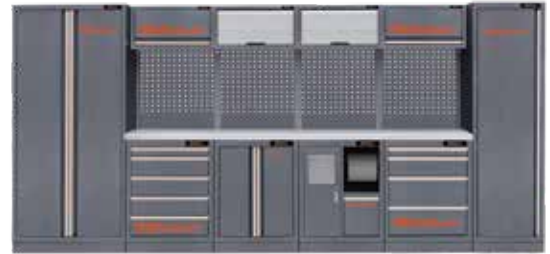
| COD.         | L x H (mm)  |  |
|--------------|-------------|--|
| <b>50103</b> | 2955 x 2000 |  |
| PCS.         | COD. PCS.   |  |
|              | 50111       |  |
| 1            | 50113       |  |
| 2            | 50113       |  |
| 1            | 50114       |  |
| 3            | 50137       |  |
| 7            | 50117       |  |
|              | 50125       |  |
|              | 50121       |  |
| 1            | 50119       |  |
|              | 50118       |  |



#### COMBINATION 4

4235 x 2000

| COD.         | L x H (mm)  |  |
|--------------|-------------|--|
| <b>50104</b> | 4235 x 2000 |  |
| PCS.         | COD. PCS.   |  |
| 1            | 50111       |  |
|              | 50112       |  |
| 2            | 50113       |  |
|              | 50114       |  |
| 4            | 50137       |  |
| 10           | 50117       |  |
| 2            | 50127       |  |
|              | 50121       |  |
|              | 50119       |  |
| 1            | 50118       |  |
|              | 50120       |  |



#### COMBINATION 5

4915 x 2000

| COD.         | L x H (mm)  |  |
|--------------|-------------|--|
| <b>50105</b> | 4915 x 2000 |  |
| PCS.         | COD. PCS.   |  |
|              | 50111       |  |
|              | 50112       |  |
|              | 50121       |  |
| 1            | 50118       |  |
|              | 50120       |  |
|              | 50122       |  |
|              | 50119       |  |
| 2            | 50114       |  |
| 3            | 50113       |  |
| 5            | 50137       |  |
| 12           | 50117       |  |
|              | 50128       |  |
| 1            | 50127       |  |

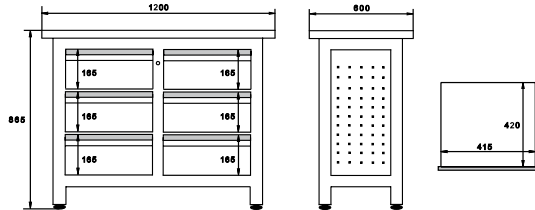


#### COMBINACIÓN DE ALMACENAJE EN ESQUINA / CORNER STORAGE COMBINATION / COMBINAISON DE STOCKAGE D'ANGLE / ECKIGE LAGERUNGSKOMBINATION / COMBINAZIONE STOCCAGGIO AD ANGOLO / COMBINAÇÃO DE ARMAZÉM DE ESQUINA / УГЛОВОЙ КОМПЛЕКТ МЕБЕЛИ

865 x 2000

| COD.         | L x H (mm) |  |
|--------------|------------|--|
| <b>50106</b> | 865 x 2000 |  |
| PCS.         | COD. PCS.  |  |
| 1            | 50130      |  |
| 6            | 50117      |  |
| 1            | 50131      |  |
| 2            | 50136      |  |
| 1            | 50134      |  |

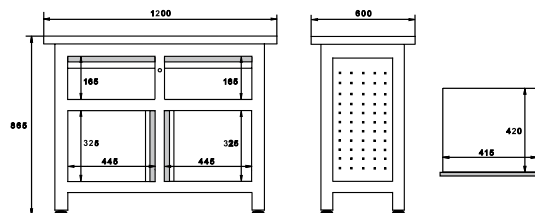


**■ MESAS DE TRABAJO / WORK BENCHES / TABLES DE MONTEUR / ARBEITSTISCHE / TAVOLI DI LAVORO / BANCADAS DE TRABALHO / РАБОЧИЕ ВЕРСТАКИ**
**■ 1200 x 600 x 865**


| COD.         | L x W x H (mm)   | Kg |
|--------------|------------------|----|
| <b>51557</b> | 1200 x 600 x 865 | 80 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

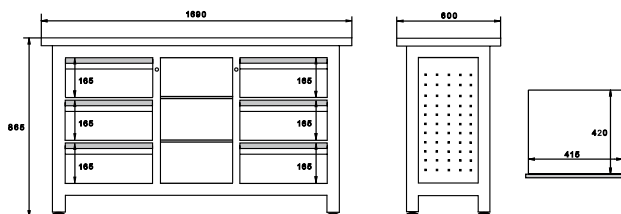
|                                                                                                                     |        |
|---------------------------------------------------------------------------------------------------------------------|--------|
| Cajones con rodamientos / <i>Ball-bearing slides</i> / <i>Tiroirs à roulement</i>                                   | 6      |
| Sistema de cierre centralizado / <i>Central locking system</i> / <i>Système de fermeture centralisée</i>            | ●      |
| Capacidad de carga estática total / <i>Total static weight capacity</i> / <i>Capacité totale de charge statique</i> | 300 Kg |



| COD.         | L x W x H (mm)   | Kg |
|--------------|------------------|----|
| <b>51556</b> | 1200 x 600 x 865 | 70 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                     |        |
|---------------------------------------------------------------------------------------------------------------------|--------|
| Puertas / <i>Doors</i> / <i>Portes</i>                                                                              | 2      |
| Cajones con rodamientos / <i>Ball-bearing slides</i> / <i>Tiroirs à roulement</i>                                   | 2      |
| Sistema de cierre centralizado / <i>Central locking system</i> / <i>Système de fermeture centralisée</i>            | ●      |
| Capacidad de carga estática total / <i>Total static weight capacity</i> / <i>Capacité totale de charge statique</i> | 300 Kg |

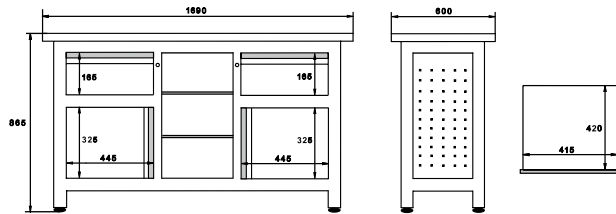

**■ 1690 x 600 x 865**


| COD.         | L x W x H (mm)   | Kg  |
|--------------|------------------|-----|
| <b>51578</b> | 1690 x 600 x 865 | 100 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                     |        |
|---------------------------------------------------------------------------------------------------------------------|--------|
| Baldas / <i>Shelves</i> / <i>Étagères</i>                                                                           | 3      |
| Cajones con rodamientos / <i>Ball-bearing slides</i> / <i>Tiroirs à roulement</i>                                   | 6      |
| Sistema de cierre centralizado / <i>Central locking system</i> / <i>Système de fermeture centralisée</i>            | ●      |
| Capacidad de carga estática total / <i>Total static weight capacity</i> / <i>Capacité totale de charge statique</i> | 300 Kg |

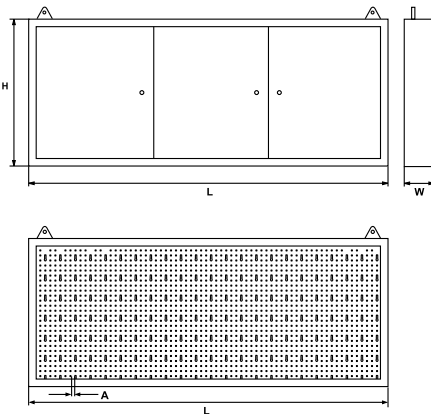




| COD.  | L x W x H (mm)   | Kg |
|-------|------------------|----|
| 51577 | 1690 x 600 x 865 | 85 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

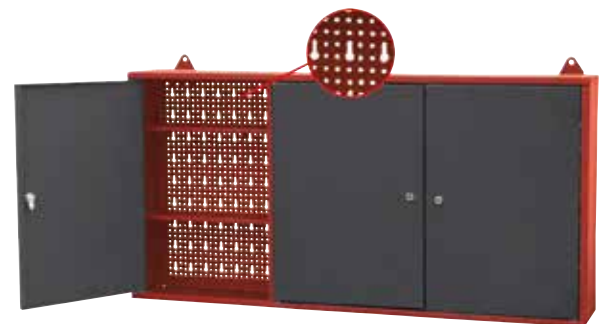
|                                                                                                       |        |
|-------------------------------------------------------------------------------------------------------|--------|
| Baldas / Shelves / Étagères                                                                           | 3      |
| Puertas / Doors / Portes                                                                              | 2      |
| Cajones con rodamientos / Ball-bearing slides / Tiroirs à roulement                                   | 2      |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée            | ●      |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique | 300 Kg |

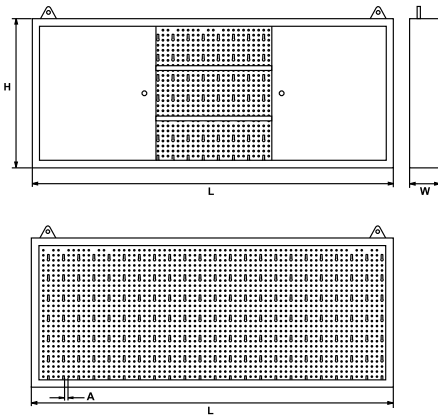

**ARMARIOS DE PARED / WALL CABINETS / ARMOIRES MURALES / WANDWERKZEUGSCHRANK / ARMADI DA PARETE / ARMÁRIO DE PAREDE / ШКАФ ИНСТРУМЕНТАЛЬНЫЙ НАСТЕННЫЙ**
**1200 x 200 x 600**


| COD.  | L x W x H (mm)   | A (mm) | Kg |
|-------|------------------|--------|----|
| 51475 | 1200 x 200 x 600 | 10     | 18 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                     |                                                                                                                                          |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Baldas / Shelves / Étagères                         | 3                                                                                                                                        |
| Puertas / Doors / Portes                            | 3                                                                                                                                        |
| Ganchos incluidos / Hook included / Crochets inclus | 6 cortos: cod. 90172 - 12 largos: cod. 90173 / 6 shorts: cod. 90172 - 12 longs: cod. 90173 / 6 courts: cod. 90172 - 12 longs: cod. 90173 |
| Cerradura con llave / Key lock / Serrure avec clé   | ●                                                                                                                                        |

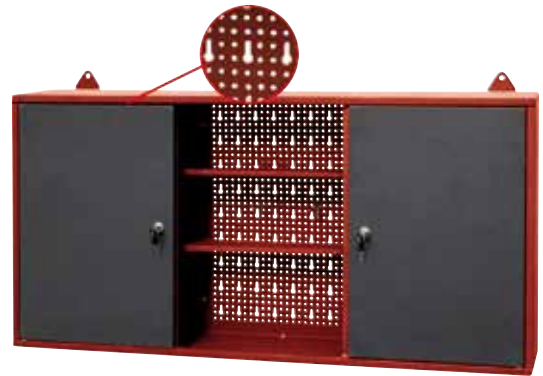




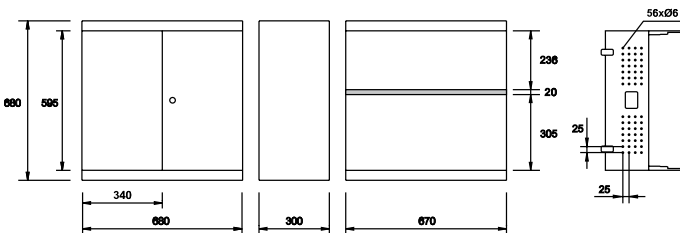
| COD.         | L x W x H (mm)   | A (mm) | Kg |
|--------------|------------------|--------|----|
| <b>51476</b> | 1200 x 200 x 600 | 10     | 16 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                     |                                                                                                                                          |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Baldas / Shelves / Étagères                         | 3                                                                                                                                        |
| Puertas / Doors / Portes                            | 2                                                                                                                                        |
| Ganchos incluidos / Hook included / Crochets inclus | 6 cortos: cod. 90172 - 12 largos: cod. 90173 / 6 shorts: cod. 90172 - 12 longs: cod. 90173 / 6 courts: cod. 90172 - 12 longs: cod. 90173 |
| Cerradura con llave / Key lock / Serrure avec clé   | ●                                                                                                                                        |


**REPUESTOS / SPARE PARTS / RECHANGES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

| COD.         | Descripción / Description / Description |                          |
|--------------|-----------------------------------------|--------------------------|
| <b>90172</b> | Ganchos / Hooks / Crochets              | Cortos / Shorts / Courts |
| <b>90173</b> |                                         | Largos / Longs / Longs   |


**680 x 300 x 680**


| COD.         | L x W x H (mm)  | Kg |
|--------------|-----------------|----|
| <b>50976</b> | 680 x 300 x 680 | 17 |

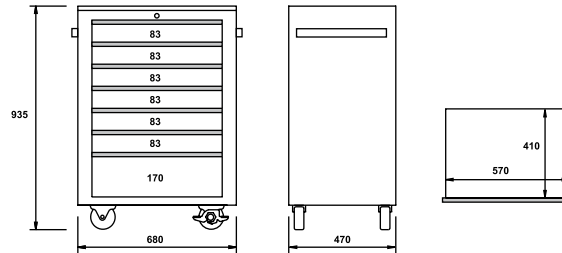
**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                   |   |
|---------------------------------------------------|---|
| Baldas / Shelves / Étagères                       | 1 |
| Cerradura con llave / Key lock / Serrure avec clé | ● |



**ARMARIOS-CARROS DE HERRAMIENTAS 100% INOX / ROLLER CABINETS 100% INOX / SERVANTES À ROUES 100% INOX / WERKZEUGWAGEN 100% INOX / CASSETTIERE MOBILI 100% INOX / CARRO DE FERRAMENTAS 100% INOX / ШКАФЫ-ТЕЛЕЖКИ ДЛЯ ИНСТРУМЕНТОВ 100% НЕРЖАВЕЮЩАЯ СТАЛЬ**
**680 × 470 × 935**


Sistema antivuelco con botón de seguridad de apertura individual por bandeja  
 Anti-overturn system with individual safety open button in each tray  
 Système anti-renversement avec bouton de sécurité d'ouverture individuelle par tiroir



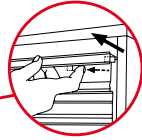
| COD.  | L x W x H (mm)  | Material estructura / Material structure / Structure matériaux | Kg |
|-------|-----------------|----------------------------------------------------------------|----|
| 51558 | 680 x 470 x 935 | Inox 304                                                       | 65 |

**INOX**
**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

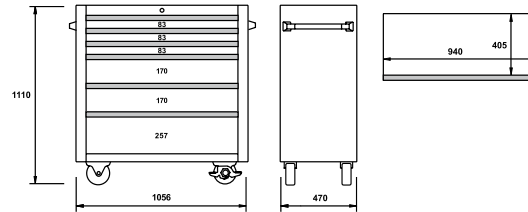
|                                                                                                                                      |                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Material / Material / Matière                                                                                                        | Exterior e interior 100% INOX / Exterior and interior 100% INOX / Extérieur et intérieur 100% INOX |
| Cajones con rodamientos / Ball-bearing slides / Tiroirs à roulement                                                                  | 7                                                                                                  |
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein | 5" x 1,5"                                                                                          |
| Capacidad cajones de altura 83 mm / Capacity in 83 mm height drawers / Capacité des tiroirs de 83 mm de haut                         | 25 Kg                                                                                              |
| Capacidad cajones de altura 170 mm / Capacity in 170 mm height drawers / Capacité des tiroirs de 170 mm de haut                      | 30 Kg                                                                                              |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                                | 320 Kg                                                                                             |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                                           | •                                                                                                  |
| Asa lateral reforzada / Reinforced side handle / Poignées latérale renforcée                                                         | •                                                                                                  |
| Sistema antivuelco en cada bandeja / Anti-overturn system in each drawers / Système anti-renversement dans chaque tiroir             | •                                                                                                  |



## ■ 1056 × 470 × 1110



Sistema antivuelco con botón de seguridad de apertura individual por bandeja  
Anti-overn system with individual safety open button in each tray  
Système anti-renversement avec bouton de sécurité d'ouverture individuelle par tiroir



| COD.  | L x W x H (mm)    | Material estructura / Material structure / Structure matériaux | Kg |
|-------|-------------------|----------------------------------------------------------------|----|
| 51559 | 1056 x 470 x 1110 | Inox 304                                                       | 95 |

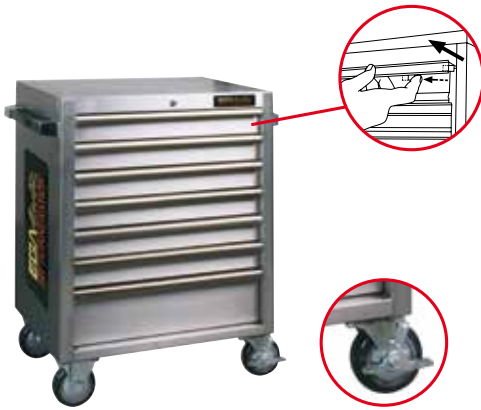
INOX

## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

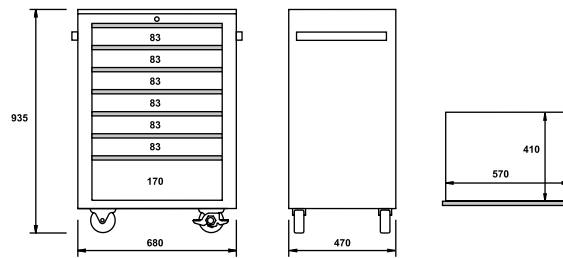
|                                                                                                                                      |                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Material / Material / Matière                                                                                                        | Exterior e interior 100% INOX / Exterior and interior 100% INOX / Extérieur et intérieur 100% INOX |
| Cajones con rodamientos / Ball-bearing slides / Tiroirs à roulement                                                                  | 6                                                                                                  |
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein | 5" x 1,5"                                                                                          |
| Capacidad cajones de altura 83 mm / Capacity in 83 mm height drawers / Capacité des tiroirs de 83 mm de haut                         | 25 Kg                                                                                              |
| Capacidad cajones de altura 170 mm / Capacity in 170 mm height drawers / Capacité des tiroirs de 170 mm de haut                      | 30 Kg                                                                                              |
| Capacidad cajones de altura 257 mm / Capacity in 257 mm height drawers / Capacité des tiroirs de 257 mm de haut                      | 30 kg                                                                                              |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                                | 500 kg                                                                                             |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                                           | ●                                                                                                  |
| Asa lateral reforzada / Reinforced side handle / Poignées latérale renforcée                                                         | ●                                                                                                  |
| Sistema antivuelco en cada bandeja / Anti-overn system in each drawers / Système anti-renversement dans chaque tiroir                | ●                                                                                                  |

**ARMARIOS-CARROS DE HERRAMIENTAS DE SUPERFICIES INOX\* / INOX SURFACE ROLLER CABINETS\* / SERVANTES À ROUES AVEC SURFACE INOX\* / WERKZEUGWAGEN MIT INOX OBERFLÄCHE\* / CASSETTIERE MOBILI PORTAUTENSILI DI SUPERFICI INOX\* / ARMÁRIOS-CARROS DE FERRAMENTA DE SUPERFÍCIE INOX\* / ШКАФЫ-ТЕЛЕЖКИ ДЛЯ ИНСТРУМЕНТОВ С ПОКРЫТИЕМ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ\***

680 × 470 × 935



Sistema antivuelco con botón de seguridad de apertura individual por bandeja  
 Anti-overtum system with individual safety open button in each tray  
 Système anti-renversement avec bouton de sécurité d'ouverture individuelle par tiroir



| COD.  | L x W x H (mm)  | Material estructura / Material structure / Structure matériaux | Material ruedas / Wheel material / Matière roues |  |
|-------|-----------------|----------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------|
| 51478 | 680 x 470 x 935 | Inox 430                                                       | Inox 304                                         | 65                                                                                  |

INOX

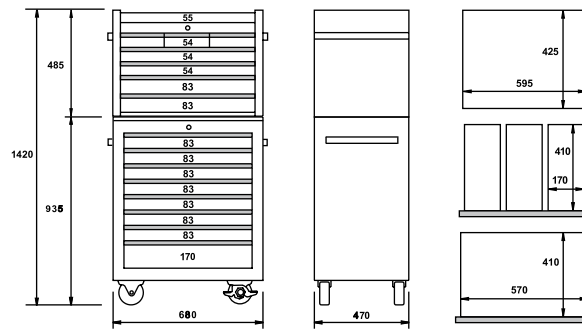
**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                                      |                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material* / Material* / Matière*                                                                                                     | Exterior 100% INOX - Interior: Acero pintado - Placa fijación ruedas: Acero / Exterior 100% INOX - Interior: Painted Steel - Wheel fixing plate: Steel / Extérieur 100% INOX - Intérieur: Acier peint - Roues de fixation: Acier |
| Cajones con rodamientos / Ball-bearing slides / Tiroirs à roulement                                                                  | 7                                                                                                                                                                                                                                |
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein | 5" x 1,5"                                                                                                                                                                                                                        |
| Capacidad cajones de altura 83 mm / Capacity in 83 mm height drawers / Capacité des tiroirs de 83 mm de haut                         | 25 Kg                                                                                                                                                                                                                            |
| Capacidad cajones de altura 170 mm / Capacity in 170 mm height drawers / Capacité des tiroirs de 170 mm de haut                      | 30 Kg                                                                                                                                                                                                                            |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                                | 320 Kg                                                                                                                                                                                                                           |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                                           | ●                                                                                                                                                                                                                                |
| Asa lateral reforzada / Reinforced side handle / Poignées latérale renforcée                                                         | ●                                                                                                                                                                                                                                |
| Sistema antivuelco en cada bandeja / Anti-overtum system in each drawers / Système anti-renversement dans chaque tiroir              | ●                                                                                                                                                                                                                                |

680 × 470 × 1420



Sistema antivuelco con botón de seguridad de apertura individual por bandeja  
 Anti-overnut system with individual safety open button in each tray  
 Système anti-renversement avec bouton de sécurité d'ouverture individuelle par tiroir



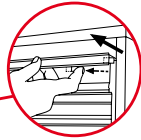
| COD.  | L x W x H (mm)   | Material estructura / Material structure / Structure matériaux | Material ruedas / Wheel material / Matière roues |  |
|-------|------------------|----------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------|
| 51563 | 680 x 470 x 1420 | Inox 430                                                       | Inox 304                                         | 110                                                                                 |

INOX

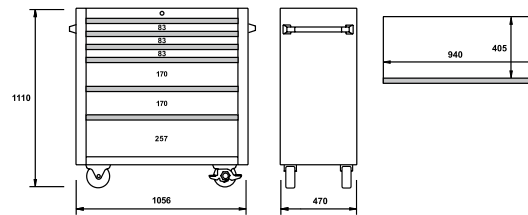
**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**


|                                                                                                                                      |                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material* / Material* / Matière*                                                                                                     | Exterior 100% INOX - Interior: Acero pintado - Placa fijación ruedas: Acero / Exterior 100% INOX - Interior: Painted Steel - Wheel fixing plate: Steel / Extérieur 100% INOX - Intérieur: Acier peint - Roues de fixation: Acier |
| Cajones con rodamientos / Ball-bearing slides / Tiroirs à roulement                                                                  | 14                                                                                                                                                                                                                               |
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein | 5" x 1,5"                                                                                                                                                                                                                        |
| Capacidad cajones 170 x 410 x 54 mm / Drawer capacity 170 x 410 x 54 mm / Capacité des tiroirs de 170 x 410 x 54 mm                  | 15 kg                                                                                                                                                                                                                            |
| Capacidad cajones 570 x 410 x 54 mm / Drawer capacity 570 x 410 x 54 mm / Capacité des tiroirs de 570 x 410 x 54 mm                  | 25 kg                                                                                                                                                                                                                            |
| Capacidad cajones de altura 83 mm / Capacity in 83 mm height drawers / Capacité des tiroirs de 83 mm de haut                         | 25 kg                                                                                                                                                                                                                            |
| Capacidad cajones de altura 170 mm / Capacity in 170 mm height drawers / Capacité des tiroirs de 170 mm de haut                      | 30 kg                                                                                                                                                                                                                            |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                                | 470 kg                                                                                                                                                                                                                           |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                                           | ●                                                                                                                                                                                                                                |
| Asa lateral reforzada / Reinforced side handle / Poignées latérale renforcée                                                         | ●                                                                                                                                                                                                                                |
| Sistema antivuelco en cada bandeja / Anti-overnut system in each drawers / Système anti-renversement dans chaque tiroir              | ●                                                                                                                                                                                                                                |
| Tapa con doble pistón neumático / Double pneumatic absorber equipped lid / Couvercle avec double piston pneumatique                  | ●                                                                                                                                                                                                                                |

## ■ 1056 × 470 × 1110



Sistema antivuelco con botón de seguridad de apertura individual por bandeja  
*Anti-overturn system with individual safety open button in each tray*  
 Système anti-renversement avec bouton de sécurité d'ouverture individuelle par tiroir



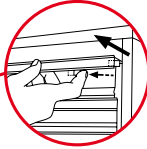
| COD.  | L x W x H (mm)    | Material estructura / Material structure / Structure matériaux | Material ruedas / Wheel material / Matière roues |  |
|-------|-------------------|----------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------|
| 51561 | 1056 x 470 x 1110 | Inox 430                                                       | Inox 304                                         | 95                                                                                  |

INOX

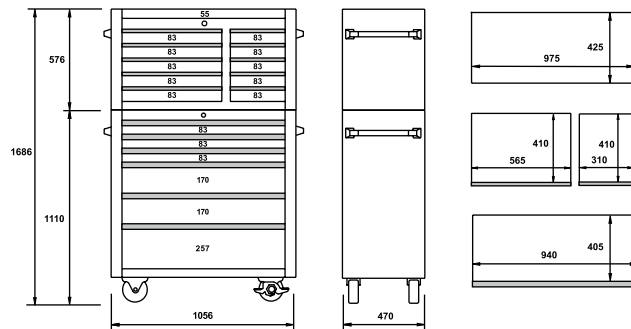
## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                      |                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material* / Material* / Matière*                                                                                                     | Exterior 100% INOX - Interior: Acero pintado - Placa fijación ruedas: Acero / Exterior 100% INOX - Interior: Painted Steel - Wheel fixing plate: Steel / Extérieur 100% INOX - Intérieur: Acier peint - Roues de fixation: Acier |
| Cajones con rodamientos / Ball-bearing slides / Tiroirs à roulement                                                                  | 6                                                                                                                                                                                                                                |
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein | 5" x 1,5"                                                                                                                                                                                                                        |
| Capacidad cajones de altura 83 mm / Capacity in 83 mm height drawers / Capacité des tiroirs de 83 mm de haut                         | 25 Kg                                                                                                                                                                                                                            |
| Capacidad cajones de altura 170 mm / Capacity in 170 mm height drawers / Capacité des tiroirs de 170 mm de haut                      | 30 Kg                                                                                                                                                                                                                            |
| Capacidad cajones de altura 257 mm / Capacity in 257 mm height drawers / Capacité des tiroirs de 257 mm de haut                      | 30 kg                                                                                                                                                                                                                            |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                                | 500 kg                                                                                                                                                                                                                           |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                                           | ●                                                                                                                                                                                                                                |
| Asa lateral reforzada / Reinforced side handle / Poignées latérale renforcée                                                         | ●                                                                                                                                                                                                                                |
| Sistema antivuelco en cada bandeja / Anti-overturn system in each drawers / Système anti-renversement dans chaque tiroir             | ●                                                                                                                                                                                                                                |

■ 1056 × 470 × 1686



Sistema antivuelco con botón de seguridad de apertura individual por bandeja  
Anti-overtum system with individual safety open button in each tray  
Système anti-renversement avec bouton de sécurité d'ouverture individuelle par tiroir

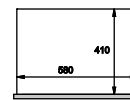
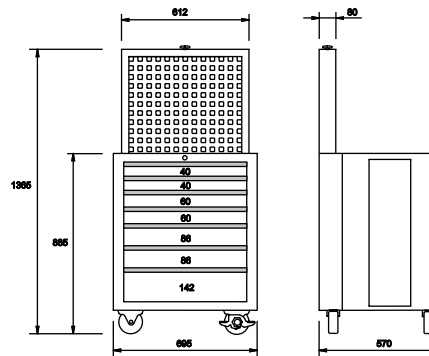







| COD.  | L x W x H (mm)    | Material estructura / Material structure / Structure matériaux | Material ruedas / Wheel material / Matière roues | Kg  |
|-------|-------------------|----------------------------------------------------------------|--------------------------------------------------|-----|
| 51564 | 1056 x 470 x 1686 | Inox 430                                                       | Inox 304                                         | 170 |

INOX

## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                      |                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material* / Material* / Matière*                                                                                                     | Exterior 100% INOX - Interior: Acero pintado - Placa fijación ruedas: Acero / Exterior 100% INOX - Interior: Painted Steel - Wheel fixing plate: Steel / Extérieur 100% INOX - Intérieur: Acier peint - Roues de fixation: Acier |
| Cajones con rodamientos / Ball-bearing slides / Tiroirs à roulement                                                                  | 16                                                                                                                                                                                                                               |
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein | 5" x 1,5"                                                                                                                                                                                                                        |
| Capacidad cajones de altura 55 mm / Capacity in 55 mm height drawers / Capacité des tiroirs de 55 mm de haut                         | 30 kg                                                                                                                                                                                                                            |
| Capacidad cajón 310 x 410 x 83 mm / Drawer capacity 310 x 410 x 83 mm / Capacité du tiroir 310 x 410 x 83 mm                         | 25 kg                                                                                                                                                                                                                            |
| Capacidad cajón 565 x 410 x 83 mm / Drawer capacity 565 x 410 x 83 mm / Capacité du tiroir 565 x 410 x 83 mm                         | 25 kg                                                                                                                                                                                                                            |
| Capacidad cajones de altura 83 mm / Capacity in 83 mm height drawers / Capacité des tiroirs de 83 mm de haut                         | 25 Kg                                                                                                                                                                                                                            |
| Capacidad cajones de altura 170 mm / Capacity in 170 mm height drawers / Capacité des tiroirs de 170 mm de haut                      | 30 Kg                                                                                                                                                                                                                            |
| Capacidad cajones de altura 257 mm / Capacity in 257 mm height drawers / Capacité des tiroirs de 257 mm de haut                      | 30 kg                                                                                                                                                                                                                            |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                                | 700 kg                                                                                                                                                                                                                           |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                                           | ●                                                                                                                                                                                                                                |
| Asa lateral reforzada / Reinforced side handle / Poignées latérale renforcée                                                         | ●                                                                                                                                                                                                                                |
| Sistema antivuelco en cada bandeja / Anti-overtum system in each drawers / Système anti-renversement dans chaque tiroir              | ●                                                                                                                                                                                                                                |

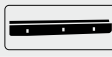



**ARMARIOS-CARROS DE HERRAMIENTAS / ROLLER CABINETS / SERVANTES À ROUES / WERKSTATTWAGEN / CASSETTIERE MOBILI / CARRO DE FERRAMENTAS COM GAVETAS / ТЕЛЕЖКИ НА РОЛИКАХ**
**695 x 570 x 1365**


| COD.  | L x W x H (mm)   |  | Color / Colour / Couleur                                                              |
|-------|------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 51045 | 695 x 570 x 1365 | 60                                                                                |   |
| 51305 |                  |                                                                                   |  |
| 51306 |                  |                                                                                   |  |
| 51307 |                  |                                                                                   |  |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**


|                                                                                                                                                                                     |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 7 cajones con rodamientos / 7 ball-bearing slides / 7 tiroirs à roulement                                                                                                           | ●       |
| Número de agujeros del panel / Number of holes of the panel / Nombre de trous du panneau                                                                                            | 12 x 12 |
| Estructura reforzada / Reinforced heavy duty structure / Structure renforcée                                                                                                        | ●       |
| Sistema de cierre centralizado en el panel y en el carro / Central locking system in the panel and in the cabinet / Système de fermeture centralisée dans le panneau et la servante | ●       |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                                                                               | 500 kg  |
| Capacidad cajones de altura 142 mm / Capacity in 142 mm height drawers / Capacité des tiroirs de 142 mm de haut                                                                     | 50 kg   |
| Capacidad cajones de altura 86 mm / Capacity in 86 mm height drawers / Capacité des tiroirs de 86 mm de haut                                                                        | 40 kg   |
| Capacidad cajones de altura 60 mm / Capacity in 60 mm height drawers / Capacité des tiroirs de 60 mm de haut                                                                        | 30 kg   |
| Capacidad cajones de altura 40 mm / Capacity in 40 mm height drawers / Capacité des tiroirs de 40 mm de haut                                                                        | 30 kg   |
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein                                                | 5" x 2" |
| Panel accionado neumáticamente / Pneumatically operated panel / Panneau actionné pneumatiquement                                                                                    | ●       |

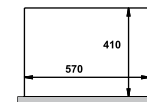
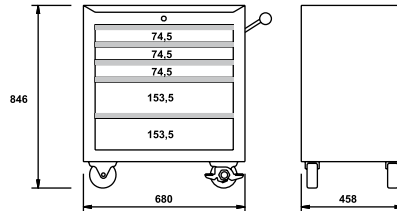
**CAJAS DE PLÁSTICO / PLASTIC BINS / CAISSES EN PLASTIQUE / KUNSTSTOFF BEHÄLTER / CASSETTE DI PLASTICA / CAIXA DE PLÁSTICO / ПЛАСТИКОВЫЕ ЯЩИКИ**






| COD.  | L x W x H (mm)  |  |  | Color / Colour / Couleur                                                             |
|-------|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 90185 | 140 x 105 x 75  | 90184                                                                               | 80                                                                                  |  |
| 90186 | 220 x 140 x 125 |                                                                                     | 180                                                                                 |  |
| 90187 | 270 x 140 x 125 |                                                                                     | 260                                                                                 |                                                                                      |



**SOPORTE PARA CAJAS DE PLÁSTICO / BIN HOLDER FOR PLASTIC BINS / SUPPORT POUR CAISSE EN PLASTIQUE / HALTER FÜR KUNSTOFF BEHÄLTER / SUPPORTO PER CASSETTE DI PLASTICA / SUPORTE PARA CAIXAS PLÁSTICAS / ПОДСТАВКА ДЛЯ ПЛАСТИКОВЫХ ЯЩИКОВ**

| COD.  | L x W x H (mm)  |  |  |
|-------|-----------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 90184 | 440 x 39 x 19,5 | 90185, 90186, 90187                                                               | 260                                                                                |

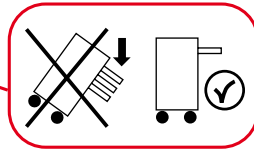

**680 x 458 x 846**


| COD.  | L x W x H (mm)  |  | Color / Colour / Couleur                                                              |
|-------|-----------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 51674 | 680 x 458 x 846 | 43                                                                                  |  |
| 51675 |                 |                                                                                     |  |
| 51676 |                 |                                                                                     |  |
| 51677 |                 |                                                                                     |  |

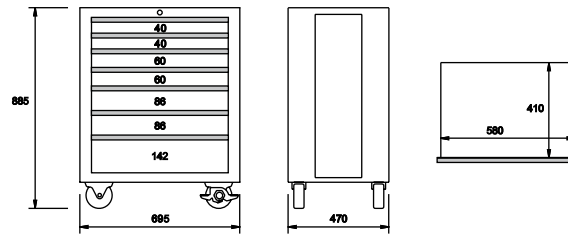
**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                                      |         |
|--------------------------------------------------------------------------------------------------------------------------------------|---------|
| 5 cajones con rodamientos / 5 ball-bearing slides / 5 tiroirs à roulement                                                            | ●       |
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein | 5" x 2" |
| Capacidad cajones de altura 74,5 mm / Capacity in 74,5 mm height drawers / Capacité des tiroirs de 74,5 mm de haut                   | 20 kg   |
| Capacidad cajones de altura 153,5 mm / Capacity in 153,5 mm height drawers / Capacité des tiroirs de 153,5 mm de haut                | 25 kg   |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                                | 300 kg  |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                                           | ●       |
| Estructura reforzada / Reinforced heavy duty structure / Structure renforcée                                                         | ●       |

■ 695 × 470 × 885



Sistema OODO Antivuelco  
*OODO Antioverturn System*  
*(Only One Drawer Open)*  
 Système OODO Anti-renversement



| COD.  | L x W x H (mm)  | Kg | Color / Colour / Couleur |
|-------|-----------------|----|--------------------------|
| 51025 | 695 x 470 x 885 | 50 |                          |
| 51484 |                 |    |                          |
| 51496 |                 |    |                          |
| 51508 |                 |    |                          |

### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

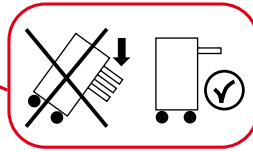
|                                                                                                                                      |         |
|--------------------------------------------------------------------------------------------------------------------------------------|---------|
| 7 cajones con rodamientos / 7 ball-bearing slides / 7 tiroirs à roulement                                                            | ●       |
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein | 5" x 2" |
| Capacidad cajones de altura 40 mm / Capacity in 40 mm height drawers / Capacité des tiroirs de 40 mm de haut                         | 30 kg   |
| Capacidad cajones de altura 60 mm / Capacity in 60 mm height drawers / Capacité des tiroirs de 60 mm de haut                         | 30 kg   |
| Capacidad cajones de altura 86 mm / Capacity in 86 mm height drawers / Capacité des tiroirs de 86 mm de haut                         | 40 kg   |
| Capacidad cajones de altura 142 mm / Capacity in 142 mm height drawers / Capacité des tiroirs de 142 mm de haut                      | 50 kg   |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                                | 500 kg  |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                                           | ●       |
| Estructura reforzada / Reinforced heavy duty structure / Structure renforcée                                                         | ●       |

# EGA Master

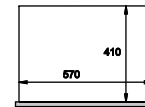
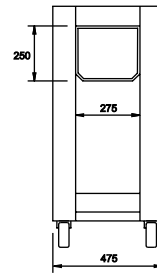
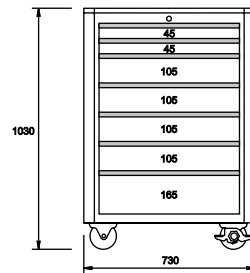
## ART IN INNOVATION







■ 730 × 475 × 1030



Sistema OODO Antivuelco  
OODO Anti-overturn System  
(Only One Drawer Open)  
Système OODO Anti-renversement



Disponible en 4 colores  
Available in 4 colors  
Disponible en 4 couleurs

| COD.  | L x W x H (mm)   | Kg | Color / Colour / Couleur                                                              |
|-------|------------------|----|---------------------------------------------------------------------------------------|
| 51039 | 730 x 475 x 1030 | 50 |   |
| 51486 |                  |    |  |
| 51498 |                  |    |  |
| 51510 |                  |    |  |

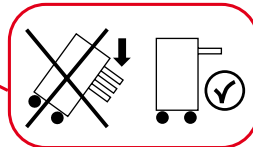
#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                      |         |
|--------------------------------------------------------------------------------------------------------------------------------------|---------|
| 7 cajones con rodamientos / 7 ball-bearing slides / 7 tiroirs à roulement                                                            | ●       |
| Bandeja lateral plegable / Lateral foldable tray / Plateau lateral pliable                                                           | ●       |
| Estructura reforzada / Reinforced heavy duty structure / Structure renforcée                                                         | ●       |
| Sistema antivuelco en cada bandeja / Anti-overturn system in each drawers / Système anti-renversement dans chaque tiroir             | ●       |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                                           | ●       |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                                | 500 kg  |
| Capacidad cajones de altura 165 mm / Capacity in 165 mm height drawers / Capacité des tiroirs de 165 mm de haut                      | 50 kg   |
| Capacidad cajones de altura 105 mm / Capacity in 105 mm height drawers / Capacité des tiroirs de 105 mm de haut                      | 40 kg   |
| Capacidad cajones de altura 45 mm / Capacity in 45 mm height drawers / Capacité des tiroirs de 45 mm de haut                         | 30 kg   |
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein | 5" x 2" |
| Colgador lateral para herramientas / Lateral tool holder / Rangement latéral d'outils                                                | ●       |

■ 730 × 475 × 1500



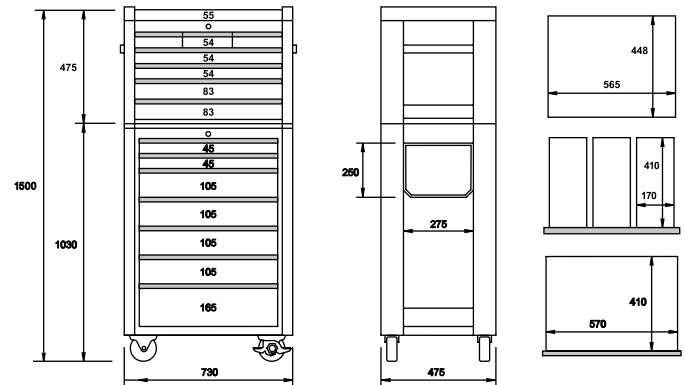
Sistema antivuelco con botón de seguridad de apertura individual por bandeja  
Anti-overflow system with individual safety open button in each tray  
Système anti-renversement avec bouton de sécurité d'ouverture individuelle par tiroir










Sistema OODO Antivuelco  
OODO Antioverturn System  
(Only One Drawer Open)  
Système OODO Anti-renversement



Disponible en 4 colores  
Available in 4 colors  
Disponible en 4 couleurs

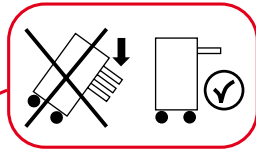


| COD.  | L x W x H (mm)   |  |  |  | Color / Colour / Couleur                                                              |
|-------|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 51117 | 730 x 475 x 1500 | 51039                                                                               | 51075                                                                               | 95                                                                                    |  |
| 51516 |                  | 51486                                                                               | 51490                                                                               |                                                                                       |  |
| 51519 |                  | 51498                                                                               | 51502                                                                               |                                                                                       |  |
| 51522 |                  | 51510                                                                               | 51514                                                                               |                                                                                       |  |

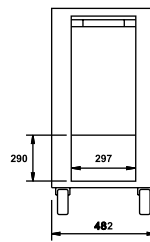
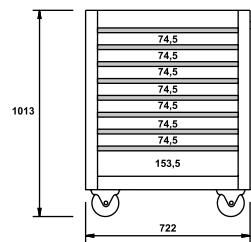
**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                                                  |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Cajones con rodamientos / Ball-bearing slides / Tiroirs à roulement                                                                              | ●       |
| Bandeja lateral plegable / Lateral foldable tray / Plateau lateral pliable                                                                       | ●       |
| Estructura reforzada / Reinforced heavy duty structure / Structure renforcée                                                                     | ●       |
| Sistema antivuelco en cada bandeja / Anti-overflow system in each drawers / Système anti-renversement dans chaque tiroir                         | ●       |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                                                       | ●       |
| Cofre con asas laterales / Chest with side handles / Coffre avec poignées latérales                                                              | ●       |
| Cofre: Capacidad de carga estática total / Chest: Total static weight capacity / Coffre: Capacité totale de charge statique                      | 140 kg  |
| Cofre: Capacidad cajones de 570 x 410 x 54 mm / Chest: Capacity in 570 x 410 x 54 mm drawers / Coffre: Capacité des tiroirs de 570 x 410 x 54 mm | 20 kg   |
| Cofre: Capacidad cajones de 170 x 410 x 54 mm / Chest: Capacity in 170 x 410 x 54 mm drawers / Coffre: Capacité des tiroirs de 170 x 410 x 54 mm | 15 kg   |
| Cofre: Capacidad cajón de altura 83 mm / Chest: Capacity in 83 mm height drawer / Coffre: Capacité du tiroir de 83 mm de haut                    | 25 kg   |
| Cofre: Capacidad cajón de altura 55 mm / Chest: Capacity in 55 mm height drawer / Coffre: Capacité du tiroir de 55 mm de haut                    | 20 kg   |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                                            | 640 kg  |
| Capacidad cajones de altura 165 mm / Capacity in 165 mm height drawers / Capacité des tiroirs de 165 mm de haut                                  | 50 kg   |
| Capacidad cajones de altura 105 mm / Capacity in 105 mm height drawers / Capacité des tiroirs de 105 mm de haut                                  | 40 kg   |
| Capacidad cajones de altura 45 mm / Capacity in 45 mm height drawers / Capacité des tiroirs de 45 mm de haut                                     | 30 kg   |
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein             | 5" x 2" |
| Colgador lateral para herramientas / Lateral tool holder / Rangement latéral d'outils                                                            | ●       |

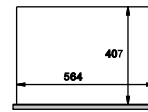
■ 722 × 482 × 1013








Sistema OODO Antivuelco  
OOO Anti-Overturn System  
(Only One Drawer Open)  
Système OODO Anti-renversement



Disponible en 4 colores  
Available in 4 colors  
Disponible en 4 couleurs



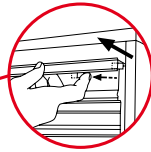
| COD.  | L x W x H (mm)   |  | Color / Colour / Couleur                                                              |
|-------|------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 50977 | 722 x 482 x 1013 | 75                                                                                |    |
| 50978 |                  |                                                                                   |   |
| 50979 |                  |                                                                                   |  |
| 50980 |                  |                                                                                   |  |

#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

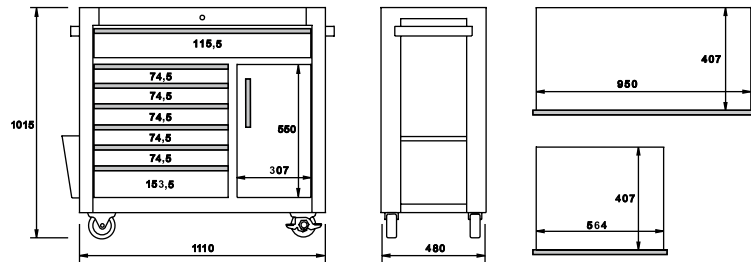
|                                                                                                                                      |         |
|--------------------------------------------------------------------------------------------------------------------------------------|---------|
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein | 5" x 2" |
| Sistema antivuelco en cada bandeja / Anti-overturn system in each drawers / Système anti-renversement dans chaque tiroir             | ●       |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                                           | ●       |
| Capacidad cajon 564 x 407 x 153,5 mm / Drawer capacity 564 x 407 x 153,5 mm / Capacité du tiroir 564 x 407 x 153,5 mm                | 30 Kg   |
| Capacidad cajones 564 x 407 x 74,5 mm / Drawer capacity 564 x 407 x 74,5 mm / Capacité des tiroirs de 564 x 407 x 74,5 mm            | 25 Kg   |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                                | 500 kg  |
| Cajones con rodamientos / Ball-bearing slides / Tiroirs à roulement                                                                  | ●       |
| Estructura reforzada / Reinforced heavy duty structure / Structure renforcée                                                         | ●       |
| Papelera / Trash tray / Poubelle                                                                                                     | ●       |





# BE SAFE...BE EFFICIENT

## ■ 1110 × 480 × 1015



Sistema antivuelco con botón de seguridad de apertura individual por bandeja  
Anti-overtum system with individual safety open button in each tray  
Système anti-renversement avec bouton de sécurité d'ouverture individuelle par tiroir



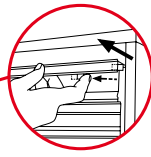
| COD.  | L x W x H (mm)    | Kg  | Color / Colour / Couleur                                                              |
|-------|-------------------|-----|---------------------------------------------------------------------------------------|
| 50950 | 1110 x 480 x 1015 | 100 |    |
| 50951 |                   |     |  |
| 50952 |                   |     |  |
| 50953 |                   |     |  |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

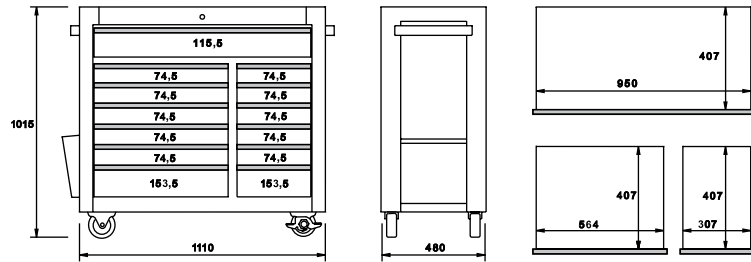
|                                                                                                                                      |         |
|--------------------------------------------------------------------------------------------------------------------------------------|---------|
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein | 5" x 2" |
| Sistema antivuelco en cada bandeja / Anti-overtum system in each drawers / Système anti-renversement dans chaque tiroir              | ●       |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                                           | ●       |
| Capacidad cajón 950 x 407 x 115,5 mm / Drawer capacity 950 x 407 x 115,5 mm / Capacité du tiroir 950 x 407 x 115,5 mm                | 30 kg   |
| Capacidad cajón 564 x 407 x 153,5 mm / Drawer capacity 564 x 407 x 153,5 mm / Capacité du tiroir 564 x 407 x 153,5 mm                | 30 Kg   |
| Capacidad cajones 564 x 407 x 74,5 mm / Drawer capacity 564 x 407 x 74,5 mm / Capacité des tiroirs de 564 x 407 x 74,5 mm            | 25 Kg   |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                                | 800 kg  |
| 7 cajones y 1 armario / 7 drawers and 1 closet / 7 tiroirs et une armoire                                                            | ●       |
| Estructura reforzada / Reinforced heavy duty structure / Structure renforcée                                                         | ●       |
| Papelera / Trash tray / Poubelle                                                                                                     | ●       |





# EGA Master

## ART IN INNOVATION



Sistema antivuelco con botón de seguridad de apertura individual por bandeja  
Anti-overturn system with individual safety open button in each tray  
Système anti-renversement avec bouton de sécurité d'ouverture individuelle par tiroir



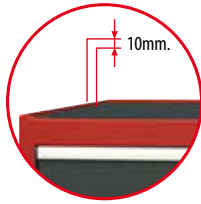
| COD.  | L x W x H (mm)    | Kg  | Color / Colour / Couleur                                                              |
|-------|-------------------|-----|---------------------------------------------------------------------------------------|
| 50954 | 1110 x 480 x 1015 | 100 |    |
| 50955 |                   |     |   |
| 50956 |                   |     |  |
| 50957 |                   |     |  |

#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

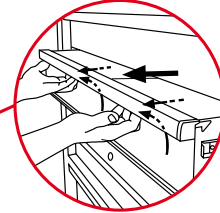
|                                                                                                                                      |         |
|--------------------------------------------------------------------------------------------------------------------------------------|---------|
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein | 5" x 2" |
| Sistema antivuelco en cada bandeja / Anti-overturn system in each drawers / Système anti-renversement dans chaque tiroir             | ●       |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                                           | ●       |
| Capacidad cajón 950 x 407 x 115,5 mm / Drawer capacity 950 x 407 x 115,5 mm / Capacité du tiroir 950 x 407 x 115,5 mm                | 30 kg   |
| Capacidad cajon 564 x 407 x 153,5 mm / Drawer capacity 564 x 407 x 153,5 mm / Capacité du tiroir 564 x 407 x 153,5 mm                | 30 Kg   |
| Capacidad cajones 564 x 407 x 74,5 mm / Drawer capacity 564 x 407 x 74,5 mm / Capacité des tiroirs de 564 x 407 x 74,5 mm            | 25 Kg   |
| Capacidad cajon 307 x 407 x 153,5 mm / Drawer capacity 307 x 407 x 153,5 mm / Capacité du tiroir 307 x 407 x 153,5 mm                | 25 Kg   |
| Capacidad cajon 307 x 407 x 74,5 mm / Drawer capacity 307 x 407 x 74,5 mm / Capacité du tiroir 307 x 407 x 74,5 mm                   | 20 Kg   |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                                | 800 kg  |
| 13 cajones / 13 drawers / 13 tiroirs                                                                                                 | ●       |
| Estructura reforzada / Reinforced heavy duty structure / Structure renforcée                                                         | ●       |
| Papelera / Trash tray / Poubelle                                                                                                     | ●       |

# BE SAFE...BE EFFICIENT

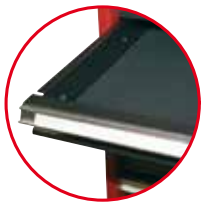
### ■ 1434 x 560 x 1075



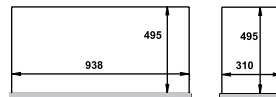
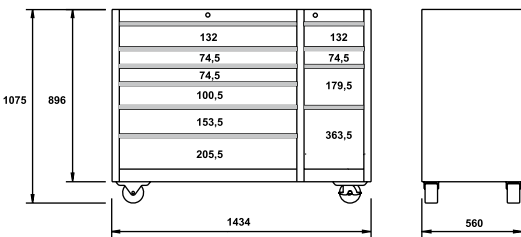
Zona de acople de seguridad para evitar que el cofre superior se caiga  
 Safety coupling area to prevent the upper chest to fall  
 Zone d'assemblage de sécurité pour éviter que le coffre supérieur tombe



Sistema antivuelco con barra longitudinal de seguridad de apertura individual por bandeja  
 Anti-overturn system with individual safety open longitudinal bar in each tray  
 Système anti-renversement avec barre longitudinale de sécurité d'ouverture individuelle par tiroir



Protección de espuma EVA en cajones  
 Protecting EVA foam in drawer  
 Protection en mousse EVA dans les tiroirs



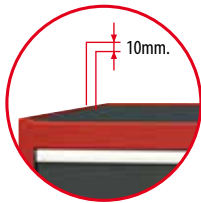
| COD.  | L x W x H (mm)    | Kg  | Color / Colour / Couleur |
|-------|-------------------|-----|--------------------------|
| 57060 | 1434 x 560 x 1075 | 175 |                          |
| 57048 |                   |     |                          |
| 57088 |                   |     |                          |
| 57068 |                   |     |                          |

### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

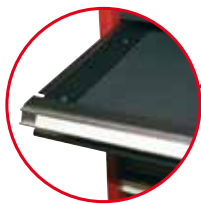
|                                                                                                                                      |         |
|--------------------------------------------------------------------------------------------------------------------------------------|---------|
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein | 6" x 2" |
| Sistema antivuelco en cada bandeja / Anti-overturn system in each drawers / Système anti-renversement dans chaque tiroir             | ●       |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                                           | ●       |
| Capacidad cajón 938 x 495 x 205,5 mm / Drawer capacity 938 x 495 x 205,5 mm / Capacité du tiroir 938 x 495 x 205,5 mm                | 40 kg   |
| Capacidad cajón 938 x 495 x 153,5 mm / Drawer capacity 938 x 495 x 153,5 mm / Capacité du tiroir 938 x 495 x 153,5 mm                | 35 kg   |
| Capacidad cajón 938 x 495 x 132 mm / Drawer capacity 938 x 495 x 132 mm / Capacité du tiroir 938 x 495 x 132 mm                      | 30 Kg   |
| Capacidad cajón 938 x 495 x 100,5 mm / Drawer capacity 938 x 495 x 100,5 mm / Capacité du tiroir 938 x 495 x 100,5 mm                | 25 kg   |
| Capacidad cajones 938 x 495 x 74,5 mm / Drawer capacity 938 x 495 x 74,5 mm / Capacité des tiroirs de 938 x 495 x 74,5 mm            | 20 Kg   |
| Capacidad cajón 310 x 495 x 363,5 mm / Drawer capacity 310 x 495 x 363,5 mm / Capacité du tiroir 310 x 495 x 363,5 mm                | 40 Kg   |
| Capacidad cajón 310 x 495 x 179,5 mm / Drawer capacity 310 x 495 x 179,5 mm / Capacité du tiroir 310 x 495 x 179,5 mm                | 30 Kg   |
| Capacidad cajón 310 x 495 x 132 mm / Drawer capacity 310 x 495 x 132 mm / Capacité du tiroir 310 x 495 x 132 mm                      | 25 Kg   |
| Capacidad cajón 310 x 495 x 74,5 mm / Drawer capacity 310 x 495 x 74,5 mm / Capacité du tiroir 310 x 495 x 74,5 mm                   | 20 Kg   |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                                | 400 kg  |
| 10 cajones / 10 drawers / 10 tiroirs                                                                                                 | ●       |
| Estructura reforzada / Reinforced heavy duty structure / Structure renforcée                                                         | ●       |
| Equipable con rueda motorizada 51648 / Equippable with 51648 driving kit / Équipé d'une roue motorisée 51648                         | ●       |

■ 1434 × 560 × 1720

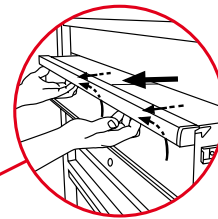
Zona de acople de seguridad para evitar que el cofre superior se caiga  
*Safety coupling area to prevent the upper chest to fall*  
 Zone d'assemblage de sécurité pour éviter que le coffre supérieur tombe



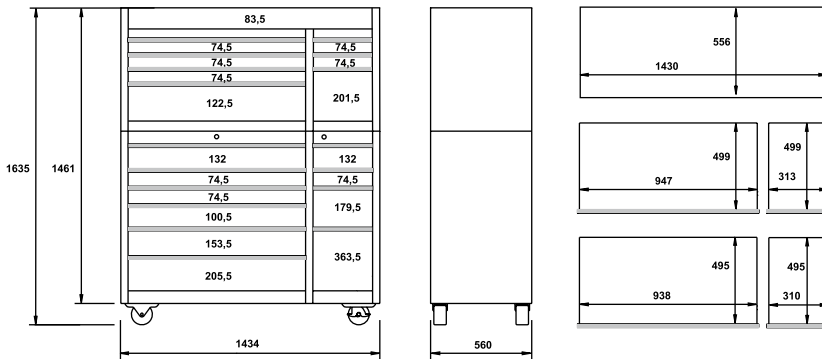
Protección de espuma EVA en cajones  
*Protecting EVA foam in drawer*  
 Protection en mousse EVA dans les tiroirs



Sistema antivuelco con barra longitudinal de seguridad de apertura individual por bandeja  
*Anti-overturn system with individual safety open longitudinal bar in each tray*  
 Système anti-renversement avec barre longitudinale de sécurité d'ouverture individuelle par tiroir



**6"X2"**  
**PARA MÁXIMA ESTABILIDAD**  
**FOR THE BEST STABILITY**  
**POUR UNE STABILITÉ MAXIMALE**



| COD.  | L x W x H (mm)    |       |       |     | Color / Colour / Couleur |
|-------|-------------------|-------|-------|-----|--------------------------|
| 51074 | 1434 x 560 x 1720 | 57060 | 57061 | 290 |                          |
| 51517 |                   | 57048 | 57049 |     |                          |
| 51520 |                   | 57088 | 57089 |     |                          |
| 51523 |                   | 57068 | 57069 |     |                          |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                                      |         |
|--------------------------------------------------------------------------------------------------------------------------------------|---------|
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein | 6" x 2" |
| Sistema antivuelco en cada bandeja / Anti-overflow system in each drawers / Système anti-renversement dans chaque tiroir             | ●       |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                                           | ●       |
| Capacidad cajón 1430 x 556 x 83,5 mm / Drawer capacity 1430 x 556 x 83,5 mm / Capacité du tiroir 1430 x 556 x 83,5 mm                | 35 Kg   |
| Capacidad cajón 947 x 499 x 122,5 mm / Drawer capacity 947 x 499 x 122,5 mm / Capacité du tiroir 947 x 499 x 122,5 mm                | 40 kg   |
| Capacidad cajones 947 x 499 x 74,5 mm / Drawer capacity 947 x 499 x 74,5 mm / Capacité des tiroirs de 947 x 499 x 74,5 mm            | 30 kg   |
| Capacidad cajón 938 x 495 x 205,5 mm / Drawer capacity 938 x 495 x 205,5 mm / Capacité du tiroir 938 x 495 x 205,5 mm                | 45 Kg   |
| Capacidad cajón 938 x 495 x 153,5 mm / Drawer capacity 938 x 495 x 153,5 mm / Capacité du tiroir 938 x 495 x 153,5 mm                | 40 Kg   |
| Capacidad cajón 938 x 495 x 132 mm / Drawer capacity 938 x 495 x 132 mm / Capacité du tiroir 938 x 495 x 132 mm                      | 35 Kg   |
| Capacidad cajón 938 x 495 x 100,5 mm / Drawer capacity 938 x 495 x 100,5 mm / Capacité du tiroir 938 x 495 x 100,5 mm                | 30 Kg   |
| Capacidad cajones 938 x 495 x 74,5 mm / Drawer capacity 938 x 495 x 74,5 mm / Capacité des tiroirs de 938 x 495 x 74,5 mm            | 20 Kg   |
| Capacidad cajón 313 x 499 x 201,5 mm / Drawer capacity 313 x 499 x 201,5 mm / Capacité du tiroir 313 x 499 x 201,5 mm                | 35 Kg   |
| Capacidad cajones 313 x 499 x 74,5 mm / Drawer capacity 313 x 499 x 74,5 mm / Capacité des tiroirs de 313 x 499 x 74,5 mm            | 20 Kg   |
| Capacidad cajón 310 x 495 x 363,5 mm / Drawer capacity 310 x 495 x 363,5 mm / Capacité du tiroir 310 x 495 x 363,5 mm                | 45 Kg   |
| Capacidad cajón 310 x 495 x 179,5 mm / Drawer capacity 310 x 495 x 179,5 mm / Capacité du tiroir 310 x 495 x 179,5 mm                | 30 Kg   |
| Capacidad cajón 310 x 495 x 132 mm / Drawer capacity 310 x 495 x 132 mm / Capacité du tiroir 310 x 495 x 132 mm                      | 25 Kg   |
| Capacidad cajón 310 x 495 x 74,5 mm / Drawer capacity 310 x 495 x 74,5 mm / Capacité du tiroir 310 x 495 x 74,5 mm                   | 20 Kg   |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                                | 660 kg  |
| 17 cajones con rodamientos / 17 drawer with ball bearings / 17 tiroirs à roulement                                                   | ●       |
| Estructura reforzada / Reinforced heavy duty structure / Structure renforcée                                                         | ●       |
| Equipable con rueda motorizada 51648 / equippable with 51648 driving kit / Équipé d'une roue motorisée 51648                         | ●       |

**RUEDA MOTORIZADA / MOTORIZED WHEEL / ROUE MOTORISÉE / MOTORISIERTES RAD / RUOTA MOTORIZZATA / RODA MOTORIZADA / ПРИВОДНОЕ КОЛЕСО**
**KIT DE RUEDA MOTORIZADA / MOTORIZED WHEEL KIT / KIT DE ROUE MOTORISÉE / MOTORISIERTES RADSATZ / KIT RUOTA MOTORIZZATA / KIT DE RODA MOTORIZADA / КОМПЛЕКТ ПРИВОДНОГО КОЛЕСА**

| COD.         | V   | L x W x H (mm)  | Kg  |
|--------------|-----|-----------------|-----|
| <b>87997</b> | 24V | 280 x 185 x 140 | 6,0 |

12M


**EQUIPADO CON / EQUIPED WITH / EQUIPE**

Actuador / Actuator / Actionneur

Unidad de control / Control box / Unité de contrôle

Cargador / Charger / Chargeur

Mando / Handle / Commande

Cable / Cable / Câble

Batería / Battery / Batterie

**REPUESTOS / SPARE PARTS / RECHANGES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

| COD.         | Descripción / Description / Description | V   | L x W x H (mm) | Kg  |
|--------------|-----------------------------------------|-----|----------------|-----|
| <b>87996</b> | Batería / Battery / Batterie            | 24V | 380 x 95 x 85  | 2,5 |


**KIT DE RUEDA MOTORIZADA (MONTAJE EN CARRO INCLUIDO) / MOTORIZED WHEEL KIT (INCLUDED ASSEMBLY IN CABINET) / KIT DE ROUE MOTORISÉE (MONTAGE SUR SERVANTE INCLUS) / MOTORISIERTES RAD-KIT (MONTAGE IM SCHRANK ENTHALTEN) / KIT RUOTA MOTORIZZATA (MONTAGGIO SU CARRELLO INCLUSO) / KIT DE RODA MOTORIZADA (MONTAGEM EM CARRO INCLUÍDA) / КОМПЛЕКТ ПРИВОДНОГО КОЛЕСА (МОНТАЖ КОЛЕСА К ТЕЛЕЖКЕ ВКЛЮЧЁН)**

| COD.         | PCS. | Kg  |
|--------------|------|-----|
| <b>51648</b> | 2    | 9,5 |

12M | Montaje en carro incluido / Included assembly in cabinet / Montage sur servante inclus

| PCS. | Composición / Composition / Composition | Descripción / Description / Description                                                 |
|------|-----------------------------------------|-----------------------------------------------------------------------------------------|
| 1    | 87997                                   | Conjunto rueda motorizada / Motorized wheel kit                                         |
|      | 87998                                   | Soporte batería litio rueda motorizada / Lithium-ion battery holder for motorized wheel |







**ESTANTERIAS MÓVILES CON MÉNSULAS / TROLLEYS WITH SHELVES / RAYONNAGES MOBILES AVEC ÉTAGÈRES / MOBILE REGALE MIT KONSOLEN / SCAFFALI MOBILI CON MENSOLE / ESTANTE MÓVEL COM PRATELEIRAS / ТЕЛЕЖКА С ПОЛКАМИ**
**COMPONENTES / COMPONENTS / COMPOSANTS / KOMPONENTEN / COMPONENTI / COMPONENTES / КОМПОНЕНТЫ**
**ESTRUCTURAS / FRAMES / STRUCTURES / GESTELL / STRUTTURA / ESTRUTURA / ТЕЛЕЖКА С РАМОЙ**

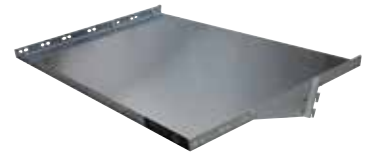
| COD.  | L x W x H (mm) | Kg - MAX<br> | Kg<br> |
|-------|----------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 50093 | 725x613x1430   | 300                                                                                           | 25                                                                                       |
| 50088 | 1023x613x1430  |                                                                                               | 28                                                                                       |




**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein


**MÉNSULAS / SHELVES / ÉTAGÈRES / KONSOLEN / MENSOLE / PRATELEIRAS / ПОЛКИ**

| COD.  | L x W x H (mm) | Kg - MAX<br> | Kg<br> | Válido para / Valid for / Valable pour |
|-------|----------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------|
| 50095 | 657x220x30     | 50                                                                                            | 2,3                                                                                     | 50093                                  |
| 50094 | 657x420x30     |                                                                                               | 3,4                                                                                     |                                        |
| 50090 | 955x320x30     |                                                                                               | 4,0                                                                                     |                                        |
| 50089 | 955x600x30     |                                                                                               | 7,0                                                                                     |                                        |


**COMBINACIONES / COMBINATIONS / COMBINAISONS / KOMBINATIONEN / COMBINAZIONI / COMBINAÇÕES / КОМПЛЕКТЫ**
**725 MM**
**PROFUNDIDAD DE 220 MM / 220 MM DEPTH / PROFONDEUR DE 220 MM / 220 MM TIEFE / PROFONDITÀ DI 220 MM / PROFUNDIDADE DE 220 MM / ГЛУБИНА 220 MM**

| COD.  | L x W x H (mm) |  |  | Kg<br> |
|-------|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 50140 | 725x613x1430   | 2 x 50095                                                                           | 50093                                                                               | 29                                                                                         |
| 50141 |                | 3 x 50095                                                                           |                                                                                     | 32                                                                                         |
| 50142 |                | 4 x 50095                                                                           |                                                                                     | 34                                                                                         |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**




2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein

Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique

4"

300 kg


**PROFUNDIDAD DE 420 MM / 420 MM DEPTH / PROFONDEUR DE 420 MM / 420 MM TIEFE / PROFONDITÀ DI 420 MM / PROFUNDIDADE DE 420 MM / ГЛУБИНА 420 MM**

| COD.  | L x W x H (mm) |  |  | Kg<br> |
|-------|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 50143 | 725x613x1430   | 2 x 50094                                                                           | 50093                                                                               | 32                                                                                         |
| 50144 |                | 3 x 50094                                                                           |                                                                                     | 35                                                                                         |
| 50145 |                | 4 x 50094                                                                           |                                                                                     | 38                                                                                         |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein

Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique




4"

300 kg



## ■ 1023 MM

## ■ PROFUNDIDAD DE 320 MM / 320 MM DEPTH / PROFONDEUR DE 320 MM / 320 MM TIEFE / PROFONDITÀ DI 320 MM / PROFUNDIDADE DE 320 MM / ГЛУБИНА 320 MM




| COD.  | L x W x H (mm) |  |  |  |
|-------|----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 50149 |                | 2 x 50090                                                                         |                                                                                   | 37                                                                                 |
| 50150 | 1023x613x1430  | 3 x 50090                                                                         | 50088                                                                             | 41                                                                                 |
| 50151 |                | 4 x 50090                                                                         |                                                                                   | 45                                                                                 |



## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                      |        |
|--------------------------------------------------------------------------------------------------------------------------------------|--------|
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein | 4"     |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                                | 300 kg |

## ■ PROFUNDIDAD DE 600 MM / 600 MM DEPTH / PROFONDEUR DE 600 MM / 600 MM TIEFE / PROFONDITÀ DI 600 MM / PROFUNDIDADE DE 600 MM / ГЛУБИНА 600 MM

| COD.  | L x W x H (mm) |  |  |  |
|-------|----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 50152 |                | 2 x 50089                                                                         |                                                                                   | 42                                                                                 |
| 50153 | 1023x613x1430  | 3 x 50089                                                                         | 50088                                                                             | 49                                                                                 |
| 50154 |                | 4 x 50089                                                                         |                                                                                   | 55                                                                                 |



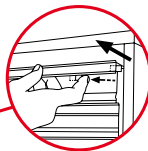
## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                      |        |
|--------------------------------------------------------------------------------------------------------------------------------------|--------|
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein | 4"     |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                                | 300 kg |

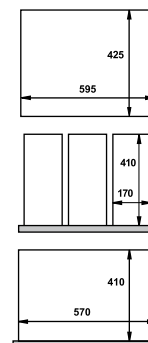
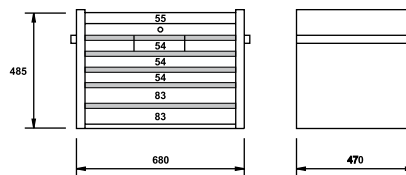
## ■ ARCONES Y COFRES / JOBSITE BOXES AND CHESTS / COFFRES MÉTALLIQUES / WERKZEUGKISTEN AUS STAHL / CASSETTIERE PORTATILE IN METALLO / CAIXAS E BAÚS PARA FERRAMENTA / ЯЩИКИ И СУНДУКИ

## ■ COFRES PORTAHERRAMIENTAS DE SUPERFICIES INOX\* / INOX SURFACE TOOL CHEST\* / COFFRE À TIROIRS AVEC SURFACE INOX\* / WERKSTATTKASTEN MIT INOX OBERFLÄCHE\* / CASSETTI PORTAUTENSILI DI SUPERFICI INOX\* / BAÚ PORTA-FERRAMENTAS DE SUPERFÍCIE INOX\* / ПОРТАТИВНЫЕ ЯЩИКИ С ПОКРЫТИЕМ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ\*

## ■ 680 x 470 x 485



Sistema antivuelco con botón de seguridad de apertura individual por bandeja  
 Anti-ouvertum system with individual safety open button in each tray  
 Système anti-renversement avec bouton de sécurité d'ouverture individuelle par tiroir



| COD.  | L x W x H (mm)  | Material estructura / Material structure / Structure matériaux |  |
|-------|-----------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 51560 | 680 x 470 x 485 | Inox 430                                                       | 46                                                                                    |

INOX

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

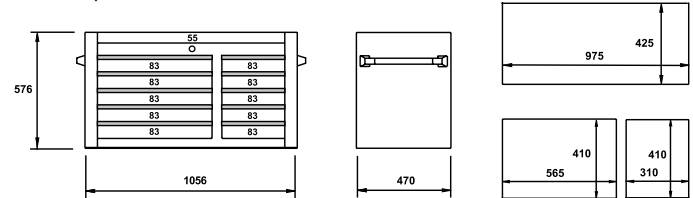
|                                                                                                                          |                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Material* / Material* / Matière*                                                                                         | Exterior: 100% INOX – Interior: Acero pintado / Exterior 100% INOX – Interior: Painted Steel / Extérieur 100% INOX - Intérieur: Acier peint |
| Cajones con rodamientos / Ball-bearing slides / Tiroirs à roulement                                                      | 7                                                                                                                                           |
| Capacidad cajones de altura 55 mm / Capacity in 55 mm height drawers / Capacité des tiroirs de 55 mm de haut             | 20 kg                                                                                                                                       |
| Capacidad cajones 170 x 410 x 54 mm / Drawer capacity 170 x 410 x 54 mm / Capacité des tiroirs de 170 x 410 x 54 mm      | 15 kg                                                                                                                                       |
| Capacidad cajones 570 x 410 x 54 mm / Drawer capacity 570 x 410 x 54 mm / Capacité des tiroirs de 570 x 410 x 54 mm      | 25 kg                                                                                                                                       |
| Capacidad cajones de altura 83 mm / Capacity in 83 mm height drawers / Capacité des tiroirs de 83 mm de haut             | 25 kg                                                                                                                                       |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                    | 150 kg                                                                                                                                      |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                               | ●                                                                                                                                           |
| Asa lateral reforzada / Reinforced side handle / Poignées latérale renforcée                                             | ●                                                                                                                                           |
| Sistema antivuelco en cada bandeja / Anti-overturn system in each drawers / Système anti-renversement dans chaque tiroir | ●                                                                                                                                           |
| Tapa con doble pistón neumático / Double pneumatic absorber equipped lid / Couvercle avec double piston pneumatique      | ●                                                                                                                                           |

**1056 x 470 x 576**


Sistema antivuelco con botón de seguridad de apertura individual por bandeja

Anti-overturn system with individual safety open button in each tray

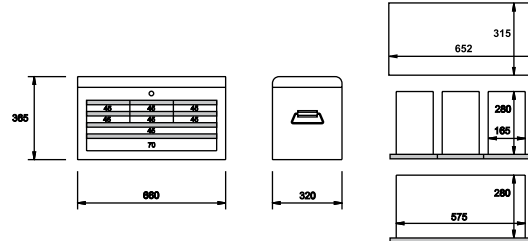
Système anti-renversement avec bouton de sécurité d'ouverture individuelle par tiroir



| COD.  | L x W x H (mm)   | Material estructura / Material structure / Structure matériaux |  Kg |
|-------|------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 51562 | 1056 x 470 x 576 | Inox 430                                                       | 95                                                                                       |


**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

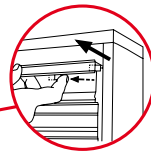
|                                                                                                                          |                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Material* / Material* / Matière*                                                                                         | Exterior: 100% INOX – Interior: Acero pintado / Exterior 100% INOX – Interior: Painted Steel / Extérieur 100% INOX - Intérieur: Acier peint |
| Cajones con rodamientos / Ball-bearing slides / Tiroirs à roulement                                                      | 10                                                                                                                                          |
| Capacidad cajones de altura 55 mm / Capacity in 55 mm height drawers / Capacité des tiroirs de 55 mm de haut             | 30 kg                                                                                                                                       |
| Capacidad cajón 310 x 410 x 83 mm / Drawer capacity 310 x 410 x 83 mm / Capacité du tiroir 310 x 410 x 83 mm             | 25 kg                                                                                                                                       |
| Capacidad cajón 565 x 410 x 83 mm / Drawer capacity 565 x 410 x 83 mm / Capacité du tiroir 565 x 410 x 83 mm             | 25 kg                                                                                                                                       |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                    | 200 kg                                                                                                                                      |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                               | ●                                                                                                                                           |
| Asa lateral reforzada / Reinforced side handle / Poignées latérale renforcée                                             | ●                                                                                                                                           |
| Sistema antivuelco en cada bandeja / Anti-overturn system in each drawers / Système anti-renversement dans chaque tiroir | ●                                                                                                                                           |

**COFRE PORTAHERRAMIENTAS / TOOL CHEST / COFFRE À TIROIRS / WERKSTATT KASTEN MIT SCHUBLADEN / CASSETTIERE PORTAUTENSILI / BAÚS DE FERRAMENTAS / ЯЩИКИ ДЛЯ ИНСТРУМЕНТА**
**660 × 320 × 365**


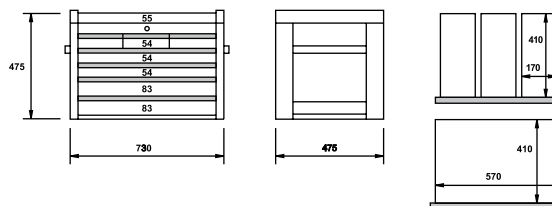
| COD.  | L x W x H (mm)  | Kg | Color / Colour / Couleur |
|-------|-----------------|----|--------------------------|
| 51011 | 660 x 320 x 365 | 24 |                          |
| 51480 |                 |    |                          |
| 51492 |                 |    |                          |
| 51504 |                 |    |                          |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                |       |
|----------------------------------------------------------------------------------------------------------------|-------|
| Cajones con rodamientos / Ball-bearing slides / Tiroirs à roulement                                            | ●     |
| Cerradura con llave / Key lock / Serrure avec clé                                                              | ●     |
| Capacidad cajon 575 x 280 x 70 mm / Drawer capacity 575 x 280 x 70 mm / Capacité du tiroir 575 x 280 x 70 mm   | 20 Kg |
| Capacidad cajon 575 x 280 x 45 mm / Drawer capacity 575 x 280 x 45 mm / Capacité du tiroir 575 x 280 x 45 mm   | 10 Kg |
| Capacidad cajones 165 x 280 x 45 mm / Drawer capacity 165 x 280 x 45 mm / Capacité du tiroir 165 x 280 x 45 mm | 9 Kg  |
| Asas laterales / Lateral handles / Anses latérales                                                             | ●     |

**730 × 475 × 475**


Sistema antivuelco con botón de seguridad de apertura individual por bandeja  
Anti-ouvertum system with individual safety open button  
in each tray  
Système anti-renversement avec bouton de sécurité  
d'ouverture individuelle par tiroir

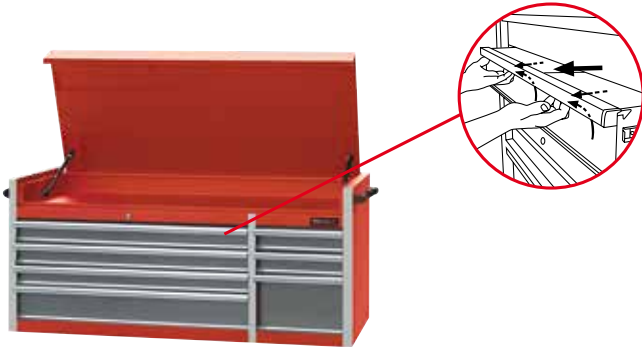


| COD.  | L x W x H (mm)  | Kg | Color / Colour / Couleur |
|-------|-----------------|----|--------------------------|
| 51075 | 730 x 475 x 475 | 47 |                          |
| 51490 |                 |    |                          |
| 51502 |                 |    |                          |
| 51514 |                 |    |                          |

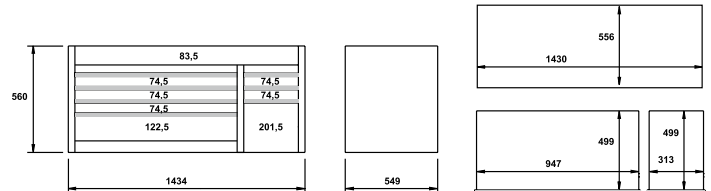
**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**





|                                                                                                                          |        |
|--------------------------------------------------------------------------------------------------------------------------|--------|
| 7 cajones con rodamientos / 7 ball-bearing slides / 7 tiroirs à roulement                                                | ●      |
| Capacidad cajones de altura 83 mm / Capacity in 83 mm height drawers / Capacité des tiroirs de 83 mm de haut             | 25 kg  |
| Capacidad cajones de altura 55 mm / Capacity in 55 mm height drawers / Capacité des tiroirs de 55 mm de haut             | 20 kg  |
| Capacidad cajones 570 x 410 x 54 mm / Drawer capacity 570 x 410 x 54 mm / Capacité des tiroirs de 570 x 410 x 54 mm      | 20 kg  |
| Capacidad cajones 170 x 410 x 54 mm / Drawer capacity 170 x 410 x 54 mm / Capacité des tiroirs de 170 x 410 x 54 mm      | 15 kg  |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                    | 140 kg |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                               | ●      |
| Sistema antivuelco en cada bandeja / Anti-ouvertum system in each drawers / Système anti-renversement dans chaque tiroir | ●      |
| Estructura reforzada / Reinforced heavy duty structure / Structure renforcée                                             | ●      |
| Asas laterales / Lateral handles / Anses latérales                                                                       | ●      |

## ■ 1434 x 560 x 549



Sistema antivuelco con barra longitudinal de seguridad de apertura individual por bandeja  
*Anti-overturn system with individual safety open longitudinal bar in each tray*  
 Système anti-renversement avec barre longitudinale de sécurité d'ouverture individuelle par tiroir

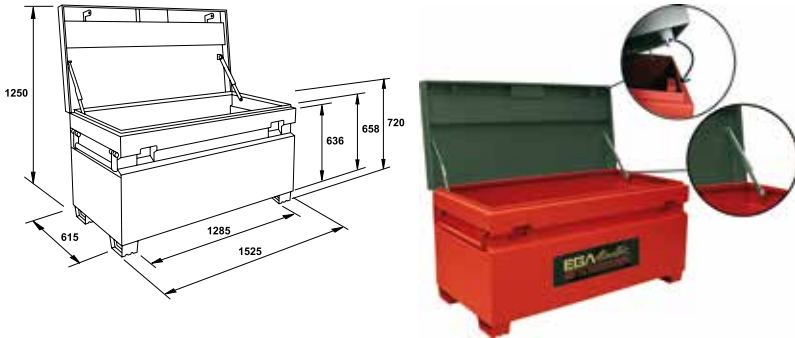


| COD.  | L x W x H (mm)   | Kg  | Color / Colour / Couleur                                                            |
|-------|------------------|-----|-------------------------------------------------------------------------------------|
| 57061 | 1434 x 560 x 549 | 130 |  |
| 57049 |                  |     |  |
| 57089 |                  |     |  |
| 57069 |                  |     |  |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                           |        |
|---------------------------------------------------------------------------------------------------------------------------|--------|
| 7 cajones con rodamientos / 7 ball-bearing slides / 7 tiroirs à roulement                                                 | ●      |
| Estructura reforzada / Reinforced heavy duty structure / Structure renforcée                                              | ●      |
| Sistema antivuelco en cada bandeja / Anti-overturn system in each drawers / Système anti-renversement dans chaque tiroir  | ●      |
| Cerradura con llave / Key lock / Serrure avec clé                                                                         | ●      |
| Tapa con doble pistón neumático / Double pneumatic absorber equipped lid / Couvercle avec double piston pneumatique       | ●      |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                     | 260 kg |
| Capacidad cajones 947 x 499 x 74,5 mm / Drawer capacity 947 x 499 x 74,5 mm / Capacité des tiroirs de 947 x 499 x 74,5 mm | 30 kg  |
| Capacidad cajón 947 x 499 x 122,5 mm / Drawer capacity 947 x 499 x 122,5 mm / Capacité du tiroir 947 x 499 x 122,5 mm     | 40 kg  |
| Capacidad cajones 313 x 499 x 74,5 mm / Drawer capacity 313 x 499 x 74,5 mm / Capacité des tiroirs de 313 x 499 x 74,5 mm | 25 kg  |
| Capacidad cajón 313 x 499 x 201,5 mm / Drawer capacity 313 x 499 x 201,5 mm / Capacité du tiroir 313 x 499 x 201,5 mm     | 40 kg  |
| Asas laterales / Lateral handles / Anses latérales                                                                        | ●      |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                                | ●      |

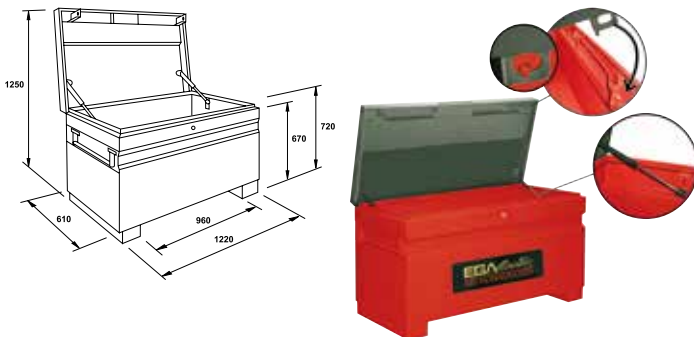


**ARCONES METÁLICOS / METALLIC JOBSITE BOXES / COFFRES METALLIQUES / METALLARBEITSCHRÄNKE / CASSONI METALLICI / BAÚS METÁLICOS / МЕТАЛЛИЧЕСКИЕ ЯЩИКИ ДЛЯ ИНСТРУМЕНТОВ**
**1525 × 615 × 720**


| COD.  | L x W x H (mm)   | Espesor general (mm) / General thickness (mm) / Épaisseur générale (mm) | Espesor base (mm) / Base thickness (mm) / Épaisseur de base (mm) | Kg - MAX | Kg |
|-------|------------------|-------------------------------------------------------------------------|------------------------------------------------------------------|----------|----|
| 50989 | 1525 x 615 x 720 | 1,5                                                                     | 2,5                                                              | 300      | 75 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

- Patatas especialmente diseñadas para transpalet / Prepared to be used with pallet truck / Coffres gerbables
- Fabricado en acero de alta calidad / Manufactured in high quality steel / Fabriqué en acier de haute qualité
- Cierre para candado / Prepared for padlock / Fermeture cadenas
- Asas laterales / Lateral handles / Anses latérales


**1220 × 610 × 720**


| COD.  | L x W x H (mm)   | Espesor general (mm) / General thickness (mm) / Épaisseur générale (mm) | Espesor base (mm) / Base thickness (mm) / Épaisseur de base (mm) | Kg - MAX | Kg |
|-------|------------------|-------------------------------------------------------------------------|------------------------------------------------------------------|----------|----|
| 51046 | 1220 x 610 x 720 | 1,5                                                                     | 2,5                                                              | 300      | 80 |

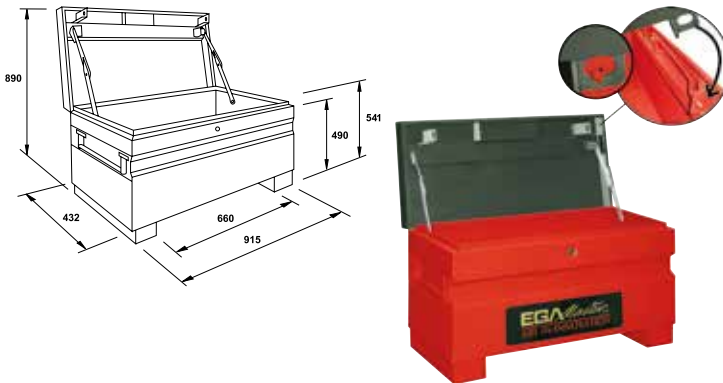
**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

- Tapa con doble pistón neumático / Double pneumatic absorber equipped lid / Couvercle avec double piston pneumatique
- Refuerzos laterales / Lateral reinforcement / Renforcements latéraux
- Cerradura en el centro del panel frontal con juego de dos llaves / Central safety lock (2 keys) / Serrure centrale (2 clés)
- Patatas especialmente diseñadas para transpalet / Prepared to be used with pallet truck / Coffres gerbables
- Fabricado en acero de alta calidad / Manufactured in high quality steel / Fabriqué en acier de haute qualité
- Asas laterales / Lateral handles / Anses latérales



- Los arcones EGA Master están especialmente diseñados para poder estar contenidos el arcón de menor tamaño dentro del siguiente en dimensiones, esto es: / EGA Master jobsite boxes are specially designed to transport the smaller one into the next bigger one: / Les coffres EGA Master sont spécialement conçus pour contenir le coffre de dimension inférieure à l'intérieur:
- código 51048 dentro del código 51047. / code 51048 into code 51047. / code 51048 à l'intérieur du code 51047.
- código 51047 dentro del código 51046. / code 51047 into code 51046. / code 51047 à l'intérieur du code 51046.
- Esta ventaja permite reducir ampliamente los costes de transporte y ahorrar espacio de almacenamiento. / That allows reducing largely transport costs and saves storing space. / Cet avantage permet de réduire considérablement les coûts de transport et d'économiser l'espace de stockage.

## ■ 915 × 432 × 541



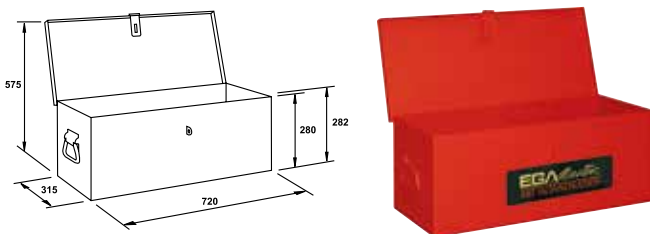
| COD.  | L x W x H (mm)  | Espesor general (mm) / General thickness (mm) / Épaisseur générale (mm) | Espesor base (mm) / Base thickness (mm) / Épaisseur de base (mm) | Kg-MAX | Kg |
|-------|-----------------|-------------------------------------------------------------------------|------------------------------------------------------------------|--------|----|
| 51047 | 915 x 432 x 541 | 1,5                                                                     | 2,5                                                              | 200    | 40 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                             |   |
|-----------------------------------------------------------------------------------------------------------------------------|---|
| Refuerzos laterales / Lateral reinforcement / Renforcements latéraux                                                        | ● |
| Cerradura en el centro del panel frontal con juego de dos llaves / Central safety lock (2 keys) / Serrure centrale (2 clés) | ● |
| Patas especialmente diseñadas para transpalet / Prepared to be used with pallet truck / Coffres gerbables                   | ● |
| Fabricado en acero de alta calidad / Manufactured in high quality steel / Fabriqué en acier de haute qualité                | ● |
| Asas laterales / Lateral handles / Anses latérales                                                                          | ● |



## ■ 720 × 315 × 282



| COD.  | L x W x H (mm)  | Espesor general (mm) / General thickness (mm) / Épaisseur générale (mm) | Kg-MAX | Kg |
|-------|-----------------|-------------------------------------------------------------------------|--------|----|
| 51048 | 720 x 315 x 282 | 1,5                                                                     | 80     | 13 |

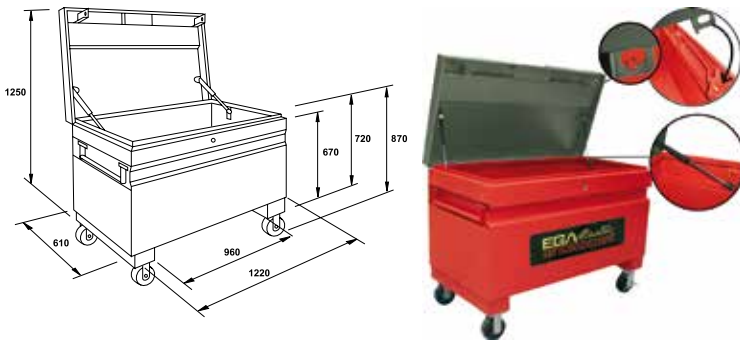
**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                              |   |
|--------------------------------------------------------------------------------------------------------------|---|
| Fabricado en acero de alta calidad / Manufactured in high quality steel / Fabriqué en acier de haute qualité | ● |
| Cierre para candado / Prepared for padlock / Fermeture cadenas                                               | ● |
| Asas laterales / Lateral handles / Anses latérales                                                           | ● |



- Los arcones EGA Master están especialmente diseñados para poder estar contenidos el arcón de menor tamaño dentro del siguiente en dimensiones, esto es: / EGA Master jobsite boxes are specially designed to transport the smaller one into the next bigger one: / Les coffres EGA Master sont spécialement conçus pour contenir le coffre de dimension inférieure à l'intérieur:
- código 51048 dentro del código 51047. / code 51048 into code 51047. / code 51048 à l'intérieur du code 51047.
- código 51047 dentro del código 51046. / code 51047 into code 51046. / code 51047 à l'intérieur du code 51046.
- Esta ventaja permite reducir ampliamente los costes de transporte y ahorrar espacio de almacenamiento. / That allows reducing largely transport costs and saves storing space. / Cet avantage permet de réduire considérablement les coûts de transport et d'économiser l'espace de stockage.

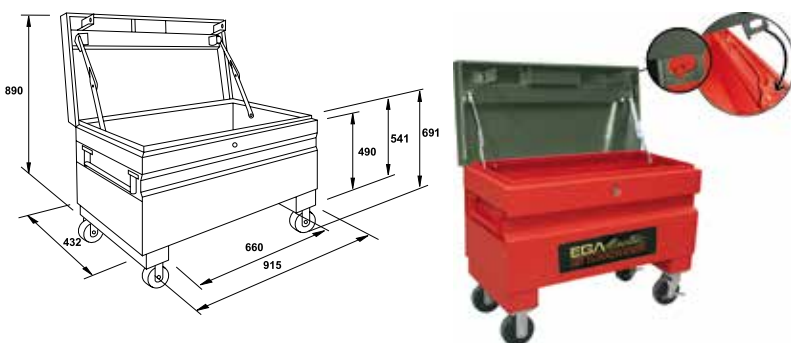


**ARCONES METÁLICOS CON RUEDAS / METALLIC JOBSITE BOXES WITH ROLLERS / COFFRES METALLIQUES À ROUES / METALLARBEITSCHRÄNKE MIT RÄDER / CASSONI METALLICI CON ROUTE / BAÚS METÁLICOS COM RODAS / МЕТАЛЛИЧЕСКИЕ КОНТЕЙНЕРЫ ДЛЯ ХРАНЕНИЯ ИНСТРУМЕНТА НА КОЛЕСАХ**
**1220 × 610 × 870**


| COD.  | L x W x H (mm)   | Espesor general (mm) / General thickness (mm) / Épaisseur générale (mm) | Espesor base (mm) / Base thickness (mm) / Épaisseur de base (mm) | Kg-MAX | Kg |
|-------|------------------|-------------------------------------------------------------------------|------------------------------------------------------------------|--------|----|
| 50991 | 1220 x 610 x 870 | 1,5                                                                     | 2,5                                                              | 300    | 85 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

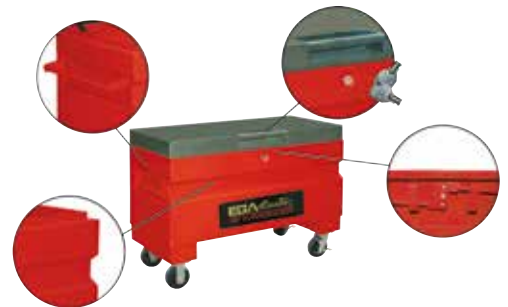
|                                                                                                                                      |         |
|--------------------------------------------------------------------------------------------------------------------------------------|---------|
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein | 5" x 2" |
| Tapa con doble pistón neumático / Double pneumatic absorber equipped lid / Couvercle avec double piston pneumatique                  | ●       |
| Refuerzos laterales / Lateral reinforcement / Renforcements latéraux                                                                 | ●       |
| Cerradura en el centro del panel frontal con juego de dos llaves / Central safety lock (2 keys) / Serrure centrale (2 clés)          | ●       |
| Fabricado en acero de alta calidad / Manufactured in high quality steel / Fabriqué en acier de haute qualité                         | ●       |
| Asas laterales / Lateral handles / Anses latérales                                                                                   | ●       |


**915 × 432 × 691**


| COD.  | L x W x H (mm)  | Espesor general (mm) / General thickness (mm) / Épaisseur générale (mm) | Espesor base (mm) / Base thickness (mm) / Épaisseur de base (mm) | Kg-MAX | Kg |
|-------|-----------------|-------------------------------------------------------------------------|------------------------------------------------------------------|--------|----|
| 50992 | 915 x 432 x 691 | 1,5                                                                     | 2,5                                                              | 200    | 40 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                                      |         |
|--------------------------------------------------------------------------------------------------------------------------------------|---------|
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein | 5" x 2" |
| Refuerzos laterales / Lateral reinforcement / Renforcements latéraux                                                                 | ●       |
| Cerradura en el centro del panel frontal con juego de dos llaves / Central safety lock (2 keys) / Serrure centrale (2 clés)          | ●       |
| Fabricado en acero de alta calidad / Manufactured in high quality steel / Fabriqué en acier de haute qualité                         | ●       |
| Asas laterales / Lateral handles / Anses latérales                                                                                   | ●       |





**ARCONES GALVANIZADOS / GALVANIZED JOBSITE BOXES / COFFRES GALVANISÉS / VERZINKTE ARBEITS-KISTE / CASSONI GALVANIZZATI / BAÚS GALVANIZADOS / ИНСТРУМЕНТАЛЬНЫЙ ЯЩИК С ЗАЩИТНЫМ ПОКРЫТИЕМ**
**1140 × 370 × 380**


| COD.         | L x W x H (mm)   | Espesor general (mm) / General thickness (mm) / Épaisseur générale (mm) | Kg - MAX | Kg |
|--------------|------------------|-------------------------------------------------------------------------|----------|----|
| <b>50939</b> | 1140 x 370 x 380 | 0,6                                                                     | 45       | 13 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

 Fabricado en acero galvanizado de alta calidad / *Manufactured in high quality galvanized steel* / Fabriqué en acier galvanisé d'haute qualité

 Cierre para candado / *Prepared for padlock* / Fermeture cadenas

 Asas laterales / *Lateral handles* / Anses latérales

**760 × 330 × 250**


| COD.         | L x W x H (mm)  | Espesor general (mm) / General thickness (mm) / Épaisseur générale (mm) | Kg - MAX | Kg  |
|--------------|-----------------|-------------------------------------------------------------------------|----------|-----|
| <b>50938</b> | 760 x 330 x 250 | 0,6                                                                     | 32       | 6,5 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

 Fabricado en acero galvanizado de alta calidad / *Manufactured in high quality galvanized steel* / Fabriqué en acier galvanisé d'haute qualité

 Cierre para candado / *Prepared for padlock* / Fermeture cadenas

 Asas laterales / *Lateral handles* / Anses latérales

 1 bandeja / *1 tray* / 1 plateau

**550 × 230 × 210**


| COD.         | L x W x H (mm)  | Espesor general (mm) / General thickness (mm) / Épaisseur générale (mm) | Kg - MAX | Kg  |
|--------------|-----------------|-------------------------------------------------------------------------|----------|-----|
| <b>50937</b> | 550 x 230 x 210 | 0,5                                                                     | 20       | 2,5 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

 Fabricado en acero galvanizado de alta calidad / *Manufactured in high quality galvanized steel* / Fabriqué en acier galvanisé d'haute qualité

 Cierre para candado / *Prepared for padlock* / Fermeture cadenas

 Asas laterales / *Lateral handles* / Anses latérales

- Los arcones EGA Master están especialmente diseñados para poder estar contenidos el arcón de menor tamaño dentro del siguiente en dimensiones, esto es: *EGA Master jobsite boxes are specially designed to transport the smaller one into the next bigger one* / Les coffres EGA Master sont spécialement conçus pour contenir le coffre de dimension inférieure à l'intérieur.
- código 50937 dentro del código 50938. / *code 50937 into code 50938*. / code 50937 à l'intérieur du code 50938.
- código 50938 dentro del código 50939. / *code 50938 into code 50939*. / code 50938 à l'intérieur du code 50939.
- Esta ventaja permite reducir ampliamente los costes de transporte y ahorrar espacio de almacenamiento. / *That allows reducing largely transport costs and saves storing space*. / Cet avantage permet de réduire considérablement les coûts de transport et d'économiser l'espace de stockage.



**MALETAS, CAJAS DE HERRAMIENTAS Y ACCESORIOS / TOOL BOXES AND ACCESSORIES / VALISES, CAISSES À OUTILS ET ACCESSOIRES / WERKZEUGKOFFER UND ZUBEHÖR / VALIGIE, CASSETTE PORTAUTENSILI ED ACCESSORI / MALAS, CAIXAS E ACESSÓRIOS / ЧЕМОДАНЫ, ЯЩИКИ ДЛЯ ИНСТРУМЕНТОВ И ЗАПАСНЫЕ ЧАСТИ**
**MALETA DE ALUMINIO PORTAHERRAMIENTAS / ALUMINIUM TOOL CASE / MALLETTE PORTE-OUTILS / ALUMINIUMKOFFER ZUM ROLLEN / VALIGIA PORTAUTENSILI IN ALLUMINO / MALA DE ALUMINIO PORTAFERRAMENTAS / АЛЮМИНИЕВЫЙ ИНСТРУМЕНТАЛЬНЫЙ КЕЙС**
**1350 × 356 × 114**

| COD.         | L x W x H (mm)   | Kg-MAX | Kg  |
|--------------|------------------|--------|-----|
| <b>51055</b> | 1350 x 356 x 114 | 18     | 7,5 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                        |   |
|------------------------------------------------------------------------|---|
| Cerradura con llave / Key lock / Serrure avec clé                      | ● |
| Con cierres en zamak / Zinc alloy lockers / Casiers en alliage de zinc | ● |


**665 × 500 × 110**

| COD.         | L x W x H (mm)  | Kg-MAX | Kg  |
|--------------|-----------------|--------|-----|
| <b>51054</b> | 665 x 500 x 110 | 10     | 3,4 |


**650 × 250 × 115**

| COD.         | L x W x H (mm)  | Kg-MAX | Kg  |
|--------------|-----------------|--------|-----|
| <b>50947</b> | 650 x 250 x 115 | 10     | 3,0 |


**520 × 330 × 152**

| COD.         | L x W x H (mm)  | Kg-MAX | Kg  |
|--------------|-----------------|--------|-----|
| <b>51056</b> | 520 x 330 x 152 | 13     | 3,6 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                        |   |
|------------------------------------------------------------------------|---|
| Cerradura con llave / Key lock / Serrure avec clé                      | ● |
| Con cierres en zamak / Zinc alloy lockers / Casiers en alliage de zinc | ● |


**455 × 205 × 320**

| COD.         | L x W x H (mm)  | Kg-MAX | Kg  |
|--------------|-----------------|--------|-----|
| <b>51012</b> | 455 x 205 x 320 | 15     | 4,0 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                          |   |
|------------------------------------------------------------------------------------------|---|
| Ruedas / Wheels / Roues                                                                  | ● |
| Cerradura de combinación / Number combination lock / Fermeture sécurisée par combinaison | ● |
| Asa telescópica / Telescopic handle / Anse télescopique                                  | ● |


**450 × 300 × 85**

| COD.         | L x W x H (mm) | Kg-MAX | Kg  |
|--------------|----------------|--------|-----|
| <b>50974</b> | 450 x 300 x 85 | 5      | 1,5 |



## ■ 365 × 240 × 75

| COD.         | L x W x H (mm) | Kg-MAX | Kg  |
|--------------|----------------|--------|-----|
| <b>51053</b> | 365 x 240 x 75 | 5      | 1,2 |



## ■ 288 × 180 × 53

| COD.         | L x W x H (mm) | Kg-MAX | Kg  |
|--------------|----------------|--------|-----|
| <b>51079</b> | 288 x 180 x 53 | 5      | 0,6 |



## ■ 250 × 145 × 53

| COD.         | L x W x H (mm) | Kg-MAX | Kg  |
|--------------|----------------|--------|-----|
| <b>51071</b> | 250 x 145 x 53 | 5      | 0,4 |



## ■ MALETA PORTAHERRAMIENTAS / TOOL CASE / MALLETTTE PORTE-OUTILS / WERKZEUGKOFFER / VALIGIA PORTAUTENSILI / MALA PORTAFERRAMENTAS / Кейс для инструментов

## ■ 470 × 355 × 160

| COD.         | L x W x H (mm)  | Kg  |
|--------------|-----------------|-----|
| <b>51010</b> | 470 x 355 x 160 | 3,2 |

## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                  |       |
|------------------------------------------------------------------|-------|
| Capacidad / Capacity / Capacité                                  | 15 kg |
| ABS extra resistente / Extra-resistant ABS / ABS extra-résistant | ●     |
| Cerradura con llave / Key lock / Serrure avec clé                | ●     |



## ■ 470 × 355 × 220

| COD.         | L x W x H (mm)  | Kg  |
|--------------|-----------------|-----|
| <b>50993</b> | 470 x 355 x 220 | 5,0 |

## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                          |        |
|------------------------------------------------------------------------------------------|--------|
| Ruedas / Wheels / Roues                                                                  | ●      |
| Capacidad / Capacity / Capacité                                                          | 15 kg  |
| ABS extra resistente / Extra-resistant ABS / ABS extra-résistant                         | ●      |
| Cerradura con llave / Key lock / Serrure avec clé                                        | ●      |
| Cerradura de combinación / Number combination lock / Fermeture sécurisée par combinaison | ●      |
| Resistencia / Resistance / Résistance                                                    | >90 kg |
| Asa telescópica / Telescopic handle / Anse télescopique                                  | 560 mm |



**CARROS PORTAMALETAS / PLASTIC TOOL BOXES WITH TROLLEY / CHARIOTS PORTE-MAIETTES / WERKZEUGKÄSTEN AUS KUNSTSTOFF MIT WAGEN / TROLLEY PORTAUTENSILI A 2 MODULI / CAIXAS DE FERRAMENTA COM TROLLEY / КОМПЛЕКТ ПЛАСТИКОВЫХ КЕЙСОВ НА ТЕЛЕЖКЕ**
**470 x 290 x 630**

| COD.         | L x W x H (mm)  | Kg  |
|--------------|-----------------|-----|
| <b>50968</b> | 470 x 290 x 630 | 4,0 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                               |      |
|---------------------------------------------------------------|------|
| Ruedas / <i>Wheels</i> / Roues                                | ●    |
| Capacidad / <i>Capacity</i> / Capacité                        | 60 L |
| Mat: PP                                                       | ●    |
| 2 asas plegables / <i>2 folding handle</i> / 2 anses pliables | ●    |
| 1 bandeja / <i>1 tray</i> / 1 plateau                         | ●    |


**500 x 410 x 770**

| COD.         | L x W x H (mm)  | Kg |
|--------------|-----------------|----|
| <b>50966</b> | 500 x 410 x 770 | 15 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                       |                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cajones y tapa transparente / <i>Drawer and transparent cover</i> / Tiroir avec couvercle transparent | Poliestireno (PS) / <i>Polystyrene (PS)</i> / Polystyrène (PS)                                                                                                  |
| 1 maleta + 1 maleta con cajón / <i>1 case + 1 drawer case</i> / 1 mallette + 1 mallette avec tiroir   | ●                                                                                                                                                               |
| Ruedas / <i>Wheels</i> / Roues                                                                        | ●                                                                                                                                                               |
| Capacidad / <i>Capacity</i> / Capacité                                                                | 40 kg                                                                                                                                                           |
| Estuche / <i>Case</i> / Étui                                                                          | 430 x 370 x 85 mm (2 pcs) - 430 x 370 x 55 mm (1 pcs)                                                                                                           |
| Cajas / <i>Boxes</i> / Caisses                                                                        | 55 x 39 x 47 mm (10 pcs) & 79 x 55 x 47 mm (10 pcs) & 109 x 79 x 47 mm (5 pcs) & 79 x 55 x 76 mm (5 pcs) & 109 x 79 x 76 mm (6 pcs) & 157 x 109 x 76 mm (2 pcs) |
| Mat: PP                                                                                               | ●                                                                                                                                                               |


**REPUESTOS / SPARE PARTS / RECHANGES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**
**ESTUCHE / CASE / COFFRET / FALL / VALIGIA / CASO / КЕЙС**

| COD.         | L x W x H (mm) | Válido para / <i>Valid for</i> / Valable pour |
|--------------|----------------|-----------------------------------------------|
| <b>89541</b> | 430 x 370 x 55 | 50966                                         |
| <b>89542</b> | 430 x 370 x 85 |                                               |



## CAJÓN / DRAWER / TIROIR / SCHUBLADE / CASSETTO / GAVETA / ЯЩИК

| COD.  | L x W x H (mm) | Válido para / Valid for / Valable pour |
|-------|----------------|----------------------------------------|
| 89535 | 55 x 39 x 47   | 50966                                  |
| 89536 | 79 x 55 x 47   |                                        |
| 89537 | 109 x 79 x 47  |                                        |
| 89538 | 79 x 55 x 76   |                                        |
| 89539 | 109 x 79 x 76  |                                        |
| 89540 | 157 x 109 x 76 |                                        |



## MALETAS ROBUST / ROBUST CASES / VALISES ROBUST / ROBUSTER KOFFER / VALIGIE ROBUST / MALAS ROBUST / УДАРОПРОЧНЫЕ КЕЙСЫ

445 x 345 x 125

| COD.  | L x W x H (mm)  | Kg  |
|-------|-----------------|-----|
| 58590 | 445 x 345 x 125 | 3,4 |

## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                |      |
|----------------------------------------------------------------|------|
| Bandeja portaherramientas / Tool tray / Plateau porte-outils   | -    |
| Grado de protección / Ingress protection / Grade de protection | IP67 |
| Ruedas / Wheels / Roues                                        | -    |



## MALETAS ROBUST CON RUEDAS / ROBUST CASES WITH TROLLEY / VALISES ROBUST À ROULETTES / ROBUSTER KOFFER MIT ROLLER / VALIGIE ROBUST CON RUOTE / TROLLEY ROBUST / УДАРОПРОЧНЫЙ КЕЙС С ТЕЛЕЖКОЙ

581 x 381 x 455



| COD.  | L x W x H (mm)  | Kg |
|-------|-----------------|----|
| 58594 | 581 x 381 x 455 | 15 |
| 58605 |                 | 18 |


## ESPECIFICACIONES / SPECIFICATION / DÉTAILS

|                                                                |                       |
|----------------------------------------------------------------|-----------------------|
| Bandeja portaherramientas / Tool tray / Plateau porte-outils   | 8 x 58620             |
| Grado de protección / Ingress protection / Grade de protection | 58594 IP67<br>58605 - |
| Ruedas / Wheels / Roues                                        | ●                     |

| COD.  | L x W x H (mm)  | Kg |
|-------|-----------------|----|
| 58595 | 581 x 381 x 455 | 14 |
| 58606 |                 | 18 |


## ESPECIFICACIONES / SPECIFICATION / DÉTAILS

|                                                                |                       |
|----------------------------------------------------------------|-----------------------|
| Bandeja portaherramientas / Tool tray / Plateau porte-outils   | 6 x 58620 + 1 x 58621 |
| Grado de protección / Ingress protection / Grade de protection | 58595 IP67<br>58606 - |
| Ruedas / Wheels / Roues                                        | ●                     |

| COD.         | L x W x H (mm)  |  |
|--------------|-----------------|-----------------------------------------------------------------------------------|
| <b>58596</b> | 581 x 381 x 455 | 14                                                                                |
| <b>58607</b> |                 | 17                                                                                |


**ESPECIFICACIONES / SPECIFICATION / DÉTAILS**

|                                                                |                       |
|----------------------------------------------------------------|-----------------------|
| Bandeja portaherramientas / Tool tray / Plateau porte-outils   | 4 x 58620 + 2 x 58621 |
| Grado de protección / Ingress protection / Grade de protection |                       |
|                                                                | 58596 IP67            |
|                                                                | 58607 -               |
| Ruedas / Wheels / Roues                                        | ●                     |

| COD.         | L x W x H (mm)  |  |
|--------------|-----------------|-----------------------------------------------------------------------------------|
| <b>58597</b> | 581 x 381 x 455 | 14                                                                                |
| <b>58608</b> |                 | 17                                                                                |


**ESPECIFICACIONES / SPECIFICATION / DÉTAILS**

|                                                                |                       |
|----------------------------------------------------------------|-----------------------|
| Bandeja portaherramientas / Tool tray / Plateau porte-outils   | 2 x 58620 + 3 x 58621 |
| Grado de protección / Ingress protection / Grade de protection |                       |
|                                                                | 58597 IP67            |
|                                                                | 58608 -               |
| Ruedas / Wheels / Roues                                        | ●                     |

| COD.         | L x W x H (mm)  |  |
|--------------|-----------------|-------------------------------------------------------------------------------------|
| <b>58598</b> | 581 x 381 x 455 | 13                                                                                  |
| <b>58609</b> |                 | 17                                                                                  |


**ESPECIFICACIONES / SPECIFICATION / DÉTAILS**

|                                                                |            |
|----------------------------------------------------------------|------------|
| Bandeja portaherramientas / Tool tray / Plateau porte-outils   | 4 x 58621  |
| Grado de protección / Ingress protection / Grade de protection |            |
|                                                                | 58598 IP67 |
|                                                                | 58609 -    |
| Ruedas / Wheels / Roues                                        | ●          |

| COD.         | L x W x H (mm)  |  |
|--------------|-----------------|-------------------------------------------------------------------------------------|
| <b>58599</b> | 581 x 381 x 455 | 14                                                                                  |
| <b>58610</b> |                 | 17                                                                                  |


**ESPECIFICACIONES / SPECIFICATION / DÉTAILS**

|                                                                |                       |
|----------------------------------------------------------------|-----------------------|
| Bandeja portaherramientas / Tool tray / Plateau porte-outils   | 5 x 58620 + 1 x 58622 |
| Grado de protección / Ingress protection / Grade de protection |                       |
|                                                                | 58599 IP67            |
|                                                                | 58610 -               |
| Ruedas / Wheels / Roues                                        | ●                     |

| COD.         | L x W x H (mm)  |  |
|--------------|-----------------|-------------------------------------------------------------------------------------|
| <b>58600</b> | 581 x 381 x 455 | 13                                                                                  |
| <b>58611</b> |                 | 17                                                                                  |


**ESPECIFICACIONES / SPECIFICATION / DÉTAILS**

|                                                                |                       |
|----------------------------------------------------------------|-----------------------|
| Bandeja portaherramientas / Tool tray / Plateau porte-outils   | 2 x 58620 + 2 x 58622 |
| Grado de protección / Ingress protection / Grade de protection |                       |
|                                                                | 58600 IP67            |
|                                                                | 58611 -               |
| Ruedas / Wheels / Roues                                        | ●                     |

| COD.         | L x W x H (mm)  |  |
|--------------|-----------------|-------------------------------------------------------------------------------------|
| <b>58601</b> | 581 x 381 x 455 | 13                                                                                  |
| <b>58612</b> |                 | 16                                                                                  |


**ESPECIFICACIONES / SPECIFICATION / DÉTAILS**

|                                                                |                       |
|----------------------------------------------------------------|-----------------------|
| Bandeja portaherramientas / Tool tray / Plateau porte-outils   | 1 x 58621 + 2 x 58622 |
| Grado de protección / Ingress protection / Grade de protection |                       |
|                                                                | 58601 IP67            |
|                                                                | 58612 -               |
| Ruedas / Wheels / Roues                                        | ●                     |

| COD.         | L x W x H (mm)  |  |
|--------------|-----------------|---------------------------------------------------------------------------------------|
| <b>58602</b> | 581 x 381 x 455 | 13                                                                                    |
| <b>58613</b> |                 | 17                                                                                    |

**ESPECIFICACIONES / SPECIFICATION / DÉTAILS**

|                                                                |                                   |
|----------------------------------------------------------------|-----------------------------------|
| Bandeja portaherramientas / Tool tray / Plateau porte-outils   | 1 x 58620 + 2 x 58621 + 1 x 58622 |
| Grado de protección / Ingress protection / Grade de protection |                                   |
|                                                                | 58602 IP67                        |
|                                                                | 58613 -                           |
| Ruedas / Wheels / Roues                                        | ●                                 |

| COD.         | L x W x H (mm)  |  |
|--------------|-----------------|---------------------------------------------------------------------------------------|
| <b>58603</b> | 581 x 381 x 455 | 14                                                                                    |
| <b>58614</b> |                 | 17                                                                                    |

**ESPECIFICACIONES / SPECIFICATION / DÉTAILS**

|                                                                |                                   |
|----------------------------------------------------------------|-----------------------------------|
| Ruedas / Wheels / Roues                                        | ●                                 |
| Bandeja portaherramientas / Tool tray / Plateau porte-outils   | 3 x 58620 + 1 x 58621 + 1 x 58622 |
| Grado de protección / Ingress protection / Grade de protection |                                   |
|                                                                | 58603 IP67                        |
|                                                                | 58614 -                           |

## ■ REPUESTOS / SPARE PARTS / RECHANGES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ

## ■ BANDEJAS / TRAYS / PLATEAUX / ABLAGEKASTEN / PANNELLO / TABULEIROS / ПОДДОНЫ



| COD.         | L x W x H (mm) |
|--------------|----------------|
| <b>58620</b> | 467 × 255 × 30 |



| COD.         | L x W x H (mm) |
|--------------|----------------|
| <b>58621</b> | 467 × 255 × 60 |



| COD.         | L x W x H (mm) |
|--------------|----------------|
| <b>58622</b> | 467 × 255 × 95 |

## ■ 670 × 510 × 372

| COD.         | L x W x H (mm)  |  Kg | Grado de protección / Degree of protection / Grade de protection |
|--------------|-----------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------|
| <b>58592</b> | 670 × 510 × 372 | 11                                                                                   | IP67                                                             |

## ■ ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                |      |
|----------------------------------------------------------------|------|
| Bandeja portaherramientas / Tool tray / Plateau porte-outils   | -    |
| Grado de protección / Ingress protection / Grade de protection | IP67 |
| Ruedas / Wheels / Roues                                        | ●    |



## ■ 546 × 347 × 247

| COD.         | L x W x H (mm)  |  Kg | Grado de protección / Degree of protection / Grade de protection |
|--------------|-----------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------|
| <b>58591</b> | 546 × 347 × 247 | 6,5                                                                                    | IP67                                                             |

## ■ ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                |      |
|----------------------------------------------------------------|------|
| Bandeja portaherramientas / Tool tray / Plateau porte-outils   | -    |
| Grado de protección / Ingress protection / Grade de protection | IP67 |
| Ruedas / Wheels / Roues                                        | ●    |
| Asa telescópica / Telescopic handle / Anse télescopique        | ●    |



## ■ MOCHILA / BACKPACK / SAC À DOS / RUCKSACK / ZAINO / MOCHILA / РЮКЗАК

| COD.         | Válido para / Valid for / Valable pour |
|--------------|----------------------------------------|
| <b>58589</b> | 58591                                  |



**MALETA ABS APILABLE Y CASI INDESTRUCTIBLE / ABS TOOL CASE STACKABLE AND ALMOST INDESTRUCTIBLE / VALISE ABS EMPILABLE ET PRESQUE INDESTRUCTIBLE / ABS-WERKZEUGKOFFER STAPELBAR UND FAST UNZERSTÖRBAR / VALIGIA IN ABS IMPILABILE E QUASI INDISTRUTTIBILE / MALA ABS EMPILHÁVEL E QUASE INDESTRUTÍVEL / СВЕРХПРОЧНЫЙ ШТАБЕЛИРУЕМЫЙ ЯЩИК АБС**

| COD.         | L x W x H (mm)  | Kg  |
|--------------|-----------------|-----|
| <b>50994</b> | 464 x 335 x 142 | 2,2 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                                                                                                    |                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Capacidad / Capacity / Capacité                                                                                                                                                                    | 60 kg                                     |
| ABS extra resistente / Extra-resistant ABS / ABS extra-résistant                                                                                                                                   | Hasta 90 kg / Up to 90 kg / Jusqu'à 90 kg |
| Mat: PP                                                                                                                                                                                            | •                                         |
| Apilables / Stackables / Empilables                                                                                                                                                                | •                                         |
| Auto-basculante / Self-balancing / Auto-basculant                                                                                                                                                  | •                                         |
| Ergonómicamente diseñada para que el agua y el polvo resbalen por el rail / Construction will guide rain and dust away / Ergonomiquement conçu pour que l'eau et la poussière glisse sur le rebord | •                                         |



| COD.         | L x W x H (mm)  | Kg  |
|--------------|-----------------|-----|
| <b>50995</b> | 464 x 335 x 212 | 2,5 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                                                                                                    |                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Capacidad / Capacity / Capacité                                                                                                                                                                    | 60 kg                                     |
| ABS extra resistente / Extra-resistant ABS / ABS extra-résistant                                                                                                                                   | Hasta 90 kg / Up to 90 kg / Jusqu'à 90 kg |
| Apilables / Stackables / Empilables                                                                                                                                                                | •                                         |
| Auto-basculante / Self-balancing / Auto-basculant                                                                                                                                                  | •                                         |
| Ergonómicamente diseñada para que el agua y el polvo resbalen por el rail / Construction will guide rain and dust away / Ergonomiquement conçu pour que l'eau et la poussière glisse sur le rebord | •                                         |



| COD.         | L x W x H (mm)  | Kg  |
|--------------|-----------------|-----|
| <b>50996</b> | 464 x 335 x 362 | 3,2 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                                                                                                    |                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Capacidad / Capacity / Capacité                                                                                                                                                                    | 60 kg                                     |
| ABS extra resistente / Extra-resistant ABS / ABS extra-résistant                                                                                                                                   | Hasta 90 kg / Up to 90 kg / Jusqu'à 90 kg |
| Apilables / Stackables / Empilables                                                                                                                                                                | •                                         |
| Auto-basculante / Self-balancing / Auto-basculant                                                                                                                                                  | •                                         |
| Ergonómicamente diseñada para que el agua y el polvo resbalen por el rail / Construction will guide rain and dust away / Ergonomiquement conçu pour que l'eau et la poussière glisse sur le rebord | •                                         |




**ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACCESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

| COD.         | Descripción / Description / Description                                 |
|--------------|-------------------------------------------------------------------------|
| <b>50981</b> | Panel superior fijo / Fixed upper panel / Panneau supérieur fixe        |
| <b>50982</b> | Panel inferior móvil / Movable lower panel / Panneau inférieur amovible |




**MALETA ABS APILABLE Y CASI INDESTRUCTIBLE CON PANELES / ABS TOOL CASE STACKABLE AND ALMOST INDESTRUCTIBLE WITH PANELS / VALISE ABS EMPILABLE ET PRESQUE INDESTRUCTIBLE AVEC PANNEAUX / ABS-WERKZEUGKASTE STAPELBAR UND MIT PANELEN FAST UNZERSTÖRBAR / VALIGIA IN ABS IMPILABILE E QUASI INDISTRUTTIBILE CON PANNELLI / MALA ABS EMPILHÁVEL E QUASE INDESTRUTÍVEL COM PAINÉIS / СВЕРХПРОЧНЫЙ ШТАБЕЛИРУЕМЫЙ ЯЩИК АБС С ПАНЕЛЯМИ**

| COD.         | L x W x H (mm)  |  |  |
|--------------|-----------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>50983</b> | 464 x 335 x 142 | 1                                                                                 | 2,6                                                                                |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                                                                                                    |                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Capacidad / Capacity / Capacité                                                                                                                                                                    | 60 kg                                                                                                                               |
| ABS extra resistente / Extra-resistant ABS / ABS extra-résistant                                                                                                                                   | Hasta 90 kg / Up to 90 kg / Jusqu'à 90 kg                                                                                           |
| Panel / Panel / Panneau                                                                                                                                                                            | Superior: cod. 50981   Inferior: cod. 50982 / Upper: cod. 50981   Lower: cod. 50982 / Supérieur: cod. 50981   Inférieur: cod. 50982 |
| Apilables / Stackables / Empilables                                                                                                                                                                | ●                                                                                                                                   |
| Auto-basculante / Self-balancing / Auto-basculant                                                                                                                                                  | ●                                                                                                                                   |
| Ergonómicamente diseñada para que el agua y el polvo resbalen por el rail / Construction will guide rain and dust away / Ergonomiquement conçu pour que l'eau et la poussière glisse sur le rebord | ●                                                                                                                                   |






| COD.         | L x W x H (mm)  |  |  |
|--------------|-----------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>50984</b> | 464 x 335 x 212 | 1                                                                                 | 3,1                                                                                |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                                                                                                    |                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Capacidad / Capacity / Capacité                                                                                                                                                                    | 60 kg                                                                                                                               |
| ABS extra resistente / Extra-resistant ABS / ABS extra-résistant                                                                                                                                   | Hasta 90 kg / Up to 90 kg / Jusqu'à 90 kg                                                                                           |
| Panel / Panel / Panneau                                                                                                                                                                            | Superior: cod. 50981   Inferior: cod. 50982 / Upper: cod. 50981   Lower: cod. 50982 / Supérieur: cod. 50981   Inférieur: cod. 50982 |
| Apilables / Stackables / Empilables                                                                                                                                                                | ●                                                                                                                                   |
| Auto-basculante / Self-balancing / Auto-basculant                                                                                                                                                  | ●                                                                                                                                   |
| Ergonómicamente diseñada para que el agua y el polvo resbalen por el rail / Construction will guide rain and dust away / Ergonomiquement conçu pour que l'eau et la poussière glisse sur le rebord | ●                                                                                                                                   |



| COD.         | L x W x H (mm)  |  |  |  |
|--------------|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>50985</b> | 464 x 335 x 362 | 1                                                                                   | 2                                                                                   | 5,0                                                                                  |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Posibilidad de incorporar más paneles en el fondo / Possibility to place more panels on the bottom / Possibilité d'incorporer plus de panneaux au fond

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                                                                                                    |                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Capacidad / Capacity / Capacité                                                                                                                                                                    | 60 kg                                                                                                                               |
| ABS extra resistente / Extra-resistant ABS / ABS extra-résistant                                                                                                                                   | Hasta 90 kg / Up to 90 kg / Jusqu'à 90 kg                                                                                           |
| Panel / Panel / Panneau                                                                                                                                                                            | Superior: cod. 50981   Inferior: cod. 50982 / Upper: cod. 50981   Lower: cod. 50982 / Supérieur: cod. 50981   Inférieur: cod. 50982 |
| Apilables / Stackables / Empilables                                                                                                                                                                | ●                                                                                                                                   |
| Auto-basculante / Self-balancing / Auto-basculant                                                                                                                                                  | ●                                                                                                                                   |
| Ergonómicamente diseñada para que el agua y el polvo resbalen por el rail / Construction will guide rain and dust away / Ergonomiquement conçu pour que l'eau et la poussière glisse sur le rebord | ●                                                                                                                                   |



**CARRO DE TRANSPORTE PARA MALETAS ABS APILABLES / TROLLEY FOR ABS STACKABLE TOOL CASES / CHARIOT POUR TRANSPORT DE VALISES ABS EMPILABLES / WAGEN FÜR STAPELBARE WERKZEUGKOFFER / CARRELLO PER TRASPORTO DI VALIGIE ABS IMPILABILI / CARRO DE TRANSPORTE PARA MALAS ABS EMPILHÁVEIS / ТЕЛЕЖКА ДЛЯ ПЛАСТИКОВЫХ ИНСТРУМЕНТАЛЬНЫХ ЯЩИКОВ**

**SIN MANGO / WITHOUT HANDLE / SANS MANCHE / OHNE GRIFF / SENZA MANICO / SEM CABO / БЕЗ РУКОЯТКИ**

| COD.         | L x W x H (mm)  | Kg  |
|--------------|-----------------|-----|
| <b>50988</b> | 470 x 350 x 110 | 3,5 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                                              |        |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 2 ruedas giratorias y 2 giratorias con freno / 2 revolving and 2 revolving with break wheels / 2 roues giratoires et 2 giratoires avec frein | ●      |
| Capacidad / Capacity / Capacité                                                                                                              | 200 kg |



**CON MANGO / WITH HANDLE / AVEC MANCHE / MIT GRIFF / CON MANICO / COM CABO / С РУКОЯТКОЙ**

| COD.         | L x W x H (mm)  | Kg  |
|--------------|-----------------|-----|
| <b>50964</b> | 430 X 560 X 910 | 9,0 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                 |        |
|---------------------------------|--------|
| Capacidad / Capacity / Capacité | 200 kg |
|---------------------------------|--------|



**MALETA APILABLE / STACKABLE TOOL CASE / VALISE EMPILABLE / STAPELBARER WERKZEUGKOFFER / CASSETTO PORTAUTENSILI IMPILABILE / MALA EMPILHÁVEL / ШТАБЕЛИРУЕМЫЙ КЕЙС**

**585 x 385 x 190**

| COD.         | L x W x H (mm)  | Kg  |
|--------------|-----------------|-----|
| <b>58870</b> | 585 x 385 x 190 | 5,0 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                     |      |
|-------------------------------------|------|
| Apilables / Stackables / Empilables | ●    |
| Mat: PP                             | ●    |
| Capacidad / Capacity / Capacité     | 12 L |



## ■ 585 x 385 x 320

| COD.         | L x W x H (mm)  | Kg  |
|--------------|-----------------|-----|
| <b>58871</b> | 585 x 385 x 320 | 5,5 |

## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                     |      |
|-------------------------------------|------|
| Apilables / Stackables / Empilables | ●    |
| Mat: PP                             | ●    |
| Capacidad / Capacity / Capacité     | 38 L |



## ■ 585 x 385 x 420

| COD.         | L x W x H (mm)  | Kg  |
|--------------|-----------------|-----|
| <b>58872</b> | 585 x 385 x 420 | 6,5 |

## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                     |      |
|-------------------------------------|------|
| Apilables / Stackables / Empilables | ●    |
| Mat: PP                             | ●    |
| Capacidad / Capacity / Capacité     | 52 L |


 PLATAFORMA PARA MALETAS APILABLES / PLATFORM FOR STOCKABLE CASES / PLATEFORME POUR MALETTES EMPILABLES / PLATTFORM FÜR STAPELBARE KOFFER /  
 PIATTAFORMA PER CASSETTE PORTAUTENSILI IMPILABILI / PLATAFORMA PARA MALAS MODULARES / ПЛАТФОРМА ДЛЯ ШТАБЕЛИРУЕМЫХ КЕЙСОВ

| COD.         | L x W x H (mm)  | Kg  |
|--------------|-----------------|-----|
| <b>58873</b> | 745 x 510 x 180 | 4,5 |

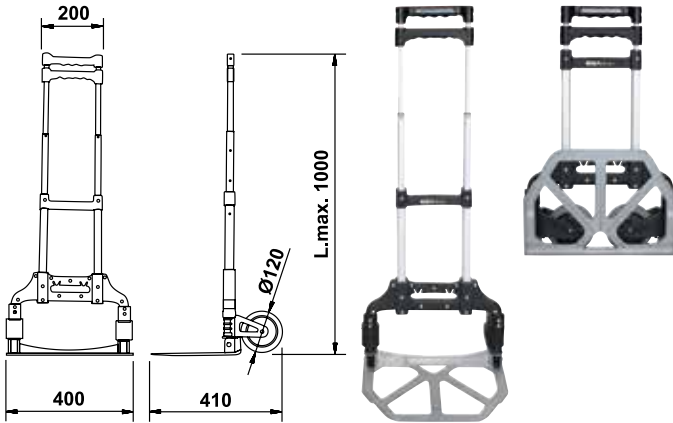
## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES


|                                                                                                                                      |   |
|--------------------------------------------------------------------------------------------------------------------------------------|---|
| Apilables / Stackables / Empilables                                                                                                  | ● |
| Mat: PP                                                                                                                              | ● |
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein | ● |


 JUEGO DE MALETAS APILABLES CON PLATAFORMA / STOCKABLE CASE SET WITH PLATFORM / JEU DE MALETTES EMPILABLES AVEC PLATEFORME / STAPELBARE KOFFER MIT  
 PLATTFORM / KIT CASSETTE PORTAUTENSILI IMPILABILI CON PIATTAFORMA / CONJUNTO DE MALAS MODULARES COM PLATAFORMA / КОМПЛЕКТ КЕЙСОВ НА ПЛАТФОРМЕ

| COD.         | L x W x H (mm)   | Kg |
|--------------|------------------|----|
| <b>58874</b> | 745 x 510 x 1000 | 22 |



**CARRO DE TRANSPORTE UNIVERSAL / UNIVERSAL TROLLEY / CHARIOT POUR TRANSPORT UNIVERSEL / UNIVERSALWAGEN / CARRELLO PER TRASPORTO UNIVERSALE / CARRO DE TRANSPORTE MANUAL / УНИВЕРСАЛЬНАЯ ТЕЛЕЖКА**







| COD.         | L x W x H (mm)   |  |  |
|--------------|------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>50986</b> | 1000 x 400 x 410 | 630 x 390 x 60                                                                    | 3,2                                                                                 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                         |                                 |
|---------------------------------------------------------|---------------------------------|
| 2 ruedas / 2 wheels / 2 roues                           | ●                               |
| Capacidad / Capacity / Capacité                         | 60 kg                           |
| Material / Material / Matière                           | Aluminio / Aluminum / Aluminium |
| Cuerda para amarre / Mooring rope / Corde pour amarrage | ●                               |






**CAJAS DE HERRAMIENTAS / TOOL BOXES / CAISSES À OUTILS / WERKZEUGKASTEN / CASSETTE PORTAUTENSILI / CAIXAS DE FERRAMENTAS / ЯЩИКИ ДЛЯ ИНСТРУМЕНТА**


Disponible en 4 colores  
 Available in 4 colors  
 Disponible en 4 couleurs

| COD.         | L x W x H (mm)  |  | Color / Colour / Couleur                                                            |
|--------------|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>51023</b> | 495 x 200 x 293 | 4,5                                                                                 |  |
| <b>51482</b> |                 |                                                                                     |  |
| <b>51494</b> |                 |                                                                                     |  |
| <b>51506</b> |                 |                                                                                     |  |


**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                  |       |
|----------------------------------|-------|
| Capacidad / Capacity / Capacité  | 25 kg |
| Elementos / Compartments / Cases | 5     |


| COD.         | L x W x H (mm)  |  | Color / Colour / Couleur                                                            |
|--------------|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>51038</b> | 404 x 200 x 195 | 3,3                                                                                 |  |
| <b>51485</b> |                 |                                                                                     |  |
| <b>51497</b> |                 |                                                                                     |  |
| <b>51509</b> |                 |                                                                                     |  |


**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                  |       |
|----------------------------------|-------|
| Capacidad / Capacity / Capacité  | 20 kg |
| Elementos / Compartments / Cases | 5     |

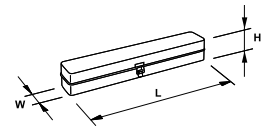
| COD.         | L x W x H (mm)  |  |
|--------------|-----------------|-----------------------------------------------------------------------------------|
| <b>64648</b> | 550 x 245 x 250 | 4,0                                                                               |

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES |       |
|--------------------------------------------------------------------------|-------|
| Capacidad / Capacity / Capacité                                          | 20 kg |
| Elementos / Compartments / Cases                                         | 1     |

| COD.         | L x W x H (mm) |  |
|--------------|----------------|-----------------------------------------------------------------------------------|
| <b>86280</b> | 305 x 50 x 45  | 0,25                                                                              |
| <b>86281</b> | 315 x 80 x 40  | 0,30                                                                              |
| <b>86282</b> | 410 x 75 x 65  | 0,56                                                                              |
| <b>86283</b> | 370 x 100 x 60 | 0,75                                                                              |
| <b>86284</b> | 280 x 130 x 75 | 1,00                                                                              |
| <b>86285</b> | 540 x 95 x 75  | 1,25                                                                              |
| <b>86286</b> | 305 x 45 x 40  | 0,20                                                                              |
| <b>86287</b> | 310 x 85 x 40  | 0,30                                                                              |
| <b>86288</b> | 380 x 65 x 60  | 0,65                                                                              |
| <b>86289</b> | 380 x 100 x 60 | 0,75                                                                              |
| <b>86290</b> | 280 x 130 x 75 | 1,00                                                                              |
| <b>86291</b> | 540 x 95 x 75  | 1,25                                                                              |

| COD.         | L x W x H (mm)  | CAP. (kg) |  |
|--------------|-----------------|-----------|-------------------------------------------------------------------------------------|
| <b>51058</b> | 400 x 206 x 188 | 15        | 950                                                                                 |

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES |   |
|--------------------------------------------------------------------------|---|
| Mat: PP                                                                  | ● |
| Compartimentos / Compartments / Cases                                    | 8 |
| 1 bandeja / 1 tray / 1 plateau                                           | ● |



| COD.         | L x W x H (mm)  | CAP. (kg) | Kg  |
|--------------|-----------------|-----------|-----|
| <b>51059</b> | 480 x 258 x 255 | 30        | 2,2 |

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES |       |
|--------------------------------------------------------------------------|-------|
| Estuche / Case / Étui                                                    | 1     |
| Mat: PP                                                                  | ●     |
| Compartimentos / Compartments / Cases                                    | 8, 16 |
| 1 bandeja / 1 tray / 1 plateau                                           | ●     |



#### ■ CANDADOS / PADLOCKS / UN CADENAS / VORHÄNGESCHLOSSE / LUCCHETTI / CADEADOS / ЗАМКИ

| COD.         | L (mm) | O.D. mm | g  |
|--------------|--------|---------|----|
| <b>11130</b> | 32     | 4,2     | 28 |
| <b>11131</b> | 42     | 4,6     | 46 |



#### ■ BOLSAS, MOCHILAS Y CHALECOS / BAGS, POUCHES BACKPACKS AND VESTS / SACS À DOS ET GILLETS / TASCHEN, RÜCKSACK UND VESTS / BORSE, ZAINI E GILET / BOLSAS, MOCHILAS E COLETES / СУМКИ, РЮКЗАКИ И ЖИЛЕТЫ

#### ■ BOLSAS PORTAHERRAMIENTAS / TOOL BAGS / SACS PORTE-OUTILS / WERKZEUGTASCHE / BORSA PORTAUTENSILI / BOLSA PORTA FERRAMENTAS / ИНСТРУМЕНТАЛЬНЫЕ СУМКИ

| COD.         | L x W x H (mm)  | Kg-MAX | 50 | ● |
|--------------|-----------------|--------|----|---|
| <b>51014</b> | 495 x 265 x 340 | 20     | 50 | ● |



| COD.         | L x W x H (mm)  | Kg-MAX | 32 | ● |
|--------------|-----------------|--------|----|---|
| <b>51034</b> | 400 x 265 x 295 | 15     | 32 | ● |



| COD.         | L x W x H (mm)  | Kg-MAX | 22 | ● |
|--------------|-----------------|--------|----|---|
| <b>51013</b> | 400 x 215 x 305 | 15     | 22 | ● |



| COD.         | L x W x H (mm)  | Kg-MAX | 16 | ● |
|--------------|-----------------|--------|----|---|
| <b>51033</b> | 400 x 230 x 295 | 15     | 16 | ● |



| COD.         | L x W x H (mm)  | Kg-MAX |    |   |
|--------------|-----------------|--------|----|---|
| <b>50960</b> | 415 x 230 x 260 | 15     | 15 | ● |



| COD.         | L x W x H (mm)  | Kg-MAX |    |   |
|--------------|-----------------|--------|----|---|
| <b>50961</b> | 495 x 245 x 290 | 15     | 36 | ● |



| COD.         | L x W x H (mm)  | Kg-MAX |   |   |
|--------------|-----------------|--------|---|---|
| <b>50962</b> | 510 x 290 x 360 | 15     | 4 | ● |



#### MOCHILA PORTAHERRAMIENTA / TOOL BACKPACK / SAC À DOS PORTE-OUTILS / WERKZEUG RUCKSACK / ZAINO PORTA UTENSILI / MOCHILA PORTA-FERRAMENTA / РЮКЗАК ДЛЯ ИНСТРУМЕНТОВ

| COD.         | L x W x H (mm)  | Kg-MAX |    | Kg  |
|--------------|-----------------|--------|----|-----|
| <b>50963</b> | 390 x 220 x 480 | 20     | 66 | 2,1 |

#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                  |    |
|----------------------------------------------------------------------------------------------------------------------------------|----|
| Correas acolchadas ajustables / <i>Adjustable padded straps</i> / Bretelles matelassées ajustables                               | ●  |
| Cintas para la fijación de objetos / <i>Strap to tie objects</i> / Sangle pour fixation des objets                               | ●  |
| Bolsillos laterales / <i>Side compartments</i> / Poches latérales                                                                | 2  |
| Bolsillo interior en la parte delantera / <i>Internal pocket at the front of the pack</i> / Poche intérieure sur la partie avant | 1  |
| Bolsillos interiores / <i>Internal pockets</i> / Poches intérieures                                                              | 63 |



**BOLSA PARA SETS DE LLAVES FIJAS / BAG FOR OPEN-END WRENCH SETS / TROUSSE POUR SET DE CLÉS À FOURCHES / TASCHE F-MAULSCHLÜSSEL / BORSA PER SET DI CHIAVI FISSE / BOLSA PARA CONJUNTO DE CHAVES DE BOCA / СУМКА ДЛЯ НАБОРА РОЖКОВЫХ КЛЮЧЕЙ**

| COD.  | L x W (mm) | PCS. |
|-------|------------|------|
| 90052 | 290 x 250  | 6    |
| 90053 | 425 x 295  | 8    |
| 90054 | 510 x 330  | 10   |
| 90055 | 700 x 370  | 12   |


**BOLSA PARA SETS DE LLAVES COMBINADAS / BAG FOR COMBINATION WRENCH SETS / TROUSSE POUR SET DE CLÉS MIXTES / TASCHE F-RINGMAULSCHLÜSSEL / BORSA PER SET DI CHIAVI COMBINATE / BOLSA PARA CONJUNTO DE CHAVES COMBINADAS / СУМКА ДЛЯ НАБОРА КОМБИНИРОВАННЫХ КЛЮЧЕЙ**

| COD.  | L x W (mm) | PCS. |
|-------|------------|------|
| 90080 | 245 x 280  | 6    |
| 90081 | 315 x 300  | 8    |
| 90082 | 435 x 300  | 10   |
| 90083 | 505 x 360  | 12   |
| 90060 | 660 x 490  | 13   |
| 90063 | 775 x 490  | 14   |
| 90061 | 710 x 490  | 15   |
| 90064 | 770 x 440  | 17   |
| 90065 | 740 x 580  | 26   |


**BOLSA PARA SETS DE LLAVES ACODADAS / BAG FOR DOUBLE OFFSET RING WRENCH SETS / TROUSSE POUR SET DE CLÉS POLYGAONALES CONTRE-COUDÉES / TASCHE F-RINGSCHLÜSSEL / BORSA PER SET DI CHIAVI POLIGONALI / BOLSA PARA CONJUNTO DE CHAVES DE LUNETA / СУМКА ДЛЯ НАБОРА НАКИДНЫХ КЛЮЧЕЙ**

| COD.  | L x W (mm) | PCS. |
|-------|------------|------|
| 90056 | 325 x 325  | 6    |
| 90057 | 500 x 370  | 8    |
| 90058 | 615 x 440  | 10   |
| 90059 | 755 x 495  | 12   |





**CHALECO PORTAHERRAMIENTAS / TOOL VEST / VESTE PORTE - OUTILS / WERKZEUGWESTE / GILET PORTAUTENSILI / COLETE PORTA FERRAMENTAS / ЖИЛЕТ ДЛЯ НОШЕНИЯ ИНСТРУМЕНТА**

| COD.  | L x W (mm) |
|-------|------------|
| 51015 | 510 x 600  |




**CINTURÓN PORTAHERRAMIENTAS / TOOL BELT / CEINTURE PORTE - OUTILS / WERKZEUGGÜRTEL / CINTURA PORTAUTENSILI / CINTURAO PORTA FERRAMENTAS / ИНСТРУМЕНТАЛЬНЫЙ ПОЯС**

| COD.  | L (inch) | Kg-MAX |
|-------|----------|--------|
| 51009 | 32-44    | 15     |


**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                            |    |
|------------------------------------------------------------|----|
| Bolsillos laterales / Side compartments / Poches latérales | 21 |
|------------------------------------------------------------|----|


**BOLSA 14 BOLSILLOS / 14 POCKETS NYLON BAG / TROUSSE 14 POCHEs / NYON TASCHE MIT 14 FÄCHER / BORSA CON 14 TASCHE / BOLSA 14 BOLSOS / НЕЙЛОНОВАЯ СУМКА (14 ОТДЕЛЕНИЙ)**

| COD.  |  |  |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 50930 | 14                                                                                | 280                                                                               |


**BOLSA 7 BOLSILLOS / 7 POCKETS NYLON BAG / TROUSSE 7 POCHEs / NYLON TASCHE MIT 7 FÄCHER / BORSA CON 7 TASCHE / BOLSA 7 BOLSOS / НЕЙЛОНОВАЯ СУМКА (7 ОТДЕЛЕНИЙ)**

| COD.  |  |  |
|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 50931 | 7                                                                                   | 250                                                                                 |


**BOLSA 6 BOLSILLOS / 6 POCKETS NYLON BAG / TROUSSE 6 POCHEs / NYLON TASCHE MIT 6 FÄCHER / BORSA CON 6 TASCHE / BOLSA 6 BOLSOS / НЕЙЛОНОВАЯ СУМКА (6 ОТДЕЛЕНИЙ)**

| COD.  |  |  |
|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 90162 | 6                                                                                   | 115                                                                                 |


**ACCESORIO PARA MARTILLO / ACCESSORY FOR HAMMER / ACCESSOIRE POUR MARTEAU / ZUBEHÖR F/HAMMER / ACCESSORIO PER MARTELLO / ACESSÓRIO PARA MARTELO / ПОЯСНОЙ КАРМАН ДЛЯ МОЛОТКА**

| COD.  |  |
|-------|-------------------------------------------------------------------------------------|
| 50932 | 90                                                                                  |


**CINTO / BELT / CEINTURE / RIEM / CINTURONE / CINTO / ПОЯС**

| COD.  | L (mm) |  |
|-------|--------|-------------------------------------------------------------------------------------|
| 50933 | 135    | 260                                                                                 |



# PROYECTOS PRINCIPALES

## MAIN PROJECTS

### PRINCIPAUX PROJETS



**AERO CONTRACTORS**

**AERONÁUTICA / AEROSPACE / AÉRONAUTIQUE**

**NIGERIA**



3

**ALICATES Y TENAZAS**  
**PLIERS AND PINCERS**  
**PINCES ET TENAILLES**  
**ZANGEN**  
**PINZE E TENAGLIE**  
**ALICATES E TURQUESES**  
**ПЛОСКОГУБЦЫ И КЛЕЩИ**




**Premio a la Innovación**  
**Certamen Metalmaq**

Lisboa 2001

**Innovation Award**  
**Metalmaq**

Lisbon 2001

**Prix a l'Innovation**  
**Metalmaq**

Lisbonne 2001

**Medalla de Bronce**
Salón Internacional  
de la Invención

París 2004

**Bronze Medal**  
**International Inventors**  
**Competition**

Paris 2004

**Medaille de Bronze**
Salon International  
de l'Invention

Paris 2004


**El más eficiente / The most efficient / Le plus efficient**
**Capacidad de corte**  
*Cutting capacity*  
**Capacité de coupe**
**60% +**
**1**

Gracias a su sistema de eje desplazado y a la tecnología aplicada en sus bocas, la capacidad de corte se ha incrementado en un 60 % respecto a los alicates tradicionales. Corta clavos de hasta 5 mm de diámetro.

*Displaced joint axle high-leverage system, together with the applied technology on the jaws, provides 60% higher cutting capacity than traditional pliers. Cuts nails up to 5mm.*

Grâce à un système d'axe déplacé, la capacité de coupe est augmentée de 60% par rapport à une pince traditionnelle. Coupe des clous de 5 mm de diamètre.

**2**

Eje poligonal extrafuerte para larga duración y suavidad de funcionamiento sin holgura.

*Polygonal super-resistant axle pin, long lasting and smooth action.*

Axe polygonal extrafort longue durée.

**3**

Sistema de engastar terminales en los alicates universales.

*Terminal Crimping system for combination pliers.*

Incluent la fonction sertissage de terminaux.

**4**

TITACROM® - Tratamiento superficial especial, resistente a la corrosión y a los golpes y roces, es antirreflejante y de gran atractivo.

*TITACROM® - Special surface treatment, rust-proof and anti-chipping off, it is non-reflecting and with very attractive finishing.*

TITACROM® - Traitement superficiel spécial, résistant à la corrosion et aux coups, anti-réfléchissant et au desing attirant.

**5**

Mango bicomponente BIMAT® ergonómico para un agarre ideal, antideslizante y cómodo.

*BIMAT® 2 component ergonomic and anti-slippery handles provide comfortable gripping.*

Manche bi-matière ergonomique pour la meilleure accroche.

**6**

Patentado.  
Patented.  
Breveté.

## ■ ALICATES / PLIERS / PINCES / ZANGEN / PINZE / ALICATES / ПЛОСКОГУБЦЫ

### ■ CARACTERÍSTICAS

- Sistema de eje desplazado, incrementando la capacidad de corte hasta en un 60 % respecto a los alicates tradicionales.
- Corta clavos de hasta 5 mm de diámetro.
- Eje poligonal extrafuerte para larga duración y suavidad.
- Los alicates universales incorporan una zona de engastar terminales.
- Titacrom®: tratamiento superficial especial, resistente a la corrosión y a los golpes, es antirreflectante y de gran atractivo.
- Mango bicomponente BIMAT ergonómico para un agarre ideal.
- Patentado.

### ■ FEATURES

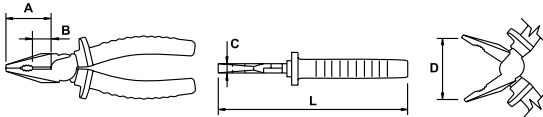
- *Displaced joint axle provides high leverage system and 60% more cutting power than standard pliers. Nails of diameter up to 5mm.*
- *Extraresistant polygonal axle pin, long lasting and smooth action.*
- *Crimping system incorporated in combination pliers for different crimping actions.*
- *Titacrom® special surface treatment, antirusty, non peel off, non reflecting and attractive finishing.*
- *Bimat ergonomic two component handle for ideal grip.*
- *Patented.*

### ■ CARACTERISTIQUES

- Grâce à un système d'axe déplacé, la capacité de coupe est augmentée de 60% par rapport à une pince traditionnelle.
- Coupe des clous de 5mm de diamètre.
- Axe polygonal extrafort longue durée.
- Les pinces universelles incluent la fonction sertissage de terminaux.
- Titacrom® traitement superficiel spécial, résistant à la corrosion et aux coups, anti-réfléchissant et au design attirant.
- Manche bi-matière BIMAT ergonomique pour la meilleure accroche.
- Breveté.

## ■ MASTERCUT TITACROM® BIMAT

### ■ UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALE / UNIVERSAIS / КОМБИНИРОВАННЫЕ



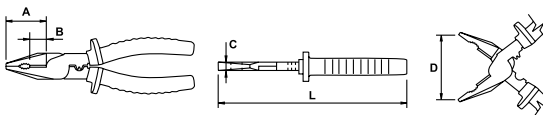
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|-------|--------|--------|--------|--------|--------|-----|-----|-----|-----|---|---|
| 62495 | 165    | 35     | 14     | 10     | 39     | 3,5 | 2,5 | 2   | 220 | 6 | ● |
| 62496 | 180    | 40     | 16     | 11     | 50     | 4   |     |     | 230 |   |   |
| 62479 | 210    | 44     | 19     |        | 60     | 4,5 | 2,8 | 2,2 | 280 |   |   |



**TITACROM® BIMAT** | DIN 5746 | Modelo registrado / Registered model / Modèle enregistré

#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V



| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |   |   |     |     |   |   |
|-------|--------|--------|--------|--------|--------|---|---|-----|-----|---|---|
| 62480 | 235    | 43     | 19     | 13     | 55     | 5 | 3 | 2,5 | 380 | 6 | ● |



**TITACROM® BIMAT** | DIN 5746 | Modelo registrado / Registered model / Modèle enregistré

#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V



Blando / Soft / Tendre  
20 Kg/mm<sup>2</sup>



Medio / Medium / Moyen  
75 Kg/mm<sup>2</sup>

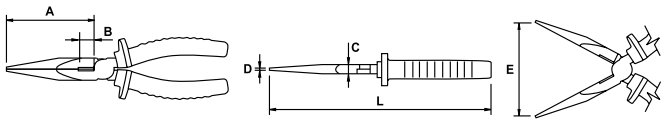


Duro / Hard / Dur  
180 Kg/mm<sup>2</sup>



Cuerda piano / Piano wire / Corde de piano  
230 Kg/mm<sup>2</sup>

**TELEFONISTA / LONG NOSE / TÉLÉPHONE / TELEFONZANGEN / TELEFONISTI / TELEFONISTA / СУДЛИННЕННЫМИ НОСАМИ**



| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) |     |     |     |     |   |   |
|-------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|---|---|
| 62498 | 160    | 55     | 11     | 9,5    | 2,5    | 46     | 3   | 2   | 1,5 | 170 | 6 | ● |
| 62499 | 200    | 75     | 15     |        | 3      | 70     | 3,5 | 2,5 | 2   | 210 |   |   |

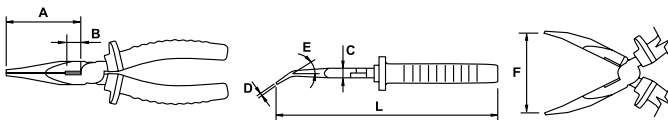


**TITACROM® Bimat** | DIN 5745 | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**TELEFONISTA BOCA CURVA / BENT NOSE PLIERS / TÉLÉPHONE BECS COUDÉS / TELEFONZANGEN GEBOGEN / TELEFONISTI BECCHI PIEGATI / TELEFONISTA PONTAS CURVAS / C ИЗОГНУТЫМИ НОСАМИ**



| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (°) | F (mm) |     |     |     |     |   |   |
|-------|--------|--------|--------|--------|--------|-------|--------|-----|-----|-----|-----|---|---|
| 62500 | 160    | 50     | 13     | 9,5    | 3      | 32    | 41     | 3   | 2   | 1,5 | 170 | 6 | ● |
| 62501 | 200    | 75     | 14     |        |        |       | 90     | 3,5 | 2,5 | 2   | 210 |   |   |

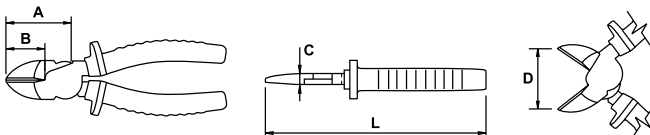


**TITACROM® Bimat** | DIN 5745 | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**CORTE DIAGONAL / DIAGONAL CUTTING PLIERS / COUPANTES DIAGONALES / SEITENSCHNEIDER / TAGLIO LATERALE / CORTE DIAGONAL / УДЛИНЕННЫЕ ТОНКИЕ**



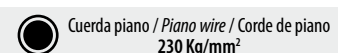
| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |     |     |     |   |   |
|-------|--------|--------|--------|--------|--------|-----|-----|-----|-----|---|---|
| 62299 | 160    | 37     | 23     | 11     | 35     | 3   | 2,5 | 2   | 210 | 6 | ● |
| 62350 | 190    | 40     | 25     |        | 29     | 3,5 | 2,7 | 2,2 | 250 |   |   |



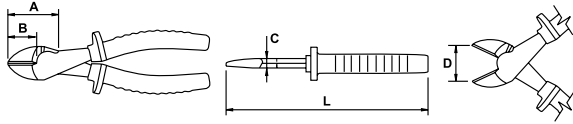
**TITACROM® Bimat** | DIN 5749 | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**CORTE DIAGONAL REFORZADO / HEAVY DUTY CUTTING NIPPERS / COUPANTES RENFORCEÉS / VERSTÄRKTER SEITENSCHNEIDER / TAGLIO LATERALE RINFORZATO / CORTE DIAGONAL REFORÇADO / УСИЛЕННЫЕ БОКОРЕЗЫ**



| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |     |     |     |   |   |
|-------|--------|--------|--------|--------|--------|-----|-----|-----|-----|---|---|
| 62300 | 180    |        |        |        | 24     | 3,5 | 2,7 | 2,2 | 350 |   |   |
| 62598 | 200    | 40     | 21     | 12     | 22     | 4   | 3   | 2,5 | 380 | 6 | ● |



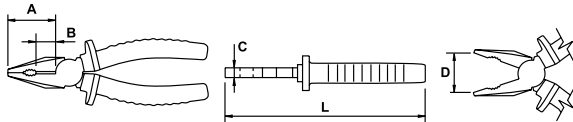
**TITACROM® BIMAT** | DIN 5749 | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**TITACROM® BIMAT**

**UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALI / UNIVERSAIS / КОМБИНИРОВАННЫЕ**



| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |     |     |     |   |   |
|-------|--------|--------|--------|--------|--------|-----|-----|-----|-----|---|---|
| 62331 | 165    | 36     | 15     | 10     | 38     | 3   | 2   | 1,5 | 240 |   |   |
| 62332 | 180    | 38     | 14     | 11     | 41     | 3,5 | 2,2 |     | 280 | 6 | ● |
| 62333 | 200    | 43     | 17     | 12     | 50     | 4   | 2,5 | 2   | 330 |   |   |

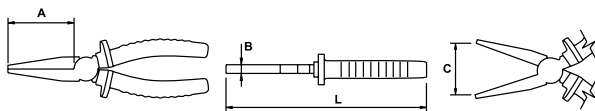


**TITACROM® BIMAT** | DIN 5746 | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**BOCA PLANA / FLAT NOSE / BECS PLATS / FLACHZANGEN / BECCHI PIATTI / PONTAS CHATAS / УТКОНОСЫ**



| COD.  | L (mm) | A (mm) | B (mm) | C (mm) |     |   |   |
|-------|--------|--------|--------|--------|-----|---|---|
| 62337 | 160    | 55     | 8,5    | 40     | 170 | 6 | ● |

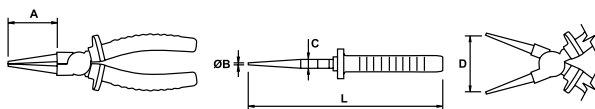


**TITACROM® BIMAT** | DIN 5745 | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**BOCA REDONDA / ROUND NOSE / BECS RONDS / RUNDZANGEN / BECCHI TONDI / PONTAS REDONDAS / КРУГЛОГУБЦЫ**



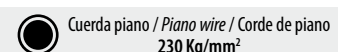
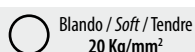
| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |   |   |
|-------|--------|--------|--------|--------|--------|-----|---|---|
| 62338 | 160    | 41     | 2      | 10     | 39     | 160 | 6 | ● |



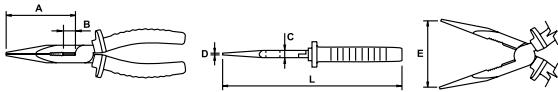
**TITACROM® BIMAT** | DIN 5745 | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**TELEFONISTA / LONG NOSE / TÉLÉPHONE / TELEFONZANGEN / TELEFONISTI / TELEFONISTA / СУДЛИННЕННЫМИ НОСАМИ**



| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) |     |     |     |     |   |   |
|-------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|---|---|
| 62339 | 160    | 48     | 12     | 9,5    | 2,3    | 50     | 2,5 | 1,6 | 1   | 170 | 6 | • |
| 62340 | 200    | 70     | 14     | 10,5   | 2,6    | 80     | 3,2 | 2,2 | 1,5 | 210 | 6 | • |

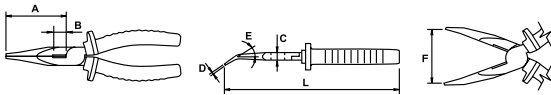
TITACROM<sup>®</sup> **BMAT** | DIN 5745 | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**TELEFONISTA BOCA CURVA / BENT NOSE PLIERS / TÉLÉPHONE BECS COUDÉS / TELEFONZANGEN GEBOGEN / TELEFONISTI BECCHI PIEGATI / TELEFONISTA PONTAS CURVAS / C ИЗОГНУТЫМИ НОСАМИ**



| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (°) | F (mm) |     |     |     |     |   |   |
|-------|--------|--------|--------|--------|--------|-------|--------|-----|-----|-----|-----|---|---|
| 62341 | 160    | 41     | 12     | 9,0    | 2,7    | 32    | 47     | 2,5 | 1,6 | 1   | 170 | 6 | • |
| 62342 | 200    | 65     | 14     | 11     | 3,3    | 32    | 70     | 3,2 | 2,2 | 1,5 | 210 | 6 | • |

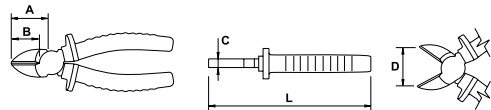
TITACROM<sup>®</sup> **BMAT** | DIN 5745 | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**CORTE DIAGONAL / DIAGONAL CUTTING PLIERS / COUPANTES DIAGONALES / SEITENSCHNEIDER / TAGLIO LATERALE / CORTE DIAGONAL / УДЛИНЕННЫЕ ТОНКИЕ**



| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |     |     |     |   |   |
|-------|--------|--------|--------|--------|--------|-----|-----|-----|-----|---|---|
| 62343 | 160    | 25     | 20     | 10     | 25     | 3   | 2,2 | 1,5 | 210 | 6 | • |
| 62540 | 190    | 32     | 26     | 11     | 29     | 3,2 | 2,5 | 2   | 250 | 6 | • |

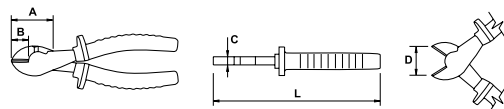
TITACROM<sup>®</sup> **BMAT** | DIN 5749 | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**CORTE DIAGONAL REFORZADO / HEAVY DUTY CUTTING NIPPERS / COUPANTES RENFORCÉS / VERSTÄRKTER SEITENSCHNEIDER / TAGLIO LATERALE RINFORZATO / CORTE DIAGONAL REFORÇADO / УСИЛЕННЫЕ БОКОРЕЗЫ**



| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |     |     |     |   |   |
|-------|--------|--------|--------|--------|--------|-----|-----|-----|-----|---|---|
| 62344 | 180    | 43     | 21     | 11     | 25     | 3,2 | 2,5 | 2   | 350 | 6 | • |
| 62370 | 200    | 48     | 21     | 11     | 21     | 3,5 | 2,7 | 2,2 | 380 | 6 | • |

TITACROM<sup>®</sup> **BMAT** | DIN 5749 | Modelo registrado / Registered model / Modèle enregistré

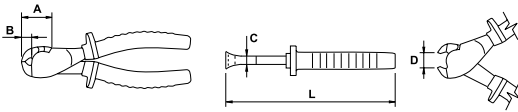
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V





**CORTE FRONTAL / END CUTTING NIPPER / COUPANTES DEVANT / VORSCHNEIDER / TAGLIO FRONTALE / CORTE FRONTAL / КЛЕЩИ**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |   |     |   |     |   |   |
|--------------|--------|--------|--------|--------|--------|---|-----|---|-----|---|---|
| <b>62345</b> | 160    | 27     | 9      | 11     | 9      | 3 | 2,5 | 2 | 250 | 6 | ● |

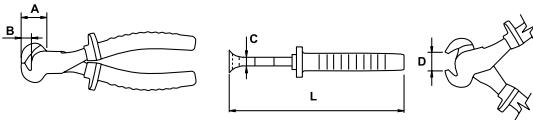
TITACROM<sup>®</sup> **BMAT** | DIN 5748 | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**CORTE FRONTAL ELECTRICISTA / END CUTTING NIPPER (ELECTRICIAN) / COUPANTES DEVANT ELECTRICIEN / ELEKTRIKER VORSCHNEIDER / TAGLIO FRONTALE PER ELETTRICISTI / CORTE FRONTAL ELETTRICISTA / КЛЕЩИ (ЭЛЕКТРИЧЕСКИЕ)**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |     |   |     |   |   |
|--------------|--------|--------|--------|--------|--------|-----|-----|---|-----|---|---|
| <b>62346</b> | 160    | 20     | 9      | 11     | 19     | 3   | 2,3 | 2 | 250 | 6 | ● |
| <b>62348</b> | 200    | 22     | 11     | 14     |        | 3,5 | 2,8 | 2 | 410 |   |   |

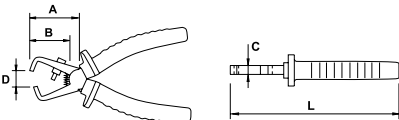
TITACROM<sup>®</sup> **BMAT** | DIN 5748 | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**PELACABLES / WIRESTRIPPER / PINCES À DÉNUDER / ABISOLIERZANGEN / PINZE SPELAFILI / DECAPADORES / КЛЕЩИ ДЛЯ ЗАЧИСТКИ КОНТАКТОВ**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |       |     |   |   |
|--------------|--------|--------|--------|--------|--------|-------|-----|---|---|
| <b>62349</b> | 160    | 44     | 37     | 9      | 21     | 0,5-6 | 170 | 6 | ● |

TITACROM<sup>®</sup> **BMAT** | DIN 5743 | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



Blando / Soft / Tendre  
20 Kg/mm<sup>2</sup>



Medio / Medium / Moyen  
75 Kg/mm<sup>2</sup>



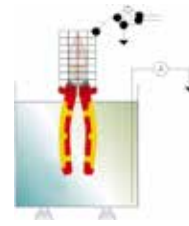
Duro / Hard / Dur  
180 Kg/mm<sup>2</sup>



Cuerda plano / Piano wire / Corde de piano  
230 Kg/mm<sup>2</sup>

■ **MASTERCUT TITACROM® BIMAT 1000V**

**1000V** **IEC 60900**



Test dieléctrico a 10.000V  
 Dielectric test at 10.000V  
 Test dielectrique a 10.000V  
 Hochspannungstest 10.000V  
 Test dielettrico a 10.000V  
 Teste electrico 10.000V  
 Диэлектрический тест на 10.000в



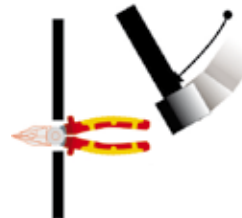
Test de adherencia de mangos  
 Testing of adhesiveness  
 Test d'adherence  
 Klebtest  
 Test di aderenza dei manici  
 Teste de aderência dos cabos  
 Тест проскальзывание



Test de propagación de llama  
 Heat resistance test  
 Test de combustibilitat  
 Hitzebeständigkeitsprüfung  
 Test di diffusione della fiamma  
 Teste de propagação de chama  
 Тест на термическую стойкость

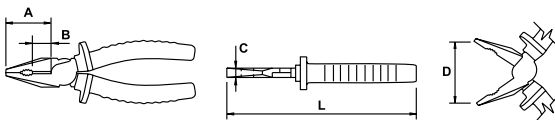


Test de penetración  
 Penetration test  
 Test de penetration  
 Di-Elektrische Prüfung  
 Prova dielettrica  
 Teste de penetração  
 Тест на антикоррозионную устойчивость



Test de impacte  
 Impact test  
 Test d'impact  
 Schlagbiegefestigkeitsprüfung  
 Test di resa ad impatto  
 Teste de impacto  
 Ударный тест

■ **UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALI / UNIVERSAIS / КОМБИНИРОВАННЫЕ**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |    |     |     |     |     |   |   |
|--------------|--------|--------|--------|--------|--------|----|-----|-----|-----|-----|---|---|
| <b>76606</b> | -      | 165    | 35     | 14     | 10     | 39 | 3,5 | 2,5 | 2   | 220 |   |   |
| <b>76607</b> |        | 180    | 40     | 16     | 11     | 50 | 4   |     |     | 230 | 6 | ● |
| <b>76609</b> |        | 210    | 44     | 19     |        | 60 | 4,5 | 2,8 | 2,2 | 280 |   |   |

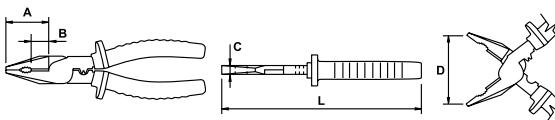


**TITACROM® BIMAT** **1000V** | DIN 5746 | IEC 60900

Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |   |   |     |     |   |   |
|--------------|--------|--------|--------|--------|--------|---|---|-----|-----|---|---|
| <b>76611</b> | 235    | 43     | 19     | 13     | 55     | 5 | 3 | 2,5 | 380 | 6 | ● |



**TITACROM® BIMAT** **1000V** | DIN 5746 | IEC 60900

Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

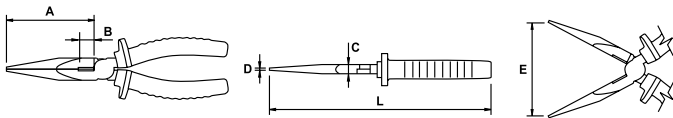
Blando / Soft / Tendre  
20 Kg/mm<sup>2</sup>

Medio / Medium / Moyen  
75 Kg/mm<sup>2</sup>

Duro / Hard / Dur  
180 Kg/mm<sup>2</sup>

Cuerda piano / Piano wire / Corde de piano  
230 Kg/mm<sup>2</sup>

**TELEFONISTA / LONG NOSE / TÉLÉPHONE / TELEFONZANGEN / TELEFONISTI / TELEFONISTA / СУДЛИННЕННЫМИ НОСАМИ**



| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | mm  | mm  | mm  | g   |   |   |
|-------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|---|---|
| 76612 | 160    | 55     | 11     | 9,5    | 2,5    | 46     | 3   | 2   | 1,5 | 170 | 6 | • |
| 76613 | 200    | 75     | 15     | 9,5    | 3      | 70     | 3,5 | 2,5 | 2   | 210 | 6 | • |



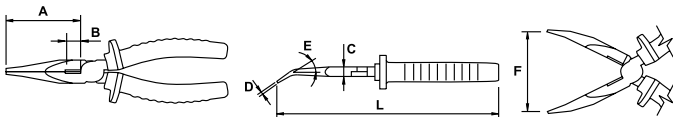
**TITACROM® BMAT** 1000V | DIN 5745 | IEC 60900

Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**TELEFONISTA BOCA CURVA / BENT NOSE PLIERS / TÉLÉPHONE BECS COUDÉS / TELEFONZANGEN GEBOGEN / TELEFONISTI BECCHI PIEGATI / TELEFONISTA PONTAS CURVAS / С ИЗОГНУТЫМИ НОСАМИ**



| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (°) | F (mm) | mm  | mm  | mm  | g   |   |   |
|-------|--------|--------|--------|--------|--------|-------|--------|-----|-----|-----|-----|---|---|
| 76614 | 160    | 50     | 13     | 9,5    | 3      | 32    | 41     | 3   | 2   | 1,5 | 170 | 6 | • |
| 76615 | 200    | 75     | 14     | 9,5    | 3      | 32    | 90     | 3,5 | 2,5 | 2   | 210 | 6 | • |



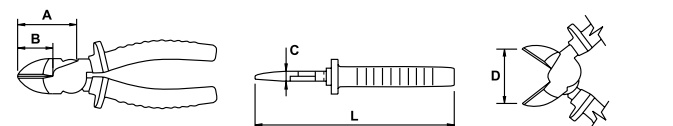
**TITACROM® BMAT** 1000V | DIN 5745 | IEC 60900

Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**CORTE DIAGONAL / DIAGONAL CUTTING PLIERS / COUPANTES DIAGONALES / SEITENSCHNEIDER / TAGLIO LATERALE / CORTE DIAGONAL / УДЛИНЕННЫЕ ТОНКИЕ**



| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | mm  | mm  | mm  | g   |   |   |
|-------|--------|--------|--------|--------|--------|-----|-----|-----|-----|---|---|
| 76616 | 160    | 37     | 23     | 11     | 35     | 3   | 2,5 | 2   | 210 | 6 | • |
| 76617 | 190    | 40     | 25     | 11     | 29     | 3,5 | 2,7 | 2,2 | 250 | 6 | • |

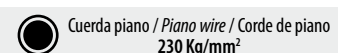


**TITACROM® BMAT** 1000V | DIN 5749 | IEC 60900

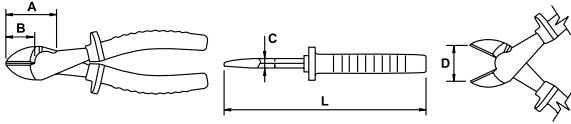
Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**CORTE DIAGONAL REFORZADO / HEAVY DUTY CUTTING NIPPERS / COUPANTES RENFORCEÉS / VERSTÄRKTER SEITENSCHNEIDER / TAGLIO LATERALE RINFORZATO / CORTE DIAGONAL REFORÇADO / УСИЛЕННЫЕ БОКОРЕЗЫ**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |     |     |     |   |   |
|--------------|--------|--------|--------|--------|--------|-----|-----|-----|-----|---|---|
| <b>76618</b> | 180    |        |        |        | 24     | 3,5 | 2,7 | 2,2 | 350 | 6 | • |
| <b>76619</b> | 200    | 40     | 21     | 12     | 22     | 4   | 3   | 2,5 | 380 |   |   |



**TITACROM® BIMAT** 1000V | DIN 5749 | IEC 60900

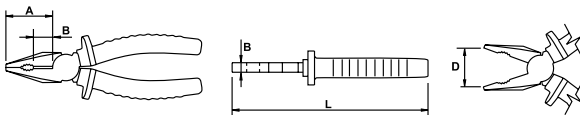
Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**TITACROM® BIMAT 1000V**

**UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALI / UNIVERSAIS / КОМБИНИРОВАННЫЕ**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |     |     |     |   |   |
|--------------|--------|--------|--------|--------|--------|-----|-----|-----|-----|---|---|
| <b>76582</b> | 165    | 36     | 15     | 10     | 38     | 3   | 2   | 1,5 | 240 |   |   |
| <b>76583</b> | 180    | 38     | 14     | 11     | 41     | 3,5 | 2,2 |     | 280 | 6 | • |
| <b>76584</b> | 200    | 43     | 17     | 12     | 50     | 4   | 2,5 | 2   | 330 |   |   |



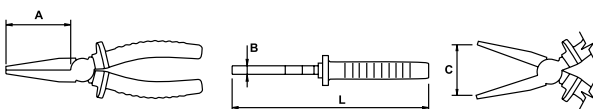
**TITACROM® BIMAT** 1000V | DIN 5746 | IEC 60900

Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**BOCA PLANA / FLAT NOSE / BECS PLATS / FLACHZANGEN / BECCHI PIATTI / PONTAS CHATAS / УТКОНОСЫ**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) |     |   |   |
|--------------|--------|--------|--------|--------|-----|---|---|
| <b>76589</b> | 160    | 55     | 8,5    | 40     | 170 | 6 | • |

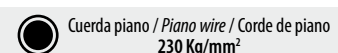


**TITACROM® BIMAT** 1000V | DIN 5745 | IEC 60900

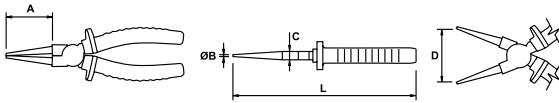
Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**BOCA REDONDA / ROUND NOSE / BECS RONDS / RUNDZANGEN / BECCHI TONDI / PONTAS REDONDAS / КРУГЛОГУБЦЫ**



| COD.         |  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |   |   |
|--------------|--|--------|--------|--------|--------|--------|-----|---|---|
| <b>76590</b> |  | 160    | 41     | 2      | 10     | 39     | 160 | 6 | • |

TITACROM<sup>®</sup> **BMAT** 1000V | DIN 5745 | IEC 60900

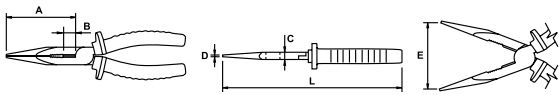
Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**TELEFONISTA / LONG NOSE / TÉLÉPHONE / TELEFONZANGEN / TELEFONISTI / TELEFONISTA / СУДЛИННЕННЫМИ НОСАМИ**



| COD.         |  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) |     |     |     |     |   |   |
|--------------|--|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|---|---|
| <b>76591</b> |  | 160    | 48     | 12     | 9,5    | 2,3    | 50     | 2,5 | 1,6 | 1   | 170 | 6 | • |
| <b>76592</b> |  | 200    | 70     | 14     | 10,5   | 2,6    | 80     | 3,2 | 2,2 | 1,5 | 210 | 6 | • |

TITACROM<sup>®</sup> **BMAT** 1000V | DIN 5745 | IEC 60900

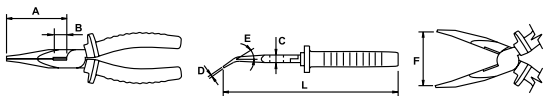
Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**TELEFONISTA BOCA CURVA / BENT NOSE PLIERS / TÉLÉPHONE BECS COUDÉS / TELEFONZANGEN GEBOGEN / TELEFONISTI BECCHI PIEGATI / TELEFONISTA PONTAS CURVAS / С ИЗОГНУТЫМИ НОСАМИ**



| COD.         |  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (°) | F (mm) |     |     |     |     |   |   |
|--------------|--|--------|--------|--------|--------|--------|-------|--------|-----|-----|-----|-----|---|---|
| <b>76593</b> |  | 160    | 41     | 12     | 9,0    | 2,7    | 32    | 47     | 2,5 | 1,6 | 1   | 160 | 6 | • |
| <b>76594</b> |  | 200    | 65     | 14     | 11     | 3,3    |       | 70     | 3,2 | 2,2 | 1,5 | 210 | 6 | • |

TITACROM<sup>®</sup> **BMAT** 1000V | DIN 5745 | IEC 60900

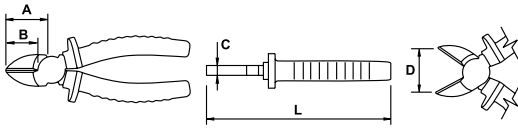
Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**CORTE DIAGONAL / DIAGONAL CUTTING PLIERS / COUPANTES DIAGONALES / SEITENSCHNEIDER / TAGLIO LATERALE / CORTE DIAGONAL / УДЛИНЕННЫЕ ТОНКИЕ**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |     |     |     |   |   |
|--------------|--------|--------|--------|--------|--------|-----|-----|-----|-----|---|---|
| <b>76595</b> | 160    | 25     | 20     | 10     | 25     | 3   | 2,2 | 1,5 | 205 | 6 | • |
| <b>76596</b> | 190    | 32     | 26     | 11     | 29     | 3,2 | 2,5 | 2   | 250 |   |   |

**TITACROM<sup>®</sup> B/MAT** 1000V | DIN 5749 | IEC 60900

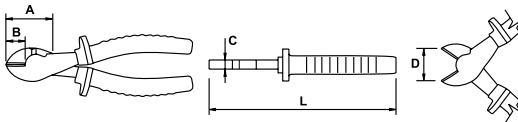
Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**CORTE DIAGONAL REFORZADO / HEAVY DUTY CUTTING NIPPERS / COUPANTES RENFORCÉS / VERSTÄRKTER SEITENSCHNEIDER / TAGLIO LATERALE RINFORZATO / CORTE DIAGONAL REFORÇADO / УСИЛЕННЫЕ БОКОРЕЗЫ**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |     |     |     |   |   |
|--------------|--------|--------|--------|--------|--------|-----|-----|-----|-----|---|---|
| <b>76597</b> | 180    | 43     | 21     | 11     | 25     | 3,2 | 2,5 | 2   | 350 | 6 | • |
| <b>76598</b> | 200    | 48     |        |        | 21     | 3,5 | 2,7 | 2,2 | 380 |   |   |

**TITACROM<sup>®</sup> B/MAT** 1000V | DIN 5749 | IEC 60900

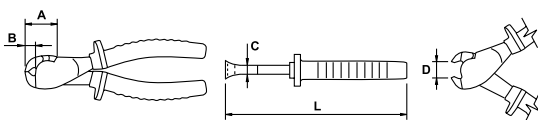
Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**CORTE FRONTAL / END CUTTING NIPPER / COUPANTES DEVANT / VORSCHNEIDER / TAGLIO FRONTALE / CORTE FRONTAL / КЛЕЩИ**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |   |     |   |     |   |   |
|--------------|--------|--------|--------|--------|--------|---|-----|---|-----|---|---|
| <b>76599</b> | 160    | 27     | 9      | 11     | 9      | 3 | 2,5 | 2 | 250 | 6 | • |

**TITACROM<sup>®</sup> B/MAT** 1000V | DIN 5748 | IEC 60900

Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



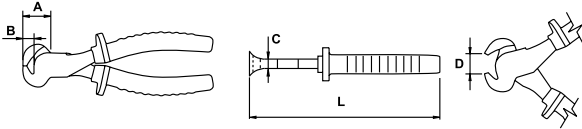
Blando / Soft / Tendre  
20 Kg/mm<sup>2</sup>

Medio / Medium / Moyen  
75 Kg/mm<sup>2</sup>

Duro / Hard / Dur  
180 Kg/mm<sup>2</sup>

Cuerda piano / Piano wire / Corde de piano  
230 Kg/mm<sup>2</sup>

**CORTE FRONTAL ELECTRICISTA / END CUTTING NIPPER (ELECTRICIAN) / COUPANTES DEVANT ELECTRICIEN / ELEKTRIKER VORSCHNEIDER / TAGLIO FRONTALE PER ELETTRICISTI / CORTE FRONTAL ELETTRICISTA / КЛЕЩИ (ЭЛЕКТРИЧЕСКИЕ)**



| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |     |   |     |   |   |
|-------|--------|--------|--------|--------|--------|-----|-----|---|-----|---|---|
| 76600 | 160    | 20     | 9      | 11     | 19     | 3   | 2,3 | 2 | 250 | 6 | • |
| 76602 | 200    | 22     | 11     | 14     |        | 3,5 | 2,8 |   | 410 |   |   |

TITACROM® **BIMAT** 1000V | DIN 5748 | IEC 60900

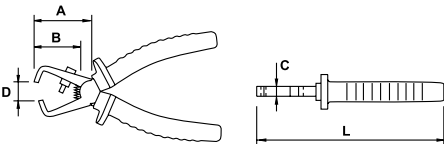
Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**PELACABLES / WIRESTRIPPER / PINCES À DÉNUDER / ABISOLIERZANGEN / PINZE SPELAFILI / DECAPADORES / КЛЕЩИ ДЛЯ ЗАЧИСТКИ КОНТАКТОВ**



| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |       |     |   |   |
|-------|--------|--------|--------|--------|--------|-------|-----|---|---|
| 76603 | 160    | 44     | 37     | 9      | 21     | 0,5-6 | 170 | 6 | • |

TITACROM® **BIMAT** 1000V | DIN 5743 | IEC 60900

Modelo registrado / Registered model / Modèle enregistré

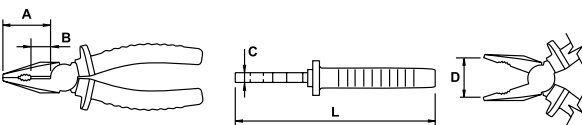
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**PULIDOS BIMAT / POLISHED BIMAT / POLIE BIMAT / GESCHLIEFEN BIMAT / FINITURA LUCIDA BIMAT / POLIDOS BIMAT / ОТПОЛИРОВАНО BIMAT**

**UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALI / UNIVERSAIS / КОМБИНИРОВАННЫЕ**

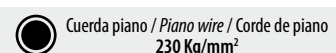


| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |   |     |     |     |   |   |
|-------|--------|--------|--------|--------|--------|---|-----|-----|-----|---|---|
| 62450 | 160    | 36     | 15     | 10     | 38     | 3 | 2   | 1,5 | 240 |   |   |
| 62452 | 200    | 43     | 17     | 12     | 50     | 4 | 2,5 | 2   | 330 | 6 | • |

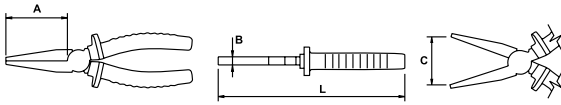
**BIMAT** | DIN 5745 | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**BOCA PLANA / FLAT NOSE / BECS PLATS / FLACHZANGEN / BECCHI PIATTI / PONTAS CHATAS / УТКОНОСЫ**



| COD.  | L (mm) | A (mm) | B (mm) | C (mm) |     |   |   |
|-------|--------|--------|--------|--------|-----|---|---|
| 62453 | 160    | 55     | 8,5    | 40     | 150 | 6 | ● |

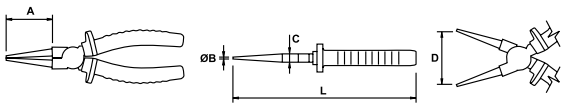
**BMAT** DIN 5745 | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**BOCA REDONDA / ROUND NOSE / BECS ROUNDS / RUNDZANGEN / BECCHI TONDI / PONTAS REDONDAS / КРУГЛОГУБЦЫ**



| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |   |   |
|-------|--------|--------|--------|--------|--------|-----|---|---|
| 62454 | 160    | 41     | 2      | 10     | 39     | 140 | 6 | ● |

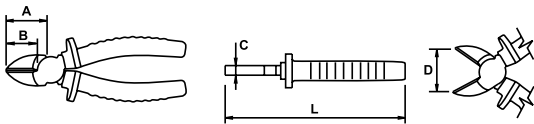
**BMAT** DIN 5745 | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**CORTE DIAGONAL / DIAGONAL CUTTING PLIERS / COUPANTES DIAGONALES / SEITENSCHNEIDER / TAGLIO LATERALE / CORTE DIAGONAL / УДЛИНЕННЫЕ ТОНКИЕ**



| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |   |     |     |     |   |   |  |
|-------|--------|--------|--------|--------|--------|---|-----|-----|-----|---|---|--|
| 62459 | 160    | 25     | 20     | 10     | 25     | 3 | 2,2 | 1,5 | 210 | 6 | ● |  |

**BMAT** DIN 5749 | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**UNIVERSAL MOD. ELECTRICISTA / LINESMAN'S / ELECTRICIEN / KOMBIZANGEN / UNIVERSALE MOD. PER ELETTRICISTI / UNIVERSAL MOD. ELETRICISTA / ЭЛЕКТРИЧЕСКИЕ ПЛОСКОГУБЦЫ**

| COD.  | L (mm) |     |   |   |
|-------|--------|-----|---|---|
| 62074 | 250    | 480 | 6 | ● |

**BMAT**





- **ALICATES CIRCLIPS / CIRCLIPS PLIERS / PINCES POUR CIRCLIPS / ZANGEN FÜR SICHERUNGSRINGE / PINZE PER ANELLI / ALICATES FREIOS / СЪЕМНИК КОЛЕЦ**
- **PAVONADO / BLACK FINISHED / BRUNIE / BRÜNIERT / BRUNITO / BRUNIDO / ЧЕРНЕННЫЕ**
- **EXTERIOR RECTO / EXTERNAL STRAIGHT / EXTERIEUR DROIT / AUSSENSICHERUNGSRINGE, GERADE / DIRITTA PER ESTERNI / EXTERIOR DIREITO / НАРУЖНЫЕ ПРЯМЫЕ**

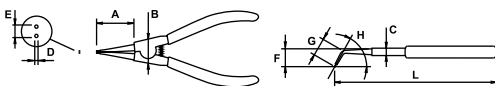


| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | O.D. mm | g   | 6 | • |
|-------|--------|--------|--------|--------|--------|--------|---------|-----|---|---|
| 62214 | 150    | 36     | 23     | 8,5    | 0,9    | 3,8    | 3-10    | 105 |   |   |
| 62215 |        |        |        | 9,5    | 1,2    | 4,5    | 10-25   |     |   |   |
| 62183 | 175    | 43     | 25     |        | 1,8    |        | 19-60   | 140 | 6 | • |
| 62216 | 230    | 55     | 29     | 11     | 2,4    | 5,5    | 40-100  | 280 |   |   |
| 62217 | 320    | 75     | 37     | 13     | 3,1    | 9,0    | 85-200  | 470 |   | - |

DIN 5254



- **EXTERIOR CURVO / EXTERNAL BENT / EXTERIEUR COUDÉ / BACKEN UM 90 GEBOGEN / PIEGATO PER ESTERNI / EXTERIOR CURVO / НАРУЖНЫЕ ИЗОГНУТЫЕ**

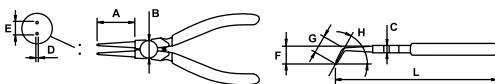


| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (°) | O.D. mm | g   | 6 | • |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|---------|-----|---|---|
| 62218 | 140    |        |        | 8,5    | 0,9    | 4,5    | 14     |        |       | 3-10    | 105 |   |   |
| 62219 | 145    | 30     | 22     |        | 1,3    | 5,0    | 15     | 15     | 50    | 10-25   |     |   |   |
| 62182 | 170    |        |        | 9,5    | 1,8    |        | 18     | 18     |       | 19-60   | 140 | 6 | • |
| 62220 | 210    | 37     | 25     | 11     | 2,2    | 7,0    | 24     | 20     | 90    | 40-100  | 280 |   |   |
| 62221 | 300    | 49     | 37     | 14     | 3,2    | 9,5    | 34     | 30     |       | 85-200  | 490 |   | - |

DIN 5254



- **INTERIOR CURVO / INTERNAL BENT / INTERIEUR COUDÉ / BACKEN UM 90 GEBOGEN / PIEGATO PER INTERNI / INTERIOR CURVO / ВНУТРЕННИЕ ИЗОГНУТЫЕ**



| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (°) | O.D. mm | g   | 6 | • |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|---------|-----|---|---|
| 62226 |        |        |        | 9,0    | 1,3    | 15     | 16     | 15     | 50    | 8-13    | 100 |   |   |
| 62227 | 150    | 28     | 16     |        |        | 16     |        |        |       | 12-25   |     |   |   |
| 62180 | 170    | 33     | 18     | 10,0   | 1,7    |        | 20     | 17     |       | 19-60   | 150 | 6 | • |
| 62228 | 215    | 35     | 25     | 11     | 2,1    | 50     | 24     | 24     | 90    | 40-100  | 270 |   |   |
| 62229 | 300    | 48     | 28     | 13     | 3      | 75     | 33     | 33     |       | 85-200  | 420 |   | - |

DIN 5256



- **INTERIOR RECTO / INTERNAL STRAIGHT / INTERIEUR DROIT / INNENSICHERUNGSRINGE, GERADE / DIRITTO PER INTERNI / INTERIOR DIREITO / ВНУТРЕННИЕ ПРЯМЫЕ**



| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | O.D. mm | g   | 6 | • |
|-------|--------|--------|--------|--------|--------|--------|---------|-----|---|---|
| 62222 |        |        |        | 8,5    | 1,2    | 17     | 8-13    | 100 |   |   |
| 62223 | 150    | 36     | 16     |        | 1,3    | 19     | 12-25   |     |   |   |
| 62181 | 175    | 44     | 18     | 9,5    | 1,8    | 21     | 19-60   | 145 | 6 | • |
| 62224 | 230    | 50     | 24     | 11     | 2,2    | 75     | 40-100  | 270 |   |   |
| 62225 | 330    | 70     | 27     | 13     | 2,9    | 80     | 85-200  | 420 |   | - |

DIN 5256



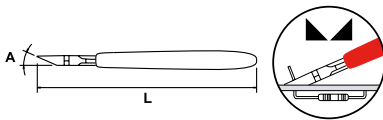
### MULTI CIRCLIPS



| COD.  | L (mm) | O.D. mm | g   |   |  |   |
|-------|--------|---------|-----|---|--|---|
| 62213 | 160    | 10-50   | 200 | 3 |  | ● |



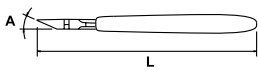
### ALICATES DE "CORTE AL RAS" / FLUSH CUTTING PLIERS / PINCES COUPANTES À RAS DIAGONALES / SEITENSCHNEIDER / PINZA A TAGLIO RASO / ALICATE DE CORTA DIAGONAL / БЫСТРОРЕЖУЩИЕ КУСАЧКИ



| COD.  | L (mm) | Max Cu-Ni | A (°) | g  |    |   |
|-------|--------|-----------|-------|----|----|---|
| 63950 | 130    | 1,2       | 25    | 70 | 12 | ● |

#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

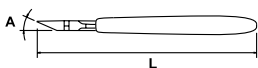
Cabeza redondeada / Rounded head / Tête ronde



| COD.  | L (mm) | Max Cu-Ni | A (°) | g  |    |   |
|-------|--------|-----------|-------|----|----|---|
| 63951 | 125    | 1,2       | 25    | 75 | 12 | ● |

#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cabeza triangular / Triangle shaped head / Tête triangulaire



| COD.  | L (mm) | Max Plastic | A (°) | g   |    |   |
|-------|--------|-------------|-------|-----|----|---|
| 63952 | 130    | 7           | 15    | 100 | 12 | ● |




### ALICATE DE BOCAS SEMI-REDONDAS Y EXTRA LARGO / EXTRA-LONG REACH HALFROND NOSE PLIER / PINCES À BEC DEMI-RONDES EXTRA-LONGUES / STORCHSCHNABELZANGE EXTRA LANG / PINZA A BECCHI MEZZATONDA EXTRA-LUNGA / ALICATE DE PONTAS SEMI REDONDAS EXTRA LONGO / СВЕРХДЛИННЫЕ КРУГЛОГУБЦЫ

| COD.  | L (mm) | °C | g   |   |  |   |
|-------|--------|----|-----|---|--|---|
| 63954 | 280    | 0  | 300 | 6 |  | ● |



| COD.         | L (mm) | °C |  |  |  |
|--------------|--------|----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>63955</b> | 275    | 45 | 250                                                                               | 6                                                                                 | ●                                                                                   |



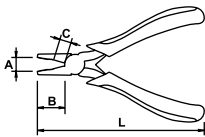
| COD.         | L (mm) | °C |  |  |  |
|--------------|--------|----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>63956</b> | 260    | 90 | 270                                                                               | 6                                                                                 | ●                                                                                   |



**MINIS PARA ELECTRÓNICA / ELECTRONIC PLIERS / PINCES ELECTRONIQUES / ELEKTRONIK-ZANGEN / PINZE PER ELETTRONICA / ALICATE DE CORTE DIAGONAL TRIANGULAR PARA ELECTRÓNICA / ПЛОСКОГУБЦЫ ДЛЯ ЭЛЕКТРОНИКИ**

■ **TITACROM® BIMAT**

■ **UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALI / UNIVERSAIS / КОМБИНИРОВАННЫЕ**

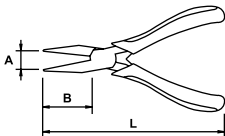





| COD.         | L (mm) | A (mm) | B (mm) | C (mm) |  |  |  |  |  |  |
|--------------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>62241</b> | 125    | 19     | 21     | 8      | 2                                                                                 | 1,5                                                                               | 1                                                                                 | 70                                                                                | 6                                                                                  | ●                                                                                   |

**TITACROM® BIMAT I DIN 9655**



■ **BOCA PLANA / FLAT NOSE / BECS PLATS / FLACHZANGEN / BECCHI PIATTI / PONTAS CHATAS / УТКОНОСЫ**

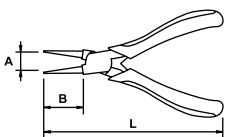





| COD.         | L (mm) | A (mm) | B (mm) |  |  |  |
|--------------|--------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>62242</b> | 125    | 21     | 28     | 65                                                                                  | 6                                                                                   | ●                                                                                     |

**TITACROM® BIMAT I DIN 9655**



■ **BOCA REDONDA / ROUND NOSE / BECS RONDS / RUNDZANGEN / BECCHI TONDI / PONTAS REDONDAS / КРУГЛОГУБЦЫ**



| COD.         | L (mm) | A (mm) | B (mm) |  |  |  |
|--------------|--------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>62243</b> | 125    | 40     | 25     | 60                                                                                  | 6                                                                                   | ●                                                                                     |

**TITACROM® BIMAT I DIN 9655**



Blando / Soft / Tendre  
20 Kg/mm<sup>2</sup>



Medio / Medium / Moyen  
75 Kg/mm<sup>2</sup>

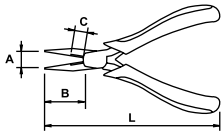


Duro / Hard / Dur  
180 Kg/mm<sup>2</sup>



Cuerda piano / Piano wire / Corde de piano  
230 Kg/mm<sup>2</sup>

**TELEFONISTA / LONG NOSE / TÉLÉPHONE / TELEFONZANGEN / TELEFONISTI / TELEFONISTA / СУДЛИННЕННЫМИ НОСАМИ**

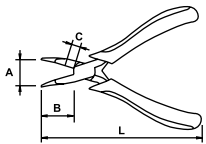


| COD.  | L (mm) | A (mm) | B (mm) | C (mm) |   |     |   |    |   |   |
|-------|--------|--------|--------|--------|---|-----|---|----|---|---|
| 62244 | 125    | 42     | 28     | 8      | 2 | 1,5 | 1 | 65 | 6 | ● |

TITACROM<sup>®</sup> **BMAT** | DIN 9655



**TELEFONISTA BOCA CURVA / BENT NOSE PLIERS / TÉLÉPHONE BECS COUDÉS / TELEFONZANGEN GEBOGEN / TELEFONISTI BECCHI PIEGATI / TELEFONISTA PONTAS CURVAS / ИЗОГНУТЫМИ НОСАМИ**

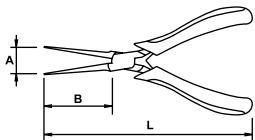


| COD.  | L (mm) | A (mm) | B (mm) | C (mm) |    |   |   |
|-------|--------|--------|--------|--------|----|---|---|
| 62245 | 125    | 44     | 26     | 9      | 65 | 6 | ● |

TITACROM<sup>®</sup> **BMAT** | DIN 9655



**BOCA AGUJA / LONG NEEDLE NOSE / LONG BECS DEMI-RONDS / FLACHZANGE MIT LANGEM MAUL / BECCHI TONDI AFFUSOLATI / PONTAS AGULHA / УДЛИННЕННЫЕ ТОНКИЕ**

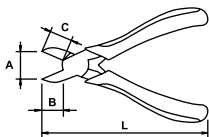


| COD.  | L (mm) | A (mm) | B (mm) |    |   |   |
|-------|--------|--------|--------|----|---|---|
| 62246 | 150    | 65     | 48     | 65 | 6 | ● |

TITACROM<sup>®</sup> **BMAT** | DIN 9655



**CORTE DIAGONAL / DIAGONAL CUTTING PLIERS / COUPANTES DIAGONALES / SEITENSCHNEIDER / TAGLIO LATERALE / CORTE DIAGONAL / УДЛИННЕННЫЕ ТОНКИЕ**

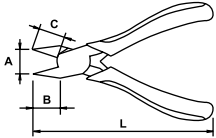


| COD.  | L (mm) | A (mm) | B (mm) | C (mm) |     |     |     |    |   |   |
|-------|--------|--------|--------|--------|-----|-----|-----|----|---|---|
| 62247 | 115    | 13     | 15     | 13     | 1,6 | 1,2 | 0,5 | 60 | 6 | ● |

TITACROM<sup>®</sup> **BMAT** | DIN 9654



**CORTE DIAGONAL TRIANGULAR / DIAGONAL CUTTING TRIANGULAR / COUPANTES DIAGONALE TRIANGULAIRE / SEITENSCHNEIDER / TAGLIO LATERALE TRIANGOLARE / CORTE DIAGONAL TRIANGULAR / БОКОРЕЗЫ ТРЕУГОЛЬНЫЕ**

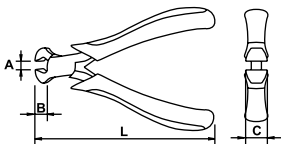


| COD.         | L (mm) | A (mm) | B (mm) | C (mm) |     |     |     |    |   |   |
|--------------|--------|--------|--------|--------|-----|-----|-----|----|---|---|
| <b>62248</b> | 115    | 25     | 14     | 13     | 1,6 | 1,2 | 0,5 | 60 | 6 | ● |

**TITACROM<sup>®</sup> Bimat I** DIN 9654



**CORTE FRONTAL / END CUTTING NIPPER / COUPANTES DEVANT / VORSCHNEIDER / TAGLIO FRONTALE / CORTE FRONTAL / КЛЕЩИ**



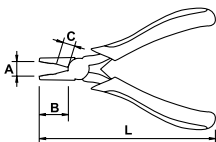
| COD.         | L (mm) | A (mm) | B (mm) | C (mm) |   |   |     |    |   |   |
|--------------|--------|--------|--------|--------|---|---|-----|----|---|---|
| <b>62249</b> | 110    | 19     | 7,5    | 17     | 2 | 1 | 0,5 | 60 | 6 | ● |

**TITACROM<sup>®</sup> Bimat I** DIN 9654



**DESCARGA ELECTROSTÁTICA / ELECTRO STATIC DISCHARGE / DÉCHARGE ÉLECTROSTATIQUE / ELEKTROSTATISCHE ABLADUNG / SCARICA ELETTRICITA STATICA / DESCARGA ELECTROSTÁTICA / РАЗРЯЖАТЕЛЬ СТАТИЧЕСКОГО ЭЛЕКТРИЧЕСТВА**

**UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALI / UNIVERSAIS / КОМБИНИРОВАННЫЕ**

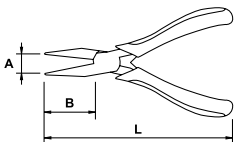


| COD.         | L (mm) | A (mm) | B (mm) | C (mm) |   |     |   |    |    |   |
|--------------|--------|--------|--------|--------|---|-----|---|----|----|---|
| <b>64730</b> | 120    | 25     | 22     | 8      | 2 | 1,5 | 1 | 75 | 12 | ● |

**ESD** **Bimat**

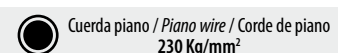


**BOCA PLANA / FLAT NOSE / BEC PLATS / FLACHZANGEN / BECCHI PIATTI / PONTAS CHATAS / УТКОНОСЫ**

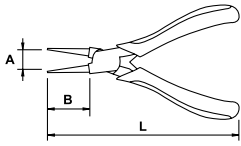


| COD.         | L (mm) | A (mm) | B (mm) |    |    |   |
|--------------|--------|--------|--------|----|----|---|
| <b>64731</b> | 135    | 38     | 36     | 90 | 12 | ● |

**ESD** **Bimat**



BOCA REDONDA / ROUND NOSE / BECS RONDS / RUNDZANGEN / BECCHI TONDI / PONTAS REDONDAS / КРУГЛОГУБЦЫ

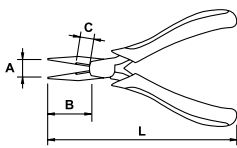


| COD.  | L (mm) | A (mm) | B (mm) |    |    |   |
|-------|--------|--------|--------|----|----|---|
| 64732 | 130    | 47     | 27     | 75 | 12 | • |

ESD



TELEFONISTA / LONG NOSE / TÉLÉPHONE / TELEFONZANGEN / TELEFONISTI / TELEFONISTA / СУДЛИННЕННЫМИ НОСАМИ

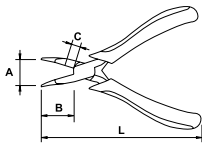


| COD.  | L (mm) | A (mm) | B (mm) | C (mm) |   |     |   |    |    |   |
|-------|--------|--------|--------|--------|---|-----|---|----|----|---|
| 64733 | 135    | 33     | 40     | 9      | 2 | 1,5 | 1 | 90 | 12 | • |

ESD



TELEFONISTA BOCA CURVA / BENT NOSE PLIERS / TÉLÉPHONE BECS COUDÉS / TELEFONZANGEN GEBOGEN / TELEFONISTI BECCHI PIEGATI / TELEFONISTA PONTAS CURVAS / ИЗОГНУТЫМИ НОСАМИ

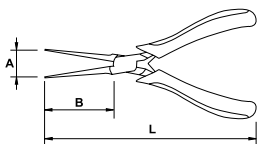


| COD.  | L (mm) | A (mm) | B (mm) | C (mm) |   |     |   |    |    |   |
|-------|--------|--------|--------|--------|---|-----|---|----|----|---|
| 64734 | 135    | 31     | 36     | 9      | 2 | 1,5 | 1 | 90 | 12 | • |

ESD



BOCA AGUJA / LONG NEEDLE NOSE / LONG BECS DEMI-RONDS / FLACHZANGE MIT LANGEM MAUL / BECCHI TONDI AFFUSOLATI / PONTAS AGULHA / УДЛИНЕННЫЕ ТОНКИЕ



| COD.  | L (mm) | A (mm) | B (mm) |    |    |   |
|-------|--------|--------|--------|----|----|---|
| 64735 | 155    | 70     | 47     | 85 | 10 | • |

ESD



Blando / Soft / Tendre  
20 Kg/mm<sup>2</sup>



Medio / Medium / Moyen  
75 Kg/mm<sup>2</sup>

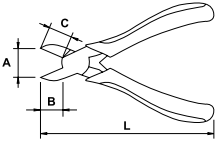


Duro / Hard / Dur  
180 Kg/mm<sup>2</sup>



Cuerda piano / Piano wire / Corde de piano  
230 Kg/mm<sup>2</sup>

**CORTE DIAGONAL / DIAGONAL CUTTING PLIERS / COUPANTES DIAGONALES / SEITENSCHNEIDER / TAGLIO LATERALE / CORTE DIAGONAL / УДЛИНЕННЫЕ ТОНКИ**

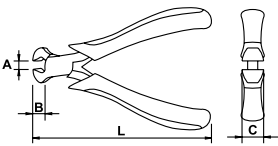


| COD.         | L (mm) | A (mm) | B (mm) | C (mm) |     |     |     |    |    |   |
|--------------|--------|--------|--------|--------|-----|-----|-----|----|----|---|
| <b>64736</b> | 120    | 18     | 14     | 13     | 1,6 | 1,2 | 0,5 | 75 | 12 | ● |

ESD **BITAT**

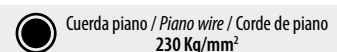
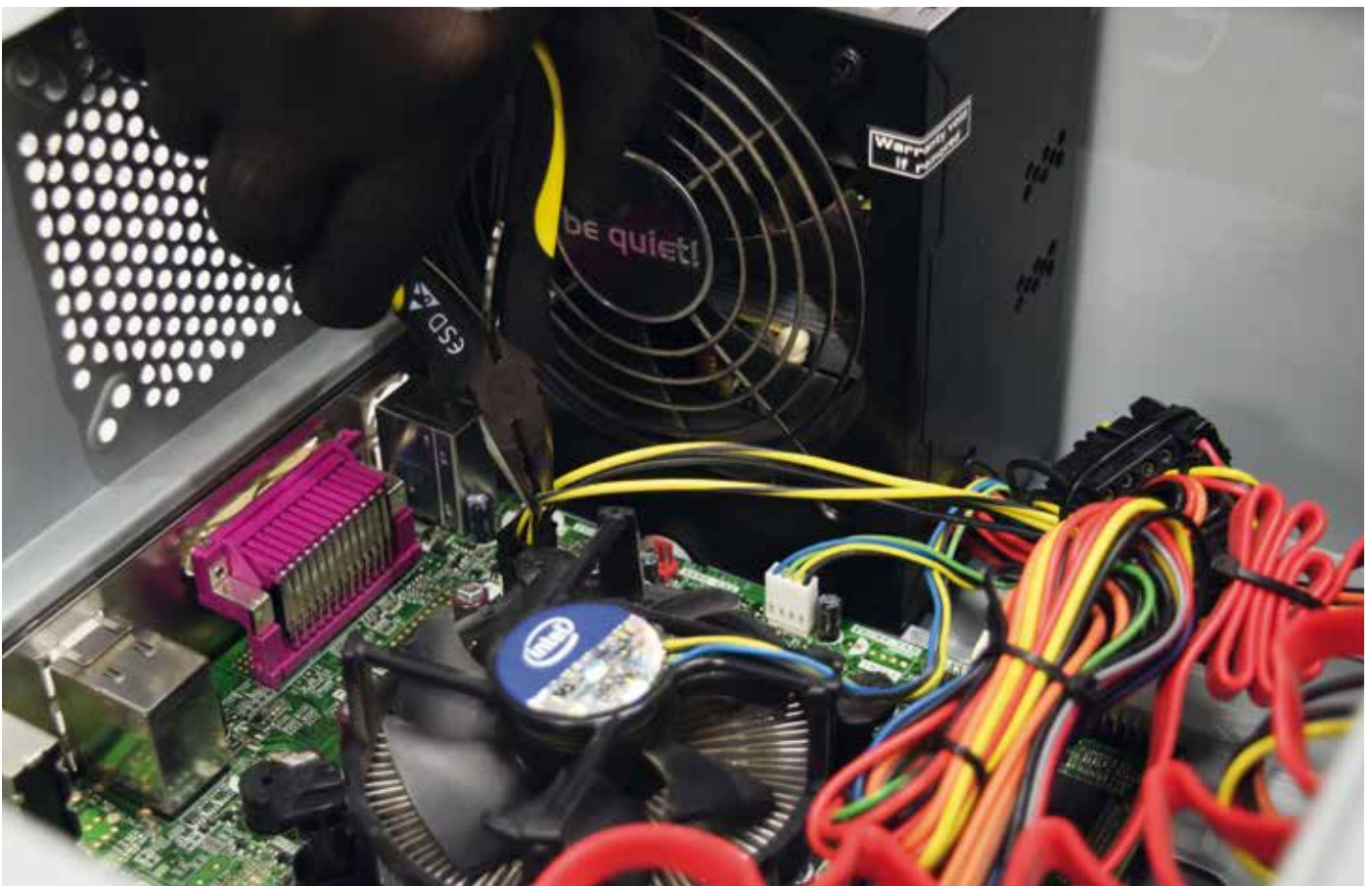


**CORTE FRONTAL / END CUTTING NIPPER / COUPANTES DEVANT / VORSCHNEIDER / TAGLIO FRONTALE / CORTE FRONTAL / КЛЕЩИ**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) |   |   |     |    |    |   |
|--------------|--------|--------|--------|--------|---|---|-----|----|----|---|
| <b>64737</b> | 110    | 10     | 9      | 18     | 2 | 1 | 0,5 | 90 | 12 | ● |

ESD **BITAT**



■ EXPOSITORES / DISPLAYS / PRESENTOIRS / DISPLAY / ESPOSITORI / DISPLAY STAND / СТЕНДЫ

■ TITACROM® BIMAT

| COD.         | PCS. |
|--------------|------|
| <b>62330</b> | 36   |

TITACROM® BIMAT

| PCS. | COD. PCS. |        |
|------|-----------|--------|
| 3    | 62331     | 165 mm |
|      | 62332     | 180 mm |
|      | 62333     | 200 mm |
|      | 62337     |        |
|      | 62338     | 160 mm |
|      | 62339     |        |
|      | 62340     | 200 mm |
|      | 62341     | 160 mm |
|      | 62342     | 200 mm |
|      | 62343     | 160 mm |
|      | 62344     | 180 mm |
|      | 62345     | 160 mm |



■ MINIS PARA ELECTRÓNICA / ELECTRONIC PLIERS / PINCES ELECTRONIQUES / ELEKTRONIK-ZANGEN / PINZE PER ELETTRONICA / ALICATE DE CORTE DIAGONAL TRIANGULAR PARA ELECTRÓNICA / ПЛОСКОГУБЦЫ ДЛЯ ЭЛЕКТРОНИКИ

■ TITACROM® BIMAT

| COD.         | PCS. |
|--------------|------|
| <b>62265</b> | 36   |

TITACROM® BIMAT

| PCS. | COD. PCS. |        |
|------|-----------|--------|
| 6    | 62241     |        |
| 3    | 62242     |        |
|      | 62243     | 125 mm |
|      | 62244     |        |
|      | 62245     |        |
| 6    | 62246     | 150 mm |
|      | 62247     |        |
| 3    | 62248     | 115 mm |
|      | 62249     | 110 mm |



■ KITS

■ TITACROM® BIMAT

| COD.         | PCS. |   |
|--------------|------|---|
| <b>69365</b> | 3    | A |
| <b>68475</b> |      | B |

TITACROM® BIMAT

| PCS. | COD. PCS. |        |
|------|-----------|--------|
| 1    | 62332     | 180 mm |
|      | 62343     |        |
|      | 62349     | 160 mm |



■ TITACROM® BIMAT

| COD.         | PCS. |   |
|--------------|------|---|
| <b>69370</b> | 3    | A |
| <b>68476</b> |      | B |

TITACROM® BIMAT

| PCS. | COD. PCS. |        |
|------|-----------|--------|
| 1    | 62332     | 180 mm |
|      | 62343     | 160 mm |
|      | 62446     | 250 mm |



○ Blando / Soft / Tendre  
 20 Kg/mm<sup>2</sup>

◐ Medio / Medium / Moyen  
 75 Kg/mm<sup>2</sup>

◑ Duro / Hard / Dur  
 180 Kg/mm<sup>2</sup>

● Cuerda piano / Piano wire / Corde de piano  
 230 Kg/mm<sup>2</sup>



### TITACROM® BIMAT

| COD.  | PCS. |   |
|-------|------|---|
| 69375 | 3    | A |
| 68477 |      | B |

### TITACROM® BIMAT

| PCS. | COD. PCS. |        |
|------|-----------|--------|
| 1    | 62332     | 180 mm |
|      | 62343     | 160 mm |
|      | 62340     | 200 mm |



### TITACROM® BIMAT

| COD.  | PCS. |   |
|-------|------|---|
| 69380 | 3    | A |
| 68478 |      | B |

### TITACROM® BIMAT

| PCS. | COD. PCS. |        |
|------|-----------|--------|
| 1    | 62332     | 180 mm |
|      | 62343     | 160 mm |
|      | 62142     | 250 mm |



### TITACROM® BIMAT 1000V

| COD.  | PCS. |   |
|-------|------|---|
| 76604 | 3    | A |
| 76605 |      | B |

### TITACROM® BIMAT

| PCS. | COD. PCS. |        |
|------|-----------|--------|
| 1    | 76607     | 180 mm |
|      | 76616     | 160 mm |
|      | 76603     |        |



### CIRCLIPS

| COD.  | PCS. |
|-------|------|
| 68540 | 4    |

| PCS. | COD. PCS. | O.D. mm |        |
|------|-----------|---------|--------|
| 1    | 62214     | 3-10    | 150 mm |
|      | 62218     |         |        |
|      | 62222     | 8-13    |        |
|      | 62226     |         |        |

| COD.  | PCS. |
|-------|------|
| 68542 | 4    |

| PCS. | COD. PCS. | O.D. mm |        |
|------|-----------|---------|--------|
| 1    | 62183     | 19-60   | 180 mm |
|      | 62182     |         | 170 mm |
|      | 62181     | 170 mm  |        |
|      | 62180     |         | 170 mm |



| COD.         | PCS. |
|--------------|------|
| <b>68541</b> | 4    |

| PCS. | COD. PCS. | O.D.<br>mm |        |
|------|-----------|------------|--------|
| 1    | 62215     | 10-25      | 150 mm |
|      | 62219     |            |        |
|      | 62223     | 12-25      |        |
|      | 62227     |            |        |

| COD.         | PCS. |
|--------------|------|
| <b>62209</b> | 4    |

| PCS. | COD. PCS. | O.D.<br>mm |        |
|------|-----------|------------|--------|
| 1    | 62216     | 40-100     | 230 mm |
|      | 62220     |            | 210 mm |
|      | 62224     |            | 220 mm |
|      | 62228     |            | 210 mm |

**MINIS PARA ELECTRÓNICA / ELECTRONIC PLIERS / PINCES ELECTRONIQUES / ELEKTRONIK-ZANGEN / PINZE PER ELETTRONICA / ALICATE DE CORTE DIAGONAL TRIANGULAR PARA ELECTRÓNICA / ПЛОСКОГУБЦЫ ДЛЯ ЭЛЕКТРОНИКИ**

**TITACROM® BIMAT**

| COD.         | PCS. |
|--------------|------|
| <b>69434</b> | 3    |

**TITACROM® BIMAT**

| PCS. | COD. PCS. |        |
|------|-----------|--------|
| 1    | 62249     | 110 mm |
|      | 62241     | 125 mm |
|      | 62247     | 115 mm |



| COD.         | PCS. |
|--------------|------|
| <b>69433</b> | 8    |

**TITACROM® BIMAT**

| PCS.  | COD. PCS. |        |
|-------|-----------|--------|
| 1     | 62244     | 125 mm |
|       | 62245     |        |
|       | 62246     | 150 mm |
|       | 62247     | 115 mm |
|       | 62249     | 110 mm |
|       | 66846     | 50 x 2 |
|       | 66850     | PH-00  |
| 69530 | -         |        |



**DESCARGA ELECTROSTÁTICA / ELECTRO STATIC DISCHARGE / DÉCHARGE ÉLECTROSTATIQUE / ELEKTROSTATISCHE ABLADUNG / SCARICA ELETTRICITA STATICA / DESCARGA ELECTROSTÁTICA / РАЗРЯЖАТЕЛЬ СТАТИЧЕСКОГО ЭЛЕКТРИЧЕСТВА**

| COD.         | PCS. |
|--------------|------|
| <b>68898</b> | 8    |

ESD **BIMAT**

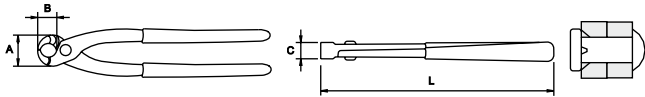
| PCS. | COD. PCS. | Descripción / Description / Description                 |           |
|------|-----------|---------------------------------------------------------|-----------|
| 1    | 64730     | Alicate universal ESD / ESD Combination plier           | 115 mm    |
|      | 64736     | Alicate corte diagonal ESD / ESD Diagonal cutting plier | -         |
|      | 64733     | Alicate telefonista ESD / ESD Long nose plier           | 135 mm    |
|      | 64742     |                                                         | 2 x 60 mm |
|      | 64744     |                                                         | 3 x 60 mm |
|      | 64747     | Destornilladores ESD / ESD Screwdrivers                 | PH00      |
|      | 64748     |                                                         | PH0       |
|      | 64749     |                                                         | PH1       |



■ **TENAZAS / PINCERS / TENAILLES / ZANGEN / TENAGLIE / ALICATES / КЛЕЩИ**

■ **TENAZA RUSA / TOWER PINCER / PINCE RUSSE / RABITZZANGE / TENAGLIA PER CEMENTISTI / TURQUES RUSSA / КЛЕЩИ**

■ **MASTERPLUS TITACROM®**

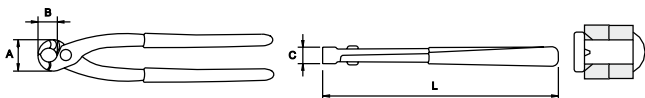


| COD.  | L (inch) | A (mm) | B (mm) | C (mm) |     |   |   |
|-------|----------|--------|--------|--------|-----|---|---|
| 62123 | 9        |        |        |        | 400 |   |   |
| 62124 | 10       | 35     | 12     | 23     | 410 | 6 | ● |
| 62125 | 11       | 37     | 16     | 26     | 470 |   |   |



**TITACROM®** | DIN 9242

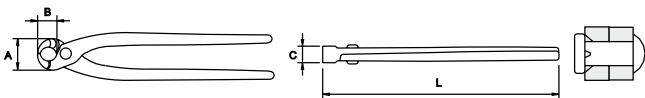
■ **MASTERPLUS**



| COD.  | L (inch) | A (mm) | B (mm) | C (mm) |     |   |   |
|-------|----------|--------|--------|--------|-----|---|---|
| 62140 | 9        |        |        |        | 400 |   |   |
| 62142 | 10       | 35     | 12     | 23     | 410 | 6 | ● |
| 62138 | 11       | 37     | 16     | 26     | 470 |   |   |



■ **DIN 9242**

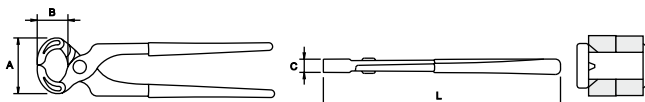


| COD.  | L (inch) | A (mm) | B (mm) | C (mm) |     |   |   |
|-------|----------|--------|--------|--------|-----|---|---|
| 62126 | 13       | 40     | 19     | 22     | 740 | 6 | ● |



■ **DIN 9242**

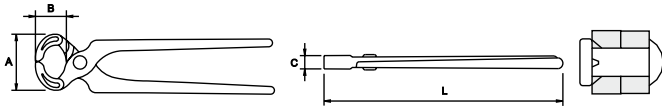
■ **TENAZA DE CARPINTERO / CARPENTER PINCER / PINCE DE MENUISIER / KANTENZANGE / TENAGLIA PER CARPENTIERI / TURQUES DE CARPINTEIRO / КЛЕЩИ ДЛЯ ПЛИТКИ**



| COD.  | L (inch) | A (mm) | B (mm) | C (mm) |     |   |   |
|-------|----------|--------|--------|--------|-----|---|---|
| 62437 | 6        | 47     | 20     | 19     | 250 |   |   |
| 62438 | 7        | 50     | 24     | 20     | 310 |   |   |
| 62439 | 8        | 55     | 26     | 21     | 380 | 6 | ● |
| 62440 | 9        |        | 27     | 25     | 400 |   |   |



DIN 9243

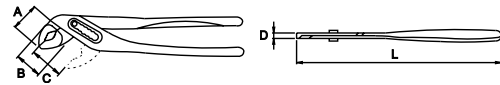


| COD.  | L (inch) | A (mm) | B (mm) | C (mm) |     |    |   |
|-------|----------|--------|--------|--------|-----|----|---|
| 62144 | 6        | 47     | 20     | 19     | 250 | 10 | • |
| 62145 | 7        | 50     | 24     | 20     | 310 |    |   |
| 62146 | 8        | 55     | 26     | 21     | 360 | 6  |   |

DIN 9243

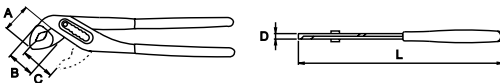


■ **TENAZA DE CANAL / BOX JOINT / MULTIPRISE ENTREPASSÉE / WASSERPUMPENZANGE / PINZE REGOLABILI / BICO DE PAPAGAIO / КЛЕЩИ ШАРНИРНЫЕ**



| COD.  | L (inch) | A (mm) | B (mm) | C (mm) | D (mm) |     |    |   |
|-------|----------|--------|--------|--------|--------|-----|----|---|
| 62133 | 7        | 28     | 28     | 25     | 7,0    | 165 | 12 | • |
| 62135 | 10       | 32     | 36     | 34     |        | 400 |    |   |
| 62134 | 12       | 43     | 38     | 46     | 8,0    | 600 | 6  |   |

DIN 8976

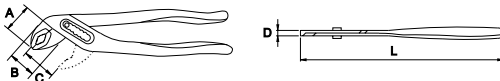


| COD.  | L (inch) | A (mm) | B (mm) | C (mm) | D (mm) |     |    |   |
|-------|----------|--------|--------|--------|--------|-----|----|---|
| 62127 | 7        | 28     | 28     | 25     | 7,0    | 165 | 12 | • |
| 62128 | 10       | 32     | 36     | 34     |        | 350 |    |   |
| 62129 | 12       | 43     | 46     | 46     | 8,0    | 500 | 6  |   |

DIN 8976



■ **BOCA FINA / NEAT TIPS / BECS FINS / FEINE BACKEN / A PUNTA FINE / PONTAS FINAS / ПИНЦЕТ ЗАОСТРЕННЫЙ**

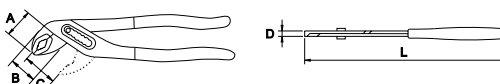


| COD.  | L (inch) | A (mm) | B (mm) | C (mm) | D (mm) |     |    |   |
|-------|----------|--------|--------|--------|--------|-----|----|---|
| 62793 | 7        | 27     | 27     | 25     | 7,0    | 170 | 12 | • |
| 62794 | 10       | 32     | 33     | 32     |        | 360 |    |   |
| 62795 | 12       | 40     | 35     | 43     | 9,0    | 570 | 6  |   |

DIN 8976



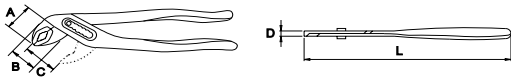
■ **CON MANGO / WITH HANDLE / AVEC MANCHE / MIT GRIFF / CON MANICO / COM CABO / С РУКОЯТКОЙ**



| COD.  | L (inch) | A (mm) | B (mm) | C (mm) | D (mm) |     |   |   |
|-------|----------|--------|--------|--------|--------|-----|---|---|
| 68555 | 7        | 27,5   | 27     | 27     | 5      | 190 | 6 | • |
| 68556 | 10       | 32     | 33     | 36     | 7      | 380 |   |   |
| 68557 | 12       | 43     | 35,5   | 39     | 9      | 610 |   |   |



## TITACROM®

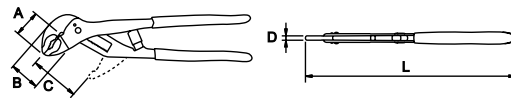


| COD.  | L (inch) | A (mm) | B (mm) | C (mm) | D (mm) | g   |   |   |
|-------|----------|--------|--------|--------|--------|-----|---|---|
| 68558 | 7        | 27,5   | 27     | 27     | 5      | 170 |   |   |
| 68559 | 10       | 32     | 33     | 36     | 7      | 350 | 6 | • |
| 68560 | 12       | 43     | 35,5   | 39     | 9      | 560 |   |   |

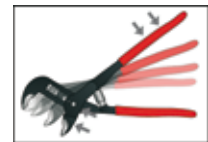


## TITACROM®

### AUTO GRIP



| COD.  | L (inch) | A (mm) | B (mm) | C (mm) | D (mm) | g   |   |   |
|-------|----------|--------|--------|--------|--------|-----|---|---|
| 62706 | 7        | 24     | 30     | 47     | 6      | 200 |   |   |
| 62707 | 10       | 30     | 39     | 59     | 7,5    | 350 | 6 | • |
| 62708 | 12       | 36     | 46     | 71     | 8      | 550 |   |   |

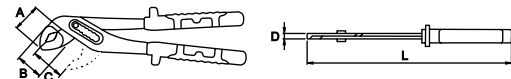


DIN 8976

### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Con efecto muelle / With spring effect / Avec effet ressort

### TITACROM® BIMAT

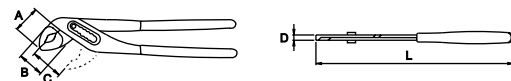


| COD.  | L (inch) | A (mm) | B (mm) | C (mm) | D (mm) | g   |   |   |
|-------|----------|--------|--------|--------|--------|-----|---|---|
| 62297 | 10       | 32     | 36     | 34     | 7,0    | 400 | 5 | • |
| 62298 | 12       | 43     | 46     | 46     | 8,0    | 610 |   |   |



## TITACROM® BIMAT | DIN 8976

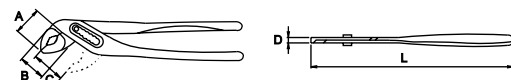
### TITACROM®



| COD.  | L (inch) | A (mm) | B (mm) | C (mm) | D (mm) | g   |   |   |
|-------|----------|--------|--------|--------|--------|-----|---|---|
| 62294 | 10       | 32     | 36     | 34     | 7,0    | 400 | 6 | • |
| 62295 | 12       | 43     | 46     | 46     | 8,0    | 610 |   |   |



## TITACROM® | DIN 8976



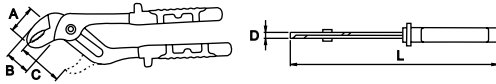
| COD.  | L (inch) | A (mm) | B (mm) | C (mm) | D (mm) | g   |    |   |
|-------|----------|--------|--------|--------|--------|-----|----|---|
| 62291 | 10       | 32     | 36     | 34     | 7,0    | 400 | 12 | • |
| 62292 | 12       | 43     | 46     | 46     | 8,0    | 600 | 6  | • |



## TITACROM® | DIN 8976

■ **PICO DE LORO / GROOVE JOINT / MULTIPRISE À CRÉMAILLÈRE / WASSERPUMPENZANGE / PINZE REGOLABILI / BICO DE PAPAGAIO / КЛЕЩИ ЖЕЛОБКОВОГО ТИПА**

■ **TITACROM® BIMAT**

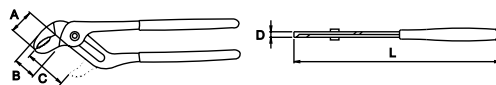


| COD.  | L (inch) | A (mm) | B (mm) | C (mm) | D (mm) |     |   |   |
|-------|----------|--------|--------|--------|--------|-----|---|---|
| 62445 | 8        | 30     | 36     | 30     | 9,0    | 300 |   |   |
| 62446 | 10       | 34     | 40     | 36     | 10     | 460 | 5 | ● |
| 62447 | 12       | 43     | 48     | 48     | 11     | 700 |   |   |

**TITACROM® BIMAT** | DIN 8976



■ **TITACROM®**

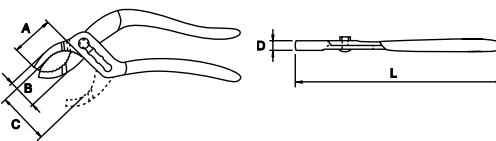


| COD.  | L (inch) | A (mm) | B (mm) | C (mm) | D (mm) |      |   |   |
|-------|----------|--------|--------|--------|--------|------|---|---|
| 62105 | 8        | 30     | 36     | 30     | 9,0    | 240  |   |   |
| 62106 | 10       | 34     | 40     | 36     | 10     | 390  |   |   |
| 62107 | 12       | 43     | 48     | 48     | 11     | 600  | 6 | ● |
| 62108 | 16       | 70     | 60     | 85     | 12     | 1300 |   | - |

**TITACROM®** | DIN 8976



■ **TENAZA DE SIFÓN / SYPHON PLIER / PINCE SANIGRIP / SIPHONZANGE / PINZA PER SIFONI / ALICATE DE SIFAŢ / КЛЕЩИ ДЛЯ СИФОНОВ**



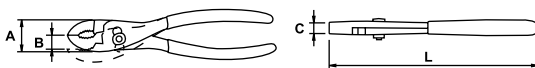
| COD.  | L (inch) | A (mm) | B (mm) | C (mm) | D (mm) |     |   |   |
|-------|----------|--------|--------|--------|--------|-----|---|---|
| 62136 | 10       | 45     | 36     | 60     | 15     | 300 | 6 | ● |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fundas blandas / Soft sleeves / Mâchoires de protection en plastique molle



■ **ALICATE TIPO FORD / SLIP JOINT PLIER / PINCE MOTORISTE / MECHANIKERZANGE / PINZE PER GASISTI / ALICATE MOTORISTA / СКОЛЬЗЯЩИЕ КЛЕЩИ**

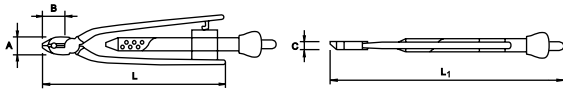


| COD.  | L (inch) | A (mm) | B (mm) | C (mm) |     |   |   |
|-------|----------|--------|--------|--------|-----|---|---|
| 62090 | 6        | 29     | 3,0    | 10     | 200 | 6 |   |
| 62091 | 8        | 31     | 8,0    | 12     | 275 | 7 | ● |
| 62092 | 10       | 39     |        |        | 430 | 8 |   |

**TITACROM®**



■ **ALICATE TRENZADOR DE ALAMBRE / WIRE TWIST PLIER / PINCE À FREINER / DRAHTWIRBELZANGE / PINZA TORCIFILO / ALICATE TORCEDOR DE ARAME / КЛЕЩИ ДЛЯ ТРОСОВ**



| COD.  | L (inch) | A (mm) | B (mm) | C (mm) | L1 (mm) |     |   |   |
|-------|----------|--------|--------|--------|---------|-----|---|---|
| 62624 | 6        | 215    | 17     | 23     | 210     | 250 |   |   |
| 62625 | 9        | 270    | 21     | 29     | 270     | 380 | 6 | ● |

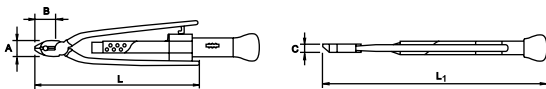


**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Resistencia a la tracción / Tensile strength-break / Résistance à la traction

75 kg/mm2: hasta 1,5 mm - 120 Kg/mm2: hasta 1 mm - 200 Kg/mm2: hasta 0,5 mm alambre / 75 kg/mm2: up to 1.5 mm - 120 Kg/mm2: up to 1 mm - 200 Kg/mm2: up to 0,5 mm wire / 75 kg/mm2: jusqu'à 1.5 mm - 120 Kg/mm2: jusqu'à 0,5 mm fil de fer

■ **REVERSIBLE / REVERSIBLE / RÉVERSIBLE / UMSCHALTBAR / REVERSIBILE / REVERSÍVEL / РЕВЕРСИВНЫЙ**



| COD.  | L (inch) | L1 (mm) | A (mm) | B (mm) | C (mm) |     |   |   |
|-------|----------|---------|--------|--------|--------|-----|---|---|
| 62627 | 6"       | 235     | 17     | 23     | 10     | 330 |   |   |
| 62628 | 9"       | 285     | 21     | 29     | 12     | 450 | 6 | ● |



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Resistencia a la tracción / Tensile strength-break / Résistance à la traction

75 kg/mm2: hasta 1,5 mm - 120 Kg/mm2: hasta 1 mm - 200 Kg/mm2: hasta 0,5 mm alambre / 75 kg/mm2: up to 1.5 mm - 120 Kg/mm2: up to 1 mm - 200 Kg/mm2: up to 0,5 mm wire / 75 kg/mm2: jusqu'à 1.5 mm - 120 Kg/mm2: jusqu'à 0,5 mm fil de fer

■ **REMACHADORAS / RIVETERS / PINCES À RIVETER / NIETER / RIVETTATRICI / ALICATES DE REBITAR / ЗАКЛЕПОЧНИКИ**

■ **REMACHADORA MANUAL / HAND RIVETER / PINCE À RIVETER MANUELLE / HANDNIETZANGE POP / RIVETTATRICE / REBITADORA MANUAL / ЗАКЛЕПОЧНИК РУЧНОЙ**

| COD.  | L (mm) | CAP. Ø |               |     |  |   |
|-------|--------|--------|---------------|-----|--|---|
| 61340 | 260    | 2,4-5  | 2,4-3,2-4-4,8 | 550 |  | ● |



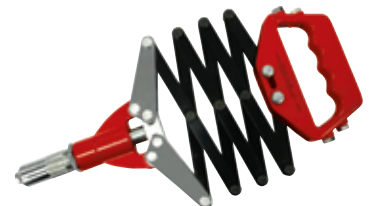
■ **REMACHADORA DE BRAZOS LARGOS / LONG ARM RIVETER / PINCE À RIVETER LONGS BRAS / LANGARM NIETZANGE / RIVETTATRICE CON BRACCIA LUNGHE / REBITADORA DE BRAÇOS / ЗАКЛЕПОЧНИК С УДЛИНЕННЫМИ РУКОЯТКАМИ**

| COD.  | L (mm) | CAP. Ø  |                 |      |  |   |
|-------|--------|---------|-----------------|------|--|---|
| 65858 | 560    | 3,2-6,4 | 3,2-4-4,8-6-6,4 | 1800 |  | ● |



■ **REMACHADORA EXTENSIBLE / EXTENDIBLE RIVETER / PINCE À RIVETER EXTENSIBLE / AUSZIEHBARE NIETZANGE / RIVETTATRICE ESTENSIBILE / REBITADORA EXTENSÍVEL / ЗАКЛЕПОЧНИК-ГАРМОШКА**

| COD.  | L (mm) | CAP. Ø  |                 |      |  |   |
|-------|--------|---------|-----------------|------|--|---|
| 65859 | 820    | 3,2-6,4 | 3,2-4-4,8-6-6,4 | 1950 |  | ● |



■ EXPOSITORES / DISPLAYS / PRESENTOIRS / DISPLAY / ESPOSITORI / DISPLAY STAND / СТЕНДЫ

■ TENAZA RUSA+TENAZA DE CARPINTERO / TOWER PINCER+CARPENTER PINCER / PINCE Russe+PINCE DE MENUISIER / RABITZZANGE+KANTENZANGE / TENAGLIA PER CEMENTISTI+TENAGLIA PER CARPENTIERI / TURQUES RUSSA+TURQUES DE CARPINTEIRO / КЛЕЩИ+КЛЕЩИ ДЛЯ ПЛИТКИ

■ 36 PCS.

| COD.  |       | PCS. |  |
|-------|-------|------|--|
| 69427 |       | 36   |  |
| PCS.  | COD.  | PCS. |  |
| 12    | 62140 | 9"   |  |
|       | 62142 | 10"  |  |
| 6     | 62123 | 9"   |  |
|       | 62124 | 10"  |  |



| COD.  |       | PCS. |  |
|-------|-------|------|--|
| 69430 |       | 36   |  |
| PCS.  | COD.  | PCS. |  |
| 6     | 62123 | 9"   |  |
|       | 62124 | 10"  |  |
|       | 62140 | 9"   |  |
|       | 62142 | 10"  |  |
|       | 62438 | 7"   |  |
|       | 62439 | 8"   |  |

| COD.  |       | PCS. |  |
|-------|-------|------|--|
| 69429 |       | 36   |  |
| PCS.  | COD.  | PCS. |  |
| 6     | 62437 | 6"   |  |
| 12    | 62438 | 7"   |  |
|       | 62439 | 8"   |  |
| 6     | 62440 | 9"   |  |



| COD.  |       | PCS. |  |
|-------|-------|------|--|
| 69425 |       | 36   |  |
| PCS.  | COD.  | PCS. |  |
| 12    | 62140 | 9"   |  |
|       | 62142 | 10"  |  |
|       | 62138 | 11"  |  |

| COD.  |       | PCS. |  |
|-------|-------|------|--|
| 69426 |       | 36   |  |
| PCS.  | COD.  | PCS. |  |
| 12    | 62123 | 9"   |  |
|       | 62124 | 10"  |  |
|       | 62125 | 11"  |  |






■ **DE CANAL / BOX JOINT / MULTIPRISE ENTREPASSÉE / WASSERPUMPENZANGE / PINZE REGOLABILI / BICO DE PAPAGAIO / КЛЕЩИ ШАРНИРНЫЕ**


■ **36 PCS.**


| COD.         |           | PCS. |                                                                                    |
|--------------|-----------|------|------------------------------------------------------------------------------------|
| <b>69416</b> |           | 36   |                                                                                    |
| PCS.         | COD. PCS. |      |                                                                                    |
| 6            | 62133     | 7"   |  |
|              | 62135     | 10"  |                                                                                    |
|              | 62134     | 12"  |  |
|              | 62127     | 7"   |                                                                                    |
|              | 62128     | 10"  |                                                                                    |
|              | 62129     | 12"  |                                                                                    |





| COD.         |           | PCS. |                                                                                    |
|--------------|-----------|------|------------------------------------------------------------------------------------|
| <b>69417</b> |           | 36   |                                                                                    |
| PCS.         | COD. PCS. |      |                                                                                    |
| 6            | 62291     | 10"  |  |
|              | 62292     | 12"  |                                                                                    |
|              | 62294     | 10"  |  |
|              | 62295     | 12"  |                                                                                    |
|              | 62297     | 10"  |                                                                                    |
|              | 62298     | 12"  |                                                                                    |

| COD.         |           | PCS. |                                                                                      |
|--------------|-----------|------|--------------------------------------------------------------------------------------|
| <b>69420</b> |           | 36   |                                                                                      |
| PCS.         | COD. PCS. |      |                                                                                      |
| 18           | 62291     | 10"  |  |
|              | 62292     | 12"  |                                                                                      |

| COD.         |           | PCS. |                                                                                      |
|--------------|-----------|------|--------------------------------------------------------------------------------------|
| <b>69421</b> |           | 36   |                                                                                      |
| PCS.         | COD. PCS. |      |                                                                                      |
| 18           | 62294     | 10"  |  |
|              | 62295     | 12"  |                                                                                      |

| COD.         |           | PCS. |                                                                                      |
|--------------|-----------|------|--------------------------------------------------------------------------------------|
| <b>69418</b> |           | 36   |                                                                                      |
| PCS.         | COD. PCS. |      |                                                                                      |
| 12           | 62133     | 7"   |  |
|              | 62135     | 10"  |                                                                                      |
|              | 62134     | 12"  |                                                                                      |

| COD.         |           | PCS. |                                                                                      |
|--------------|-----------|------|--------------------------------------------------------------------------------------|
| <b>69419</b> |           | 36   |                                                                                      |
| PCS.         | COD. PCS. |      |                                                                                      |
| 12           | 62127     | 7"   |  |
|              | 62128     | 10"  |                                                                                      |
|              | 62129     | 12"  |                                                                                      |

| COD.         |           | PCS. |                                                                                      |
|--------------|-----------|------|--------------------------------------------------------------------------------------|
| <b>69422</b> |           | 36   |                                                                                      |
| PCS.         | COD. PCS. |      |                                                                                      |
| 12           | 62105     | 8"   |  |
|              | 62106     | 10"  |                                                                                      |
|              | 62107     | 12"  |                                                                                      |

| COD.  | PCS. |
|-------|------|
| 69423 | 36   |

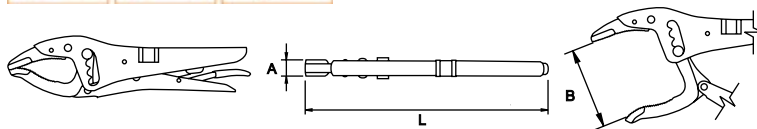
  

| PCS. | COD. PCS. |     |
|------|-----------|-----|
| 12   | 62445     | 8"  |
|      | 62446     | 10" |
|      | 62447     | 12" |



#### GRIP TITACROM®

**TENAZA GRIP MULTIPOSICIÓN DE GRAN CAPACIDAD / MULTIPOSITION LARGE CAPACITY GRIP PLIER / PINCE ÉTAU GRANDE CAPACITÉ, MULTIPositionS / GRIPZANGE FÜR GROSSE DURCHMESSER / PINZA AUTOBLOCCANTE A DOPPIA REGOLAZIONE / ALICATE DE GRIF MULTIPOSIÇÃO DE GRANDE CAPACIDADE / МНОГОПОЗИЦИОННЫЕ ЗАЖИМНЫЕ ЩИПЦЫ GRIP С БОЛЬШОЙ ЕМКОСТЬЮ**



| COD.  | L (inch) | A (mm) | B (mm) | Max. (kg) |     |   |   |
|-------|----------|--------|--------|-----------|-----|---|---|
| 62097 | 10       | 18     | 100    | 1135      | 650 | 8 | ● |

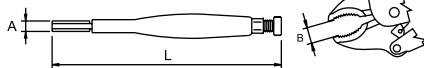
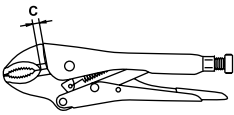
\*: Máxima presión (kg) / Maximum pressure (kg) / Pression maximale (kg)

| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | Max. (daN)* |     |   |   |
|-------|----------|--------|--------|--------|-------------|-----|---|---|
| 62096 | 10       | 250    | 18     | 80     | 310         | 760 | 8 | ● |

\*: Máxima presión (daN) / Maximum pressure (daN) / Pression maximale (daN)



**TENAZA GRIP CON CORTACABLES / GRIP PLIER WITH WIRE CUTTER / PINCE ÉTAU À COUPE / GRIPZANGE MIT DRAHTSCHNEIDER / PINZE A MORSETTO CON TAGLIACAVI / ALICATE DE GRIF CORTA CABOS / КЛЕЩИ ДЛЯ СВАРКИ С РЕЗКОЙ ПРОВОДОВ**

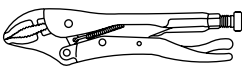


| COD.  | L (inch) | A (mm) | B (mm) | Boca / Jaw / Bec         | Max. (kg) |     |   |   |
|-------|----------|--------|--------|--------------------------|-----------|-----|---|---|
| 62179 | 4        | 7,0    | 25     |                          | 363       | 100 |   |   |
| 62177 | 5        | 8,0    | 35     | Curva / Curved / Courbée | 408       | 160 |   |   |
| 62178 | 7        | 13     | 42     |                          | 1135      | 360 | 6 | ● |
| 62172 | 10       | 14     | 65     |                          |           | 550 |   |   |

\*: Máxima presión (kg) / Maximum pressure (kg) / Pression maximale (kg)



**TENAZA GRIP BOCA CURVA SIN CORTACABLES / CURVED JAW GRIP PLIER WITHOUT WIRE CUTTER / PINCE ÉTAU SANS COUPE CABLE / GRIPZANGE MIT GEBOGEN BACKEN OHNE DRAHTSCHNEIDER / PINZE GRIP BOCCA CURVA SENZA TAGLIACAVI / ALICATE DE GRIF BOCA CURVA SEM CORTA CABOS / ИЗОГНУТЫЕ КЛЕЩИ ДЛЯ СВАРКИ С РЕЗКОЙ ПРОВОДОВ**

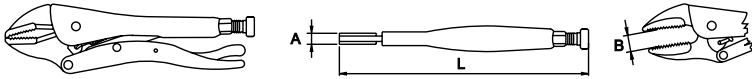


| COD.  | L (inch) | A (mm) | B (mm) | Boca / Jaw / Bec         | Max. (kg) |     |   |   |
|-------|----------|--------|--------|--------------------------|-----------|-----|---|---|
| 62260 | 7        | 9,0    | 42     | Curva / Curved / Courbée | 1135      | 350 | 6 | ● |
| 62261 | 9        | 11     | 52     |                          |           | 500 |   |   |

\*: Máxima presión (kg) / Maximum pressure (kg) / Pression maximale (kg)



**TENAZA GRIP BOCA RECTA / STRAIGHT JAW GRIP PLIER / PINCE ÉTAU BECS DROITS / GRIPZANGE MIT GERADE BACKEN / PINZE A MORSETTO DIRITTE / ALICATES DE GRIF BOCA RECTA / ПРЯМЫЕ КЛЕЩИ ДЛЯ СВАРКИ**

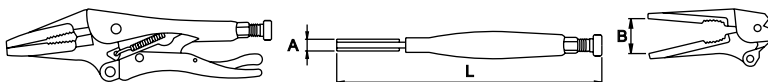


| COD.  | L (inch) | A (mm) | B (mm) | Boca / Jaw / Bec          | Max. (kg) |     |   |   |
|-------|----------|--------|--------|---------------------------|-----------|-----|---|---|
| 62414 | 7        | 14     | 45     | Recta / Straight / Droite | 1135      | 350 | 6 | ● |
| 62231 | 10       | 16     | 60     | Recta / Straight / Droite | 1135      | 500 | 6 | ● |

\*: Máxima presión (kg) / Maximum pressure (kg) / Pression maximale (kg)



**BOCAS LARGAS / LONG NOSE JAWS / BECS LONGS / GRIPZANGE MIT LANGEN BACKEN / PINZE A MORSETTO PIATTO / PONTAS COMPRIDAS / КЛЕЩИ ДЛЯ СВАРКИ С ДЛИННЫМИ НОСАМИ**

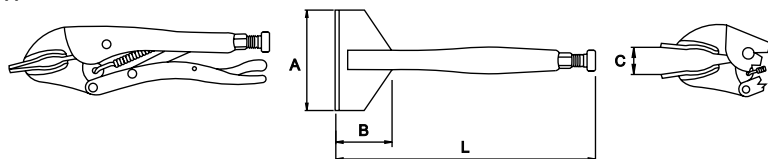


| COD.  | L (inch) | A (mm) | B (mm) | Max. (kg) |     |   |   |
|-------|----------|--------|--------|-----------|-----|---|---|
| 62485 | 6,5      | 8,0    | 60     | 204       | 185 | 6 | ● |
| 62486 | 8,5      | 10     | 75     | 408       | 360 | 6 | ● |

\*: Máxima presión (kg) / Maximum pressure (kg) / Pression maximale (kg)



**CON MORDAZAS PARA CHAPA / SHEET METAL GRIP PLIER / POUR TOLE / GRIPZANGE FÜR STAHLPLATTEN / CON MORSA PER LAMIERE / COM MORDENTES PARA CHAPA / КЛЕЩИ ДЛЯ СВАРКИ ЛИСТОВ МЕТАЛЛА**

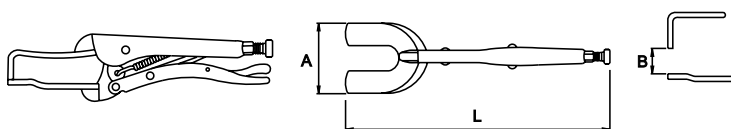


| COD.  | L (inch) | A (mm) | B (mm) | C (mm) | Max. (kg) |     |   |   |
|-------|----------|--------|--------|--------|-----------|-----|---|---|
| 62487 | 8        | 80     | 42     | 17     | 454       | 490 | 4 | ● |

\*: Máxima presión (kg) / Maximum pressure (kg) / Pression maximale (kg)



**CON MORDAZAS PARA SOLDADURA / WELDING GRIP PLIER / POUR CORNIERE / SCHWEISSERGRIPZANGE / CON MORSA PER SOLDATURA / COM MORDENTES PARA SOLDADURA / КЛЕЩИ ДЛЯ СВАРКИ**

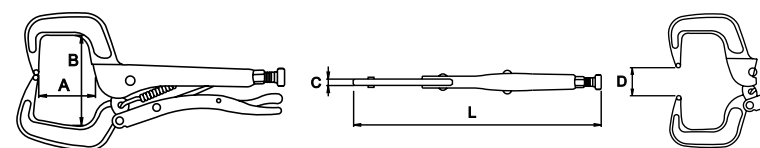


| COD.  | L (inch) | A (mm) | B (mm) | Max. (kg) |     |   |   |
|-------|----------|--------|--------|-----------|-----|---|---|
| 62508 | 9        | 70     | 26     | 227       | 600 | 2 | ● |
| 62509 | 11       | 75     | 35     | 227       | 800 | 2 | ● |

\*: Máxima presión (kg) / Maximum pressure (kg) / Pression maximale (kg)



**CON MORDAZAS EN "C" / "C" CLAMPS GRIP PLIER / PINCE-ÉTAU COL DE CYGNE / GRIPZANGE MIT "C" BACKEN / PINZE A MORSETTO A FORMA DI "C" / COM MORDENTES EM "C" / КЛЕЩИ ДЛЯ СВАРКИ С ЗАЖИМОМ "С"**

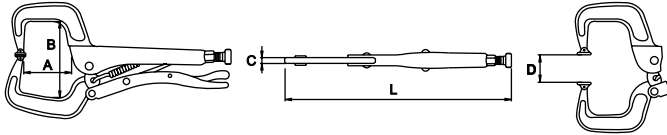


| COD.  | L (inch) | A (mm) | B (mm) | C (mm) | D (mm) | Max. (kg) |     |   |   |
|-------|----------|--------|--------|--------|--------|-----------|-----|---|---|
| 62492 | 11       | 75     | 100    | 7,0    | 50     | 408       | 750 | 6 | ● |

\*: Máxima presión (kg) / Maximum pressure (kg) / Pression maximale (kg)



**CON MORDAZAS EN "C" BASCULANTES / "C" CLAMPS SWIVEL PADS GRIP PLIER / PINCE-ÉTAU A MACHOIRES BASCULANTES / GRIPZANGE MIT SCHWENKBACKEN / PINZE A MORSETTO BASCULANTE / COM MORDENTES EM BASCULANTES / КЛЕЩИ ДЛЯ СВАРКИ С ЗАЖИМОМ "С" И С ПОВОРОТНЫМИ ГУБКАМИ**

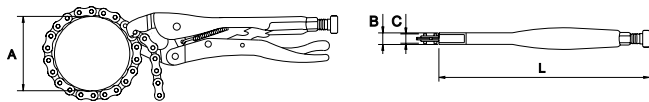


| COD.  | L (inch) | A (mm) | B (mm) | C (mm) | D (mm) | Max. (kg) |      |   |   |
|-------|----------|--------|--------|--------|--------|-----------|------|---|---|
| 62489 | 7        | 55     | 55     | 5,0    | 15     | 227       | 270  |   |   |
| 62490 | 11       | 70     | 95     | 6,0    | 45     | 408       | 800  | 6 |   |
| 62491 | 18       | 250    | 100    | 12     | 120    | 1135      | 1450 |   | - |

\*: Máxima presión (kg) / Maximum pressure (kg) / Pression maximale (kg)



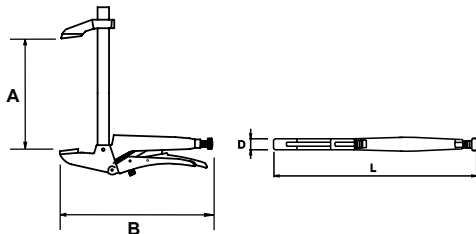
**TENAZA GRIP CON CADENA / GRIP PLIER WITH CHAIN / PINCE ÉTAU À CHAÎNE / GRIPZANGE MIT KETTE / PINZE A MORSETTO CON CATENA / ALICATES DE GRIF COM CORRENTE / КЛЕЩИ ДЛЯ СВАРКИ С ЦЕПНЫМ ЗАЖИМОМ**



| COD.  | L (inch) | A (mm) | B (mm) | C (mm) |        |     |   |
|-------|----------|--------|--------|--------|--------|-----|---|
| 62174 |          | 150    |        |        | 20     | 750 |   |
| 62601 | 9        | 215    | 13     | 7,0    | 27.1/2 | 850 | 1 |



**GRIP-SARGENTO / CLAMP GRIP PLIER / PINCE-ÉTAU SERRE-JOINT / GRIPZANGE MIT KLEMME / PINZE GRIP A SERRAGGIUNTO / ALICATE PRESSÃO COM GRAMPO / КЛЕЩИ ДЛЯ СВАРКИ С ЗАЖИМОМ**



| COD.  | L (inch) | A (mm) | B (mm) | C (mm) | D (mm) | Max. (kg) |      |   |
|-------|----------|--------|--------|--------|--------|-----------|------|---|
| 62571 | 10       | 60     | 300    | 200    | 15     | 1135      | 1180 | 1 |



**EXPOSITORES / DISPLAYS / PRESENTOIRS / DISPLAY / ESPOSITORI / DISPLAY STAND / СТЕНДЫ**

25 PCS.

| COD.  | PCS.      |
|-------|-----------|
| 55572 | 25        |
| PCS.  | COD. PCS. |
| 25    | 62097     |
|       | 10"       |



### 30 PCS.

| COD.         |           | PCS. |     |
|--------------|-----------|------|-----|
| <b>55573</b> |           | 30   |     |
| PCS.         | COD. PCS. |      |     |
| 6            | 62260     |      | 7"  |
|              | 62261     |      | 9"  |
|              | 62231     |      | 10" |
|              | 62178     |      | 7"  |
|              | 62172     |      | 10" |

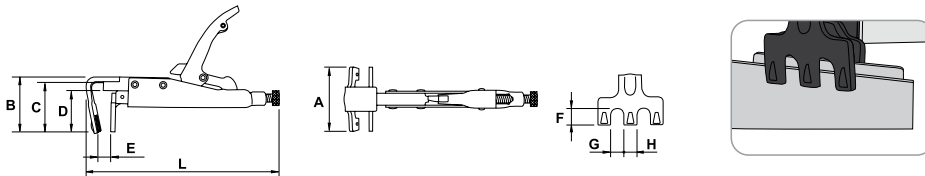


### 22 PCS.

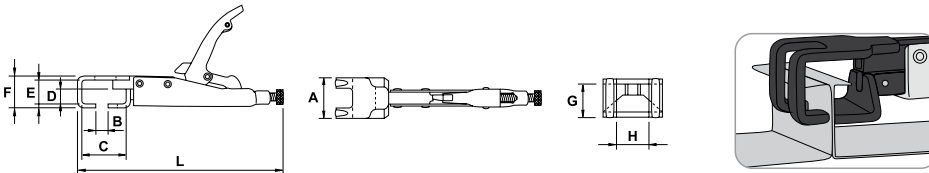
| COD.         |           | PCS. |      |
|--------------|-----------|------|------|
| <b>55574</b> |           | 22   |      |
| PCS.         | COD. PCS. |      |      |
| 6            | 62177     |      | 5"   |
|              | 62485     |      | 6,5" |
|              | 62486     |      | 8,5" |
| 2            | 62487     |      | 8"   |
|              | 62508     |      | 9"   |



### TENAZAS AXIALES / AXIAL GRIP PLIERS / PINCE-ETAU AXIALE / AXIALE SCHWEISS-GRIPZANGE / PINZE ASSIALI / ALICATE PRESSÃO AXIAL / АКСИАЛЬНЫЕ КЛЕЩИ

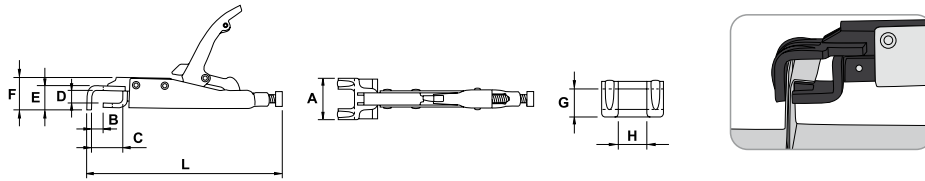


| COD.         | Tipo/<br>Type/<br>Type | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) |     |   |
|--------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|---|
| <b>56180</b> | W                      | 200    | 70     | 56     | 53     | 40     | 12     | 18     | 14     | 14     | 550 | 1 |

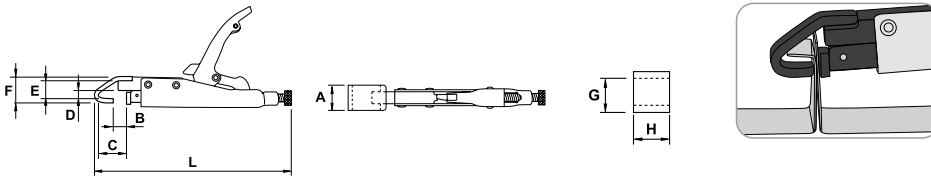


| COD.         | Tipo/<br>Type/<br>Type | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) |     |   |
|--------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|---|
| <b>56181</b> | JJ                     | 212    | 46     | 13     | 49     | 17     | 26     | 37     | 31     | 20     | 550 | 1 |

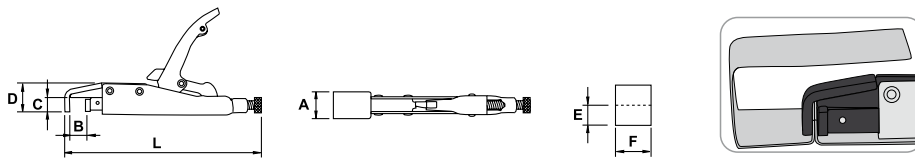




| COD.         | Tipo/<br>Type/<br>Type | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) |     |   |
|--------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|---|
| <b>56182</b> | LL                     | 212    | 46     | 13     | 34     | 14     | 26     | 37     | 21     | 21     | 550 | 1 |



| COD.         | Tipo/<br>Type/<br>Type | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) |     |   |
|--------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|---|
| <b>56183</b> | J                      | 212    | 25     | 14     | 31     | 9      | 19     | 31     | 24     | 25     | 550 | 1 |



| COD.         | Tipo/<br>Type/<br>Type | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) |     |   |
|--------------|------------------------|--------|--------|--------|--------|--------|--------|--------|-----|---|
| <b>56184</b> | L                      | 196    | 25     | 14     | 13     | 30     | 13     | 25     | 550 | 1 |



4

**EXTRACTORES**  
**GEAR PULLERS**  
**EXTRACTEURS**  
**ABZIEHERS**  
**ESTRATTORI**  
**EXTRACTORES**  
**СЪЕМНИКИ**



El factor más importante a la hora de elegir un extractor es su calidad. La dureza y la durabilidad son factores particularmente importantes. EGA Master produce sus extractores en acero forjado de gran resistencia y bajo estrictos tests mecánicos, consiguiendo un producto que excede los requerimientos de los estándares internacionales más exigentes. El tornillo está hecho de acero laminado en frío y, por lo tanto, es más resistente al estrés.

Una vez que la seguridad está asegurada, es importante hacer uso de la herramienta exacta. EGA Master ofrece una amplia gama de extractores que asegura la disponibilidad de la herramienta precisa para cada trabajo: externos, internos, de 3 y 2 garras, cortos, estándar, de alcance largo o muy largo; y una gran variedad de diferenciales.

*When it comes to picking a good gear puller, the most important factor is good quality. Strength and durability are extremely important. EGA Master produces its gear puller range with high performance drop forged steel, under strict mechanical tests, exceeding the requirements of the most demanding international standards. The drive screw is made out of cold rolled steel, so it is much more tolerant to stress.*

*Once safety is preserved, the other important task is getting the exact precise tool. EGA Master offers a very wide range that assures having the proper tool in each application: external, internal, 3 jaws, 2 jaws, short, standard, long or extra long reach, with all variety of spreads.*

Le facteur le plus important pour choisir un extracteur est sa qualité. La dureté et la durabilité sont des facteurs particulièrement importants. EGA Master fabrique ses extracteurs en acier forgé d'une grande résistance, en suivant des tests mécaniques strictes, en obtenant un produit qui dépasse les demandes des standards internationaux les plus exigeantes. La vis est faite en acier laminé à froid, et par conséquent elle est plus résistante aux chocs.

Pour assurer la sécurité, il est important de faire usage de l'outil adéquat. EGA Master offre une grande gamme d'extracteurs qui permettent d'avoir l'outil nécessaire à chaque travail: externes, internes, 3 griffes, 2 griffe, courts, standards, de longue ou très longue portée, et une grande variété des différentiels.

|                                                           | Corto<br>Short<br>Courts | Estándar<br>Standard<br>Standard | Largo<br>Long<br>Longue | Extra largo<br>Extralong<br>Extra-longue | Externo<br>External<br>Externe | Interno<br>Internal<br>Interne |
|-----------------------------------------------------------|--------------------------|----------------------------------|-------------------------|------------------------------------------|--------------------------------|--------------------------------|
| 2 Garras / 2 Jaw / 2 Becs                                 |                          | ●                                | ●                       |                                          | ●                              | ●                              |
| 3 Garras / 3 Jaw / 3 Becs                                 |                          | ●                                | ●                       |                                          | ●                              | ●                              |
| 3 Garras reversible / 3 Jaw reversible / 3 Bras articules | ●                        | ●                                | ●                       | ●                                        | ●                              | ●                              |
| Universal / Universal / Universel                         |                          | ●                                | ●                       |                                          | ●                              | ●                              |

1

Largo interno  
Long internal  
Long interne



2

Largo externo  
Long external  
Long externe



3

Corto interno  
Short internal  
Court interne



4

Corto externo  
Short external  
Court externe



5

Extra corto interno  
Extra short internal  
Extra court interne



6

Extra corto externo  
Standard external  
Extra court externe



7

Extra largo interno  
Extra long internal  
Extra long interne

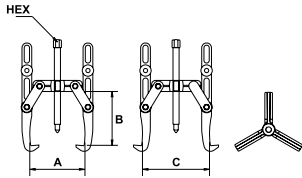


8

Extra largo externo  
Extra long external  
Extra long externe

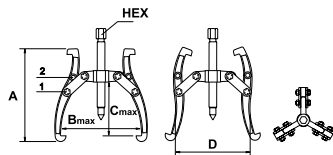




**EXTRACTOR 3 GARRAS ARTICULADAS 2 POSICIONES / 3 JAW GEAR PULLER 2 POSITION / EXTRACTEUR 3 BRAS ARTICULÉS 2 POSITIONS / AUSSEN-INNENABZIEHER 3 KLAUEN 2 POSITIONEN / ESTRATTORE A 3 BRACCIA 2 POSIZIONI / EXTRACTOR DE 3 GARRAS ARTICULADAS 2 POSIÇÕES / СЪЕМНИК С 3-МЯ ЛАПAMI И 2-МЯ ПОЗИЦИЯМИ**


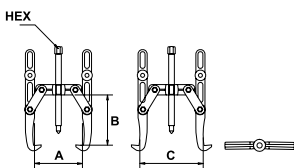
| COD.  | O.D.<br>inch | mm | A (mm) | B (mm) | C (mm)  | Max. Tn* | Kg  |   |
|-------|--------------|----|--------|--------|---------|----------|-----|---|
| 62576 | 4            | 14 | 20-120 | 110    | 60-150  | 2,5      | 0,7 | 1 |
| 62577 | 6            | 17 | 20-165 | 150    | 60-200  | 3,5      | 1,1 |   |
| 62578 | 9            | 19 | 36-230 | 210    | 90-280  | 7        | 2,7 |   |
| 62579 | 12           | 24 | 50-320 | 250    | 115-350 | 10       | 5,5 |   |
| 62580 | 16           | 24 | 80-420 | 350    | 125-420 | 12       | 8,0 |   |

\*Máxima fuerza de extracción / Maximum pulling force / Force maximale d'extraction


**EXTRACTOR 3 GARRAS ARTICULADAS REVERSIBLES 2 POSICIONES / 3 JAW REVERSIBLE GEAR PULLER 2 POSITION / EXTRACTEUR 3 BRAS ARTICULÉS RÉVERSIBLES 2 POSITIONS / AUSSENABZIEHER 3 KLAUEN 2 POSITIONEN / ESTRATTORE A 3 BRACCI REVERSIBILI 2 POSIZIONI / EXTRACTOR DE 3 GARRAS ARTICULADO REVERSIVEL 2 POSIÇÕES / СЪЕМНИК С 3-МЯ ЛАПAMI РЕВЕРСИВНЫЙ 2-МЯ ПОЗИЦИЯМИ**


| COD.  | O.D.<br>inch | mm | A (mm) | B (mm)<br>max. (1) | B (mm)<br>max. (2) | C (mm)<br>max. (1) | C (mm)<br>max. (2) | D (mm)<br>max. (1) | D (mm)<br>max. (2) | Max. Tn* | Kg  |   |
|-------|--------------|----|--------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------|-----|---|
| 62572 | 3            | 12 | 102    | 15                 | 80                 | 56                 | 7                  | 40-92              | -                  | 1,5      | 0,4 | 1 |
| 62573 | 6            | 17 | 184    | 25                 | 160                | 94                 | 123                | 60-180             | 60-202             | 5        | 1,1 |   |
| 62574 | 8            | 21 | 236    | 30                 | 210                | 125,5              | 162,5              | 76-235             | 76-350             | 7        | 2,2 |   |
| 62575 | 12           | 28 | 340    | 50                 | 317                | 179                | 228                | 102-350            | 102-380            | 10       | 6,5 |   |

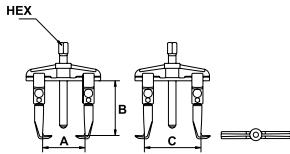
\*Máxima fuerza de extracción / Maximum pulling force / Force maximale d'extraction


**EXTRACTOR 2 GARRAS ARTICULADAS 2 POSICIONES / 2 JAW GEAR PULLER 2 POSITION / EXTRACTEUR 2 BRAS ARTICULÉS 2 POSITIONS / AUSSEN-INNENABZIEHER 2 KLAUEN / ESTRATTORE ARTICULATE A 2 BRACCIA 2 POSIZIONI / EXTRACTOR DE 2 GARRAS ARTICULADAS 2 POSIÇÕES / СЪЕМНИК С 2-МЯ ЛАПAMI И 2-МЯ ПОЗИЦИЯМИ**


| COD.  | O.D.<br>inch | mm | A (mm) | B (mm) | C (mm)  | Max. Tn* | Kg  |   |
|-------|--------------|----|--------|--------|---------|----------|-----|---|
| 62581 | 4            | 14 | 20-120 | 110    | 60-150  | 3,5      | 0,5 | 1 |
| 62582 | 6            | 15 | 20-165 | 150    | 60-200  | 5        | 0,8 |   |
| 62583 | 9            | 17 | 36-230 | 210    | 90-280  | 7        | 2,0 |   |
| 62584 | 12           | 17 | 50-320 | 250    | 115-350 | 10       | 4,0 |   |
| 62585 | 16           | 26 | 80-420 | 350    | 125-420 | 10       | 5,8 |   |

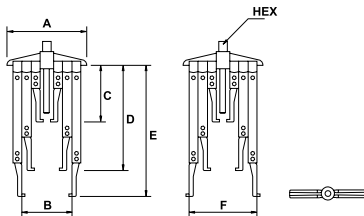
\*Máxima fuerza de extracción / Maximum pulling force / Force maximale d'extraction



**EXTRACTOR 2 GARRAS UNIVERSAL / UNIVERSAL 2 JAW GEAR PULLER / EXTRACTEUR DEUX BRAS UNIVERSEL / UNIVERSELLE AUSZIEHER 2 KLAUEN / ESTRATTORE UNIVERSALE A 2 BRACCIA / EXTRACTOR DE DUAS GARRAS UNIVERSAL / УНИВЕРСАЛЬНЫЙ СЪЕМНИК С 2-МЯ ЛАПАМИ**


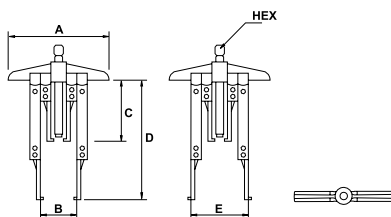
| COD.  | O.D.<br>inch | mm | A (mm) | B (mm) | C (mm)  | Max. Tn* | Kg  |   |
|-------|--------------|----|--------|--------|---------|----------|-----|---|
| 62586 | 3            | 17 | 25-80  | 100    | 70-130  | 2,5      | 1,0 | 1 |
| 62587 | 5            | 17 | 25-130 | 100    | 80-180  | 4,5      | 1,2 |   |
| 62588 | 6            | 23 | 50-160 | 150    | 105-220 | 6        | 3,1 |   |
| 62589 | 7            | 25 | 60-200 | 200    | 160-330 | 7        | 6,5 |   |
| 62590 | 9            | 27 | 80-250 | 200    | 160-330 | 7        | 6,5 |   |

\*Máxima fuerza de extracción / Maximum pulling force / Force maximale d'extraction


**EXTRACTOR 6 GARRAS UNIVERSAL / UNIVERSAL 6 JAW GEAR PULLER / EXTRACTEUR 6 BRAS UNIVERSEL / UNIVERSELLE AUSZIEHER 6 KLAUEN / ESTRATTORE UNIVERSALE A 6 BRACCIA / EXTRACTOR DE 6 GARRAS UNIVERSAL / УНИВЕРСАЛЬНЫЙ СЪЕМНИК С 6-МЯ ЛАПАМИ**


| COD.  | O.D.<br>inch | mm | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | Max. Tn* | Kg |   |
|-------|--------------|----|--------|--------|--------|--------|--------|--------|----------|----|---|
| 62801 | 5            | 17 | 175    | 30-130 | 100    | 200    | 250    | 80-180 | 3,5      | 3  | 1 |

\*Máxima fuerza de extracción / Maximum pulling force / Force maximale d'extraction

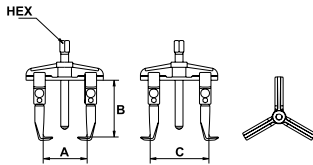

**EXTRACTOR 4 GARRAS UNIVERSAL / UNIVERSAL 4 JAW GEAR PULLER / EXTRACTEUR 4 BRAS UNIVERSEL / UNIVERSELLE AUSZIEHER 4 KLAUEN / ESTRATTORE UNIVERSALE A 4 BRACCIA / EXTRACTOR DE 4 GARRAS UNIVERSAL / УНИВЕРСАЛЬНЫЙ СЪЕМНИК С 4-МЯ ЛАПАМИ**


| COD.  | O.D.<br>inch | mm | A (mm) | B (mm) | C (mm) | D (mm) | E (mm)  | Max. Tn* | Kg  |   |
|-------|--------------|----|--------|--------|--------|--------|---------|----------|-----|---|
| 62802 | 7            | 22 | 260    | 45-210 | 155    | 305    | 120-270 | 2,5      | 5,6 | 1 |

\*Máxima fuerza de extracción / Maximum pulling force / Force maximale d'extraction



**EXTRACTOR 3 GARRAS UNIVERSAL / UNIVERSAL 3 JAW GEAR PULLER / EXTRACTEUR 3 BRAS UNIVERSEL / UNIVERSELLE AUSZIEHER 3 KLAUEN / ESTRATTORE UNIVERSALE A 3 BRACCIA / EXTRACTOR DE 3 GARRAS UNIVERSAL / УНИВЕРСАЛЬНЫЙ СЪЕМНИК С 3-МЯ ЛАПАМИ**

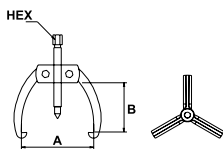


| COD.  | O.D.<br>inch | mm | A (mm) | B (mm) | C (mm)  | Max. Tn* | Kg  |   |
|-------|--------------|----|--------|--------|---------|----------|-----|---|
| 62828 | 5            | 17 | 25-130 | 100    | 80-180  | 4        | 1,5 | 1 |
| 62829 | 8            | 22 | 60-200 | 150    | 120-270 | 6        | 4,0 | 1 |

\*Máxima fuerza de extracción / Maximum pulling force / Force maximale d'extraction



**EXTRACTOR 3 GARRAS / 3 JAW GEAR PULLER / EXTRACTEUR 3 BRAS / AUSZIEHER 3 KLAUEN / ESTRATTORE A 3 BRACCIA / EXTRACTOR DE 3 GARRAS / СЪЕМНИК С 3-МЯ ЛАПАМИ**

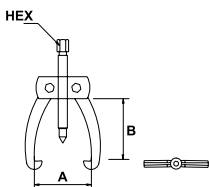


| COD.  | O.D.<br>inch | mm | A (mm) | B (mm) | Max. Tn* | Kg  |   |
|-------|--------------|----|--------|--------|----------|-----|---|
| 62816 | 4            | 14 | 20-110 | 110    | 3        | 1,3 | 1 |
| 62817 | 6            | 19 | 25-160 | 140    | 5        | 2,6 | 1 |

\*Máxima fuerza de extracción / Maximum pulling force / Force maximale d'extraction



**EXTRACTOR 2 GARRAS / 2 JAW GEAR PULLER / EXTRACTEUR 2 BRAS / AUSZIEHER 2 KLAUEN / ESTRATTORE A 2 BRACCIA / EXTRACTOR DE DUAS GARRAS / СЪЕМНИК С 2-МЯ ЛАПАМИ**

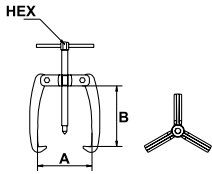


| COD.  | O.D.<br>inch | mm | A (mm) | B (mm) | Max. Tn* | Kg  |   |
|-------|--------------|----|--------|--------|----------|-----|---|
| 62818 | 4            | 14 | 20-110 | 110    | 2        | 1,0 | 1 |
| 62819 | 6            | 19 | 25-160 | 140    | 4        | 2,0 | 1 |

\*Máxima fuerza de extracción / Maximum pulling force / Force maximale d'extraction



**EXTRACTOR 3 GARRAS LIGERO / 3 JAW LIGHT GEAR PULLER / EXTRACTEURS 3 BRAS LÉGER / AUSZIEHER 3 KLAUEN / ESTRATTORE A 3 BRACCIA LEGGERA / EXTRACTOR DE TRÊS GARRAS LIGEIRO / СЪЕМНИК С 3-МЯ ЛАПАМИ ОБЛЕГЧЕННЫЙ**

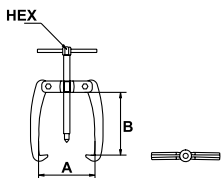


| COD.  | O.D.<br>inch | mm | A (mm) | B (mm) | Max. Tn* | Kg  |   |
|-------|--------------|----|--------|--------|----------|-----|---|
| 62821 | 2            |    | 15-60  | 50     |          | 0,2 |   |
| 62822 | 2.3/4        | 12 | 15-70  | 70     | 1,5      | 0,3 | 1 |
| 62823 | 3.1/4        |    | 15-80  | 80     |          |     |   |

\*Máxima fuerza de extracción / Maximum pulling force / Force maximale d'extraction



**EXTRACTOR 2 GARRAS LIGERO / 2 JAW LIGHT GEAR PULLER / EXTRACTEURS 2 BRAS LÉGER / AUSZIEHER 2 KLAUEN / ESTRATTORE A 2 BRACCIA LEGGERA / EXTRACTOR DE DUAS GARRAS LIGEIRO / СЪЕМНИК С 2-МЯ ЛАПАМИ ОБЛЕГЧЕННЫЙ**

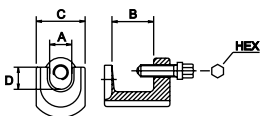


| COD.  | O.D.<br>inch | mm | A (mm) | B (mm) | Max. Tn* | Kg  |   |
|-------|--------------|----|--------|--------|----------|-----|---|
| 62824 | 2            |    | 15-60  | 50     |          | 0,2 |   |
| 62825 | 2.3/4        | 12 | 15-70  | 70     | 1        | 0,3 | 1 |
| 62826 | 3.1/4        |    | 15-80  | 80     |          |     |   |

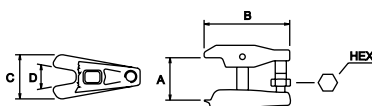
\*Máxima fuerza de extracción / Maximum pulling force / Force maximale d'extraction



**EXTRACTOR DE RÓTULAS / BALL JOINT PULLER / EXTRACTEUR DE ROULEMENTS / KUGELGELENKABZIEHER / ESTRATTORE A SFERE / EXTRACTOR DE RÓTULAS / СЪЕМНИК**

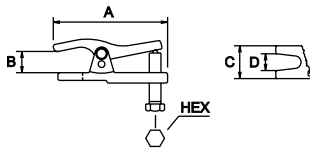


| COD.  | mm | A (mm) | B (mm) | C (mm) | D (mm) | Kg  |   |
|-------|----|--------|--------|--------|--------|-----|---|
| 62831 | 18 | 19     | 55     | 44     | 21     | 0,8 | 1 |



| COD.  | mm | A (mm) | B (mm) | C (mm) | D (mm) | Kg  |   |
|-------|----|--------|--------|--------|--------|-----|---|
| 62832 | 19 | 50     | 100    | 56     | 18-22  | 0,7 | 1 |

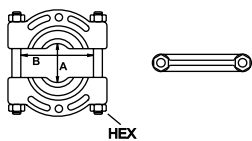




| COD.  | mm | A (mm) | B (mm) | C (mm) | D (mm) | Kg  |   |
|-------|----|--------|--------|--------|--------|-----|---|
| 62833 | 24 | 160    | 12-50  | 47     | 20     | 1,2 | 1 |
| 62834 | 17 |        | 60-80  |        |        | 1,5 |   |



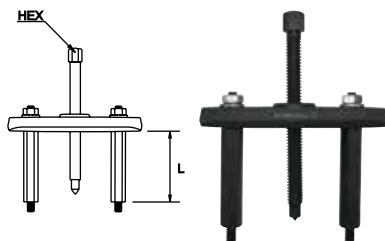
**GUILLOTINA PARA RODAMIENTOS Y POLEAS / BEARING SEPARATOR / GUILLOTINE POUR ROUEMENTS ET POULIES / TRENNVORRICHTUNG FÜR KUGELGELENKE / SEPARATORE DI CUSCINETTI E PULEGGE / GUILHOTINA PARA ROLAMENTOS E POLIS / СЕПАРАТОР ПОДШИПНИКОВ**



| COD.  | mm | O.D. inch | A (mm) | B (mm) | Kg   |   |
|-------|----|-----------|--------|--------|------|---|
| 62836 | 17 | 2         | 30-50  | 61     | 0,65 |   |
| 62837 | 19 | 3         | 50-75  | 92     | 1,5  | 1 |
| 62838 | 24 | 4         | 75-105 | 110    | 1,7  |   |

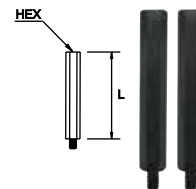


**EXTRACTORES PARA GUILLOTINAS / PULLERS FOR BEARING SEPARATOR / EXTRACTEURS POUR GUILLOTINES / AUSZIEHER FÜR TRENNVORRICHTUNG / ESTRATTORI DA TAGLIO / EXTRACTOR PARA GUILHOTINAS / СЪМНИК ДЛЯ СЕПАРАТОРА**



| COD.  | Válido para / Valid for / Valable pour | L (mm) | mm | Kg  |   |
|-------|----------------------------------------|--------|----|-----|---|
| 62840 | 62836                                  | 75     | 14 | 0,9 |   |
| 62841 | 62837                                  | 100    | 17 | 1,0 | 1 |
| 62842 | 62838                                  | 220    | 19 | 3,0 |   |

**PROLONGACIONES PARA EXTRACTORES PARA GUILLOTINAS / EXTENSIONS FOR BEARING SEPARATOR PULLERS / PROLONGATEURS POUR EXTRACTEURS PAR GUILLOTINE / VELÄNGERUNGEN FÜR AUSZIEHER FÜR TRENNVORRICHTUNG / PROLUNGA PER ESTRATTORE PER GHIGLIOTTINA / PROLONGADORES PARA EXTRACTORES PARA GUILHOTINAS / УДЛИНИТЕЛЬ ДЛЯ СЕПАРАТОРА ПОДШИПНИКОВ**



| COD.  | Válido para / Valid for / Valable pour | L (mm) | mm | Kg  |    |
|-------|----------------------------------------|--------|----|-----|----|
| 62844 | 62836                                  | 90     | 14 | 0,2 | 12 |
| 62845 | 62837                                  | 115    | 17 | 0,4 |    |
| 62846 | 62838                                  | 220    | 19 | 0,5 | 6  |

**SET EXTRACTOR DE GUILLOTINAS / SET OF BEARING SEPARATORS / SET EXTRACTEUR DE GUILLOTINE / SATZ ABZIEHER FÜR LAGER / KIT DI ESTRATTORE PER GHIGLIOTTINE / KIT EXTRACTOR DE GUILHOTINAS / НАБОР СЪЕМНИКОВ ДЛЯ ПОДШИПНИКОВ**

| COD.  | O.D. inch | Kg  |
|-------|-----------|-----|
| 62883 | 2-3       | 5,6 |



# PROYECTOS PRINCIPALES

## *MAIN PROJECTS*

# PRINCIPAUX PROJETS



**NEWMONT**

**MINERÍA / MINING / MINIÈRE**

**MÉXICO / MEXICO / MEXIQUE**



5

DESTORNILLADORES  
SCREWDRIVERS  
TOURNEVIS  
SCHRAUBENZIEHER  
CACCIAVITI  
CHAVES DE FENDA  
OTBEPCKИ

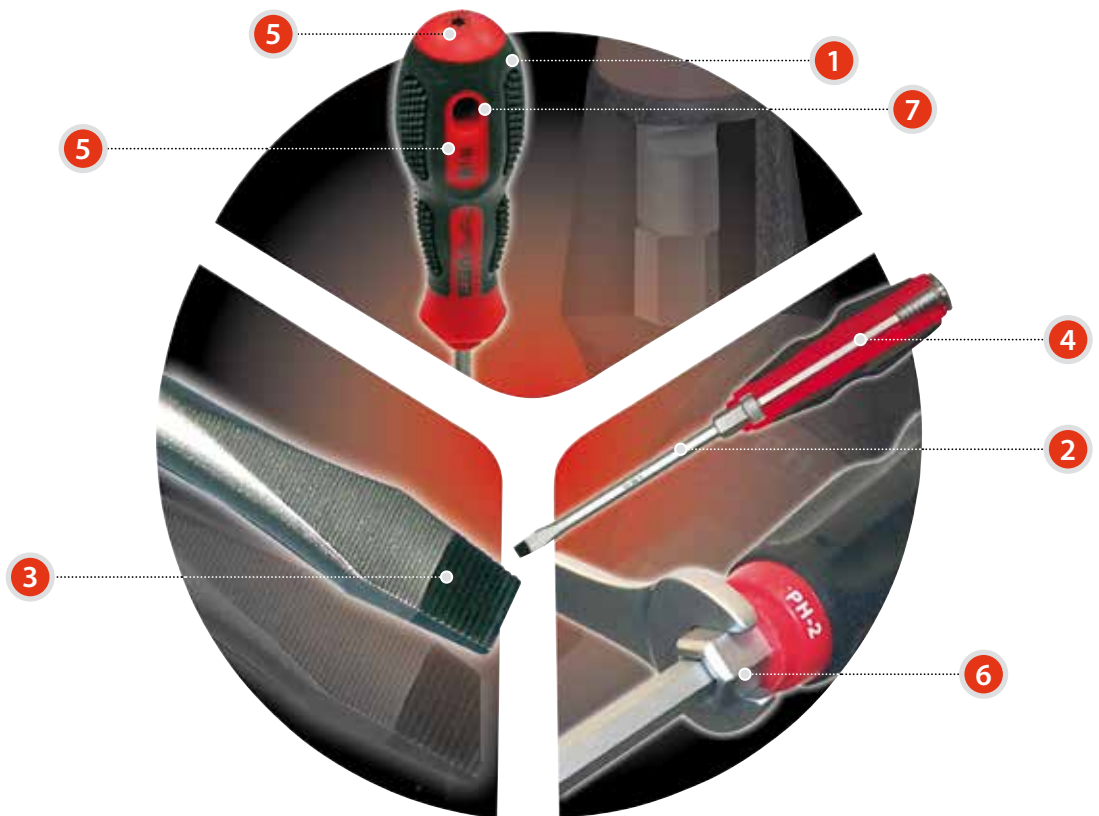




**Medalla**  
Salón Internacional  
de la Invención  
París 2007

**Medal**  
International Inventors  
Competition  
Paris 2007

**Medaille**  
Salon International  
de l'Invention  
Paris 2007



**1**  
Equipados con mangos ergonómicos y antideslizantes más amplios, ofrecen un agarre superior evitando deslizamientos.

*Oversized ergonomic & anti-slippery handles offer optimal grip for avoiding slippage.*

Pourvus de manches ergonomiques et anti-dérapants plus volumineux.

**2**  
Su varilla exclusiva de aleación cromo-molibdeno-vanadio permite aprietes un 30 % superiores a los destornilladores estándar.

*Its exclusive chrome-molybdenum-vanadium alloy enables 30% higher tightening torque than traditional screwdrivers.*

Sa lame "exclusivité" en alliage chrome molybdène vanadium, permet un serrage supérieur de 30% par rapport aux modèles standards.

**3**  
Su innovador sistema de punta antideslizante y magnética facilita el posicionamiento y evita deslizamientos imprevistos.

*The innovative "non-slip" anti-slippery and magnetic tip system allows an easier and safer positioning of the screwdriver, avoiding undesired slides.*

Son système innovateur de tête anti-dérapante et magnétique, facilite le positionnement et fait éviter les dérapages.

**4**  
Varilla pasante para el modelo Masterpunch, permite el golpeo en su parte superior.

*Go-through bar enables hammering on the Masterpunch screwdriver's upper side.*

Tige traversante pour le modèle Masterpunch, qui permet de frapper sur la partie supérieure.

**5**  
El marcaje doble vertical y frontal de tipo y tamaño facilita la identificación rápida del destornillador que necesitamos emplear.

*Type and size double marking of easy and efficient identification of the screwdriver to be used.*

Le double marquage de type et de dimension facilite l'identification de l'outil recherché.

**6**  
Modelos equipados con varilla hexagonal para aprietes con llaves. Hexagonal bar screwdrivers available for strong tightening with wrenches.

Modèles pourvus de lames hexagonales pour le serrage avec une clé.

**7**  
El agujero del mango permite apalancar.

*Go-through hole in the handle enables tommy bar using.*

Le trou sur le manche permet de serrer à l'aide d'une barre.

**8**  
Patentado.  
Patented.  
Breveté.








**EGA**
**MASTERTORK**

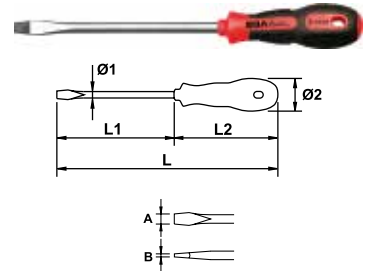

Sistema de punta antideslizante **NON-SLIP** y magnética / *NON-SLIP antislippery magnetic tip* / *NON-SLIP pointe brunie antidérapante et magnétique* / *NON-SLIP Anti-Rutsch-Spitze*  
 Punta antiscivolo **NON-SLIP** / *Sistema de ponta antideslizante de chave NON-SLIP* / *Нескользящий магнитный наконечник*

**ÚTIL DE COMPROBACIÓN DE PAR DE DESTORNILLADORES RANURADOS / SLOTTED SCREWDRIVER TORQUE POWER TESTING TOOL / OUTIL DE VÉRIFICATION DE COUPLE DE TOURNEVIS AVEC RAINURE / SCHLITZSCHRAUBENDREHER DREHMOMENT LEISTUNGSTESTER / TEST CACCIAVITI / COMPROVADOR DE PAR PARA CHAVES DE FENDA / ТЕСТЕР КРУТЯЩЕГО МОМЕНТА ДЛЯ ПЛОСКИХ ОТВЕРТОК**

| COD.         | L (mm) |
|--------------|--------|
| <b>64766</b> | 140    |





**MECÁNICO / SLOTTED / MECANICIEN / FÜR SCHLITZSCHRAUBEN / PER MECCANICI / MECÂNICO / ПЛОСКАЯ**
**MM**

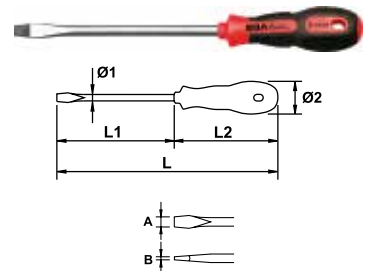
| COD.         | A (mm) | B (mm) | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |  |
|--------------|--------|--------|----------|----------|--------|---------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>66400</b> | 3      | 0,5    | 3        |          | 165    | 80      |         |                                                                                   |                                                                                   |                                                                                     |
| <b>66399</b> | 3,5    | 0,6    | 3,5      | 26       | 185    |         | 85      | 16                                                                                |                                                                                   |  |
| <b>66401</b> | 4      | 0,8    | 4        |          |        | 100     |         |                                                                                   |                                                                                   |                                                                                     |
| <b>66402</b> |        |        |          |          | 205    |         | 105     | 8                                                                                 |                                                                                   |                                                                                     |
| <b>66403</b> | 5,5    | 1      | 5        | 34       | 230    |         | 125     |                                                                                   |                                                                                   |                                                                                     |
| <b>66404</b> |        |        |          |          | 240    |         | 115     |                                                                                   |                                                                                   |  |
| <b>66405</b> | 6,5    |        | 6        | 36       | 265    |         | 150     |                                                                                   |                                                                                   |                                                                                     |
| <b>66406</b> |        | 1,2    |          |          | 280    |         |         |                                                                                   |                                                                                   |                                                                                     |
| <b>66407</b> | 8      |        | 7        |          |        |         |         |                                                                                   |                                                                                   |                                                                                     |
| <b>66448</b> | 9,5    |        | 8        |          | 330    | 200     |         | 6                                                                                 |                                                                                   |                                                                                     |
| <b>66408</b> | 10     | 1,6    |          | 40       |        |         | 130     |                                                                                   |                                                                                   |                                                                                     |
| <b>66409</b> | 12     | 2      |          |          |        |         |         |                                                                                   |                                                                                   |                                                                                     |
| <b>66449</b> | 13     |        | 10       |          | 380    | 250     |         |                                                                                   |                                                                                   |                                                                                     |
| <b>66410</b> | 14     | 2,5    |          |          |        |         |         |                                                                                   |                                                                                   |                                                                                     |



 | **DIN ISO 2380** | Modelo registrado / Registered model / Modèle enregistré

**INCH**

| COD.         | A (inch) | B (inch) | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (inch) | L2 (mm) |  |  |
|--------------|----------|----------|----------|----------|--------|-----------|---------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>55330</b> | 1/8      | 0,02     | 3        |          | 165    | 3         |         |                                                                                     |                                                                                       |
| <b>55331</b> | 5/32     | 0,032    | 4        | 26       | 185    |           | 85      | 16                                                                                  |                                                                                       |
| <b>55328</b> | 3/16     |          |          |          |        | 4         |         |                                                                                     |                                                                                       |
| <b>55332</b> |          | 0,04     | 5        | 34       | 205    |           | 105     | 8                                                                                   |                                                                                       |
| <b>55333</b> |          |          |          |          | 230    |           | 5       |                                                                                     |                                                                                       |
| <b>55334</b> |          |          |          |          | 240    |           | 115     |                                                                                     |  |
| <b>55335</b> | 1/4      |          | 6        | 36       | 265    |           | 6       |                                                                                     |                                                                                       |
| <b>55336</b> |          | 0,046    |          |          | 280    |           |         |                                                                                     |                                                                                       |
| <b>55337</b> | 5/16     |          | 7        |          |        |           |         |                                                                                     |                                                                                       |
| <b>55338</b> | 3/8      |          | 8        |          | 330    | 8         |         | 6                                                                                   |                                                                                       |
| <b>55339</b> | 25/64    | 0,063    |          | 40       |        |           | 130     |                                                                                     |                                                                                       |
| <b>55329</b> | 7/16     |          |          |          |        |           |         |                                                                                     |                                                                                       |
| <b>55340</b> | 15/32    | 0,08     | 10       |          | 380    | 10        |         |                                                                                     |                                                                                       |
| <b>55341</b> | 1/2      | 0,098    |          |          |        |           |         |                                                                                     |                                                                                       |

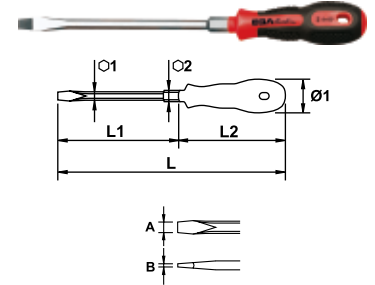


 | **DIN ISO 2380** | Modelo registrado / Registered model / Modèle enregistré

## EGA

### MM

| COD.  | A (mm) | B (mm) | HEX 1 (mm) | HEX 2 (mm) | Ø 1 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |   |
|-------|--------|--------|------------|------------|----------|--------|---------|---------|----|---|
| 66413 | 4      | 0,8    | 4          | -          | 26       | 185    | 100     | 85      | 16 |   |
| 66414 | 5,5    | 1      | 5          | -          | 34       | 230    | 125     | 105     | 8  |   |
| 66415 | 6,5    | 1,2    | 6          | -          | 36       | 240    |         | 115     |    | ● |
| 66416 | 8      |        |            | 11         |          | 280    | 150     |         |    |   |
| 66417 | 10     | 1,6    | 8          |            | 40       | 330    | 200     | 130     | 6  |   |
| 66418 | 12     | 2      | 10         | 16         |          | 380    | 250     |         |    | - |
| 66419 | 14     | 2,5    | 10         | 16         |          |        |         |         |    |   |



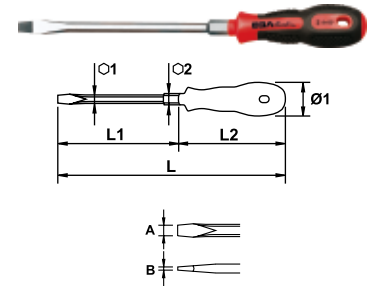
| DIN ISO 2380 | Modelo registrado / Registered model / Modèle enregistré

#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Hexagonal / Hexagonal / Hexagonale

### INCH

| COD.  | A (inch) | B (inch) | HEX 1 (mm) | HEX 2 (mm) | Ø 1 (mm) | L (mm) | L1 (inch) | L2 (mm) |    |   |
|-------|----------|----------|------------|------------|----------|--------|-----------|---------|----|---|
| 55344 | 5/32     | 0,032    | 4          | -          | 26       | 185    | 4         | 85      | 16 |   |
| 55345 | 7/32     | 0,04     | 5          | -          | 34       | 230    | 5         | 105     | 8  |   |
| 55346 | 1/4      | 0,046    | 6          | -          | 36       | 240    |           | 115     |    | ● |
| 55347 | 5/16     |          |            | 11         |          | 280    | 6         |         |    |   |
| 55348 | 25/64    | 0,063    | 8          |            | 40       | 330    | 8         | 130     | 6  |   |
| 55349 | 15/32    | 0,08     | 10         | 16         |          | 380    | 10        |         |    | - |



| DIN ISO 2380 | Modelo registrado / Registered model / Modèle enregistré

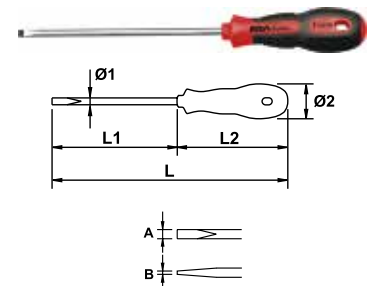
#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Hexagonal / Hexagonal / Hexagonale

### ELECTRICISTA / ELECTRICIAN / ELECTRICIEN / ELEKTRIK / PER ELETTICISTI / ELETRICISTA / ЭЛЕКТРИЧЕСКАЯ

### MM

| COD.  | A (mm) | B (mm) | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |  |   |
|-------|--------|--------|----------|----------|--------|---------|---------|----|--|---|
| 66420 | 2,5    | 0,4    | 2,5      |          | 160    | 75      |         |    |  |   |
| 66421 |        |        |          |          | 145    | 60      |         |    |  |   |
| 66422 | 3      | 0,5    | 3        | 26       | 185    | 100     | 85      | 16 |  | ● |
| 67226 |        |        |          |          | 285    | 200     |         |    |  |   |
| 66428 | 3,5    | 0,6    | 3,5      |          | 185    | 100     |         |    |  |   |
| 66423 |        |        |          |          | 230    | 125     |         |    |  |   |
| 66424 | 4      | 0,8    | 4        |          | 255    | 150     |         |    |  | ● |
| 66411 |        |        |          | 34       | 405    | 300     | 105     | 8  |  |   |
| 66425 | 5,5    | 1      | 5,5      |          | 255    | 150     |         |    |  | ● |
| 66412 |        |        |          |          | 405    | 300     |         |    |  |   |
| 66426 | 6,5    | 1,2    | 6,5      | 36       | 265    | 150     | 115     | 6  |  |   |
| 67259 |        |        |          |          | 315    | 200     |         |    |  |   |
| 66427 | 8      |        | 8        | 40       | 305    | 175     | 130     |    |  |   |

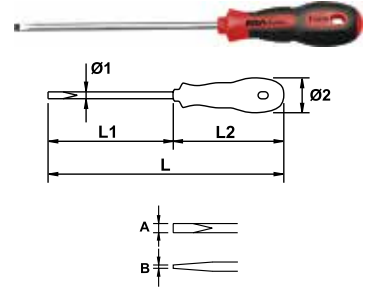


| DIN ISO 2380 | Modelo registrado / Registered model / Modèle enregistré

## EGA

### INCH

| COD.  | A (inch) | B (inch) | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (inch) | L2 (mm) |    |  |  |  |     |
|-------|----------|----------|----------|----------|--------|-----------|---------|----|--|--|--|-----|
| 55352 | 3/32     | 0,016    | 2,5      | 26       | 160    | 3         | 85      | 16 |  |  |  |     |
| 55354 | 1/8      | 0,02     | 3        |          | 185    | 4         |         |    |  |  |  |     |
| 55355 |          |          |          |          | 230    | 5         |         |    |  |  |  |     |
| 55356 | 5/32     | 0,032    | 4        | 34       | 255    | 6         | 105     | 8  |  |  |  |     |
| 55357 |          |          |          |          | 405    | 12        |         |    |  |  |  |     |
| 55358 |          |          |          |          | 255    | 6         |         |    |  |  |  |     |
| 55359 | 7/32     | 0,04     | 5,5      | 40       | 405    | 12        | 130     | 6  |  |  |  |     |
| 55360 | 1/4      | 0,046    | 6,5      |          | 265    | 6         |         |    |  |  |  | 115 |
| 55361 | 5/16     |          | 8        |          | 305    | 7         |         |    |  |  |  |     |

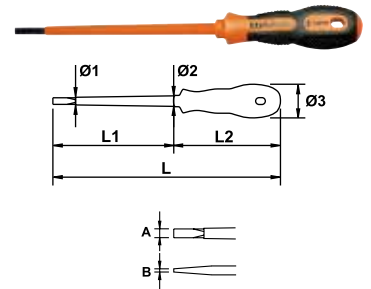


**DIN ISO 2380** | Modelo registrado / Registered model / Modèle enregistré

### 1000V

### MM

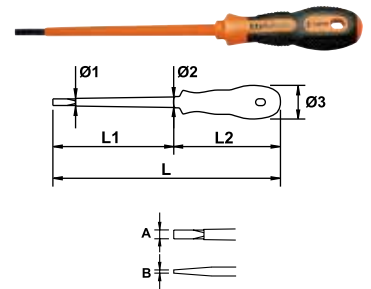
| COD.  | A (mm) | B (mm) | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |  |  |  |
|-------|--------|--------|----------|----------|----------|--------|---------|---------|----|--|--|--|
| 76620 | 2,5    | 0,4    | 4,4      | 6,1      | 26       | 160    | 75      | 85      | 16 |  |  |  |
| 76621 | 3      | 0,5    |          |          |          | 185    | 100     |         |    |  |  |  |
| 76734 | 3,5    | 0,6    |          |          |          | 230    | 125     |         |    |  |  |  |
| 76622 | 4      | 0,8    | 5,4      | 7        | 34       | 230    | 125     | 105     | 8  |  |  |  |
| 76623 |        |        |          |          |          | 255    | 150     |         |    |  |  |  |
| 76624 | 5,5    | 1      | 6,4      | 8,8      |          | 265    | 150     |         |    |  |  |  |
| 76625 | 6,5    | 1,2    | 8,4      | 11       | 36       | 265    | 175     | 130     | 6  |  |  |  |
| 76626 | 8      | 1,2    | 9,4      | 12,3     | 305      | 175    |         |         |    |  |  |  |
| 76627 | 10     | 1,6    | 11,4     | 15       | 330      | 200    |         |         |    |  |  |  |



**1000V** | **DIN ISO 2380** | **IEC 60900** | Modelo registrado / Registered model / Modèle enregistré

### INCH

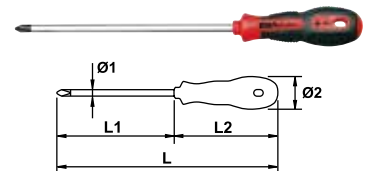
| COD.  | A (inch) | B (inch) | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (inch) | L2 (mm) |    |  |  |  |  |
|-------|----------|----------|----------|----------|----------|--------|-----------|---------|----|--|--|--|--|
| 75063 | 3/32     | 0,016    | 4,4      | 6,1      | 26       | 160    | 3         | 85      | 16 |  |  |  |  |
| 75064 | 1/8      | 0,02     |          |          |          | 185    | 4         |         |    |  |  |  |  |
| 75065 | 5/32     | 0,032    | 5,4      | 7        |          | 230    | 5         | 105     | 8  |  |  |  |  |
| 75066 | 7/32     | 0,04     | 6,4      | 8,8      | 34       | 255    | 6         | 115     | 6  |  |  |  |  |
| 75067 |          |          |          |          |          | 305    | 7         |         |    |  |  |  |  |
| 75068 | 1/4      | 0,046    | 8,4      | 11       | 36       | 265    | 7         |         |    |  |  |  |  |
| 75069 | 5/16     |          | 9,4      | 12,3     | 40       | 305    | 8         | 130     | 6  |  |  |  |  |
| 75081 | 25/64    | 0,063    | 11,4     | 15       | 40       | 330    | 8         |         |    |  |  |  |  |



**1000V** | **DIN ISO 2380** | **IEC 60900** | Modelo registrado / Registered model / Modèle enregistré

### PHILLIPS®\*







| COD.  |      | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |  |  |  |
|-------|------|----------|----------|--------|---------|---------|----|--|--|--|
| 66438 | PH-0 | 3        | 26       | 145    | 60      | 85      | 16 |  |  |  |
| 67562 |      |          |          | 200    | 200     |         |    |  |  |  |
| 66439 | PH-1 | 5        | 34       | 205    | 100     | 105     | 8  |  |  |  |
| 66437 |      |          |          | 405    | 300     |         |    |  |  |  |
| 66440 | PH-2 | 6        | 36       | 240    | 125     | 115     | 6  |  |  |  |
| 66443 |      |          |          | 415    | 300     |         |    |  |  |  |
| 66441 | PH-3 | 8        | 40       | 280    | 150     | 130     | 6  |  |  |  |
| 66442 | PH-4 | 10       | 40       | 330    | 200     |         |    |  |  |  |

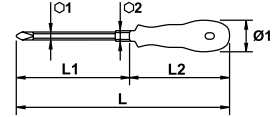


**DIN ISO 8764** | Modelo registrado / Registered model / Modèle enregistré

\*Para tornillos PHILLIPS® (Marca registrada por Phillips Screw Company) / \*For screws PHILLIPS® (Phillips Screw Company registered trademark) / \*Pour vis PHILLIPS® (Marque enregistrée par Phillips Screw Company)

**EGA**








| COD.  |  | HEX 1 (mm) | HEX 2 (mm) | Ø 1 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|------------|------------|----------|--------|---------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66444 | PH-1                                                                              | 5          | 8          | 34       | 205    | 100     | 105     | 8                                                                                 |                                                                                   |  |
| 66445 | PH-2                                                                              | 6          |            | 36       | 240    | 125     | 115     |                                                                                   |  |                                                                                     |
| 66446 | PH-3                                                                              | 8          | 11         |          | 280    | 150     |         | 6                                                                                 |                                                                                   |                                                                                     |
| 66447 | PH-4                                                                              | 10         | 16         | 40       | 330    | 200     |         |                                                                                   |                                                                                   |                                                                                     |

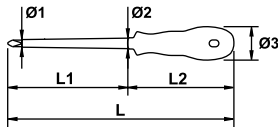

 | DIN ISO 8764 | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**






Hexagonal / Hexagonal / Hexagonale

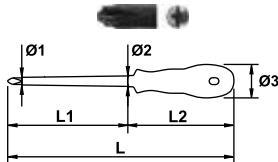
**1000V**

| COD.  |  | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|----------|----------|----------|--------|---------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 76628 | PH-0                                                                              | 4,4      | 5        | 26       | 145    | 60      | 85      | 16                                                                                |                                                                                   |  |
| 76738 | PH-1                                                                              | 6,4      | 7,6      | 34       | 185    | 80      | 105     | 8                                                                                 |                                                                                   |  |
| 76629 | PH-1                                                                              | 6,4      | 7,6      | 34       | 205    | 100     | 105     | 8                                                                                 |                                                                                   |                                                                                     |
| 76630 | PH-2                                                                              | 7,4      | 9,6      | 36       | 240    | 125     | 115     |                                                                                   |  |                                                                                     |
| 76631 | PH-3                                                                              | 9,4      | 12,3     | 40       | 280    | 150     | 130     | 6                                                                                 |                                                                                   |                                                                                     |
| 76632 | PH-4                                                                              | 9,4      | 12,3     | 40       | 330    | 200     |         |                                                                                   |                                                                                   |                                                                                     |










 | 1000V | DIN ISO 8764 | IEC 60900 | Modelo registrado / Registered model / Modèle enregistré

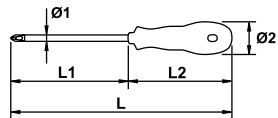
**PLANO-PHILLIPS\*\* PARA BORNES ELÉCTRICOS / SLOTTED-PHILLIPS\*\* FOR TERMINAL SCREWS / PHILLIPS\*\* À FENTE POUR BORNES ÉLECTRIQUES / SCHLITZ-PHILLIPS\*\* SCHRAUBENDREHER FÜR SCHRAUBKLEMMEN / TAGLIO-PHILLIPS\*\* PER TERMINALI ELETTRICI / FENDA-PHILLIPS\*\* PARA BORNES ELÉCTRICOS / ОТВЕРТКА КРЕТОВАЯ КЛЕММНАЯ PH**
**1000V**





| COD.  |  | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |
|-------|-------------------------------------------------------------------------------------|----------|----------|----------|--------|---------|---------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 79163 |  | PH-1     | 6,4      | 7,6      | 34     | 205     | 100     | 105                                                                                  | 8                                                                                     |
| 79164 |  | PH-2     | 7,4      | 9,6      | 36     | 240     | 125     | 115                                                                                  | 6                                                                                     |

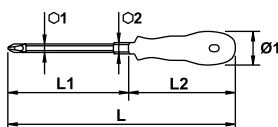

 | 1000V | IEC 60900 | Modelo registrado / Registered model / Modèle enregistré

**POZIDRIV\*\***

| COD.  |  | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|----------|----------|--------|---------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66456 | PZ-0                                                                                | 3        | 26       | 145    | 60      | 85      | 16                                                                                  |                                                                                     |  |
| 66457 | PZ-1                                                                                | 5        | 34       | 205    | 100     | 105     | 8                                                                                   |                                                                                     |  |
| 66472 | PZ-1                                                                                | 5        | 34       | 405    | 300     | 105     | 8                                                                                   |                                                                                     |    |
| 66458 | PZ-2                                                                                | 6        | 36       | 240    | 125     | 115     |                                                                                     |                                                                                     |  |
| 66473 | PZ-2                                                                                | 6        | 36       | 415    | 300     |         | 6                                                                                   |                                                                                     |                                                                                       |
| 66459 | PZ-3                                                                                | 8        |          | 280    | 150     | 130     |                                                                                     |                                                                                     |                                                                                       |
| 66460 | PZ-4                                                                                | 10       | 40       | 330    | 200     |         |                                                                                     |                                                                                     |                                                                                       |


 | DIN ISO 8764 | Modelo registrado / Registered model / Modèle enregistré

| COD.  |  | HEX 1 (mm) | HEX 2 (mm) | Ø 1 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |
|-------|-------------------------------------------------------------------------------------|------------|------------|----------|--------|---------|---------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66462 | PZ-1                                                                                | 5          | 8          | 34       | 205    | 100     | 105     | 8                                                                                    |                                                                                       |
| 66463 | PZ-2                                                                                | 6          |            | 36       | 240    | 125     | 115     |                                                                                      |  |
| 66464 | PZ-3                                                                                | 8          | 11         |          | 278    | 150     | 128     | 6                                                                                    |                                                                                       |
| 66465 | PZ-4                                                                                | 10         | 16         | 40       | 328    | 200     |         |                                                                                      |                                                                                       |









 | DIN ISO 8764 | Modelo registrado / Registered model / Modèle enregistré

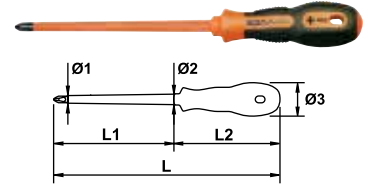
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Hexagonal / Hexagonal / Hexagonale

\* Para tornillos PHILLIPS® (Marca registrada por Phillips Screw Company) / \*For screws PHILLIPS® (Phillips Screw Company registered trademark) / \*Pour vis PHILLIPS® (Marque enregistrée par Phillips Screw Company)  
 \*\* Para tornillos POZIDRIV® (Marca registrada por European Ind. Serv. Ltd.) / \*\*For screws POZIDRIV® (European Ind. Serv. Ltd. registered trademark) / \*\*Pour vis POZIDRIV® (Marque enregistrée par European Ind. Serv. Ltd.)

**EGA**
**1000V**





| COD.  |  | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|----------|----------|----------|--------|---------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 76633 | PZ-0                                                                              | 4,4      | 5        | 26       | 145    | 60      | 85      | 16                                                                                |                                                                                   |  |
| 76634 | PZ-1                                                                              | 6,4      | 7,6      | 34       | 205    | 100     | 105     | 8                                                                                 |                                                                                   |  |
| 76635 | PZ-2                                                                              | 7,4      | 9,6      | 36       | 240    | 125     | 115     |                                                                                   |  |                                                                                     |
| 76636 | PZ-3                                                                              |          |          |          | 280    | 150     | 130     | 6                                                                                 |                                                                                   |                                                                                     |
| 76637 | PZ-4                                                                              | 9,4      | 12,3     | 40       | 330    | 200     | 130     |                                                                                   |                                                                                   |                                                                                     |

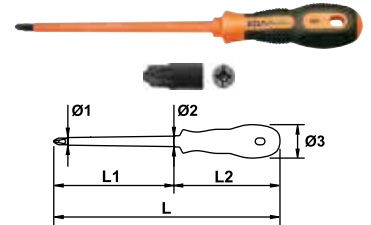


 **1000V** | DIN ISO 8764 | IEC 60900 | Modelo registrado / Registered model / Modèle enregistré

**PLANO-POZIDRIV® PARA BORNES ELÉCTRICOS / SLOTTED-POZIDRIV® FOR TERMINAL SCREWS / POZIDRIV® -À FENTE POUR BORNES ÉLECTRIQUES / SCHLITZ-POZIDRIV® SCHRAUBENDREHER FÜR SCHRAUBKLEMMEN / TAGLIO-POZIDRIV® PER TERMINALI ELETTRICI / FENDA-POZIDRIV® PARA BORNES ELÉCTRICOS / ОТВЕРТКА КРЕТОВАЯ КЛЕМНАЯ POZIDRIV®**









**1000V**

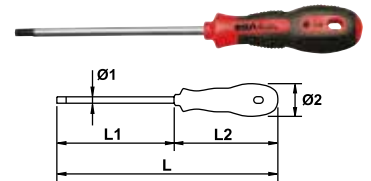
| COD.  |  | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |
|-------|-----------------------------------------------------------------------------------|----------|----------|----------|--------|---------|---------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 79165 | PZ-1                                                                              | 6,4      | 7,6      | 34       | 205    | 100     | 105     | 8                                                                                  |                                                                                     |
| 79166 | PZ-2                                                                              | 7,4      | 9,6      | 36       | 240    | 125     | 115     | 6                                                                                  |  |



 **1000V** | IEC 60900 | Modelo registrado / Registered model / Modèle enregistré









**TORX®**

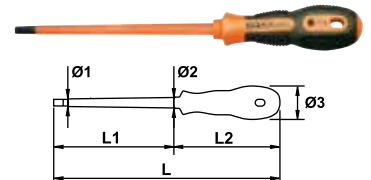
| COD.  |  | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|----------|----------|--------|---------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66474 | T-6                                                                                 |          |          |        |         |         |                                                                                     |                                                                                     |                                                                                       |
| 66475 | T-7                                                                                 |          |          | 135    | 50      |         |                                                                                     |                                                                                     |                                                                                       |
| 66476 | T-8                                                                                 | 3        | 26       |        |         | 85      |                                                                                     |                                                                                     |  |
| 66477 | T-9                                                                                 |          |          |        |         | 16      |                                                                                     |                                                                                     |                                                                                       |
| 66478 | T-10                                                                                |          |          | 160    | 75      |         |                                                                                     |                                                                                     |                                                                                       |
| 66479 | T-15                                                                                |          |          | 180    |         |         |                                                                                     |                                                                                     |                                                                                       |
| 66480 | T-20                                                                                | 4        |          |        |         |         |                                                                                     |                                                                                     |    |
| 66481 | T-25                                                                                |          | 34       | 205    | 100     | 105     |                                                                                     |                                                                                     |  |
| 66482 | T-27                                                                                | 5        |          | 220    | 115     |         |                                                                                     | 8                                                                                   |                                                                                       |
| 66483 | T-30                                                                                | 6        | 36       | 240    | 125     | 115     |                                                                                     |                                                                                     |  |
| 66484 | T-40                                                                                | 7        |          | 255    |         |         |                                                                                     |                                                                                     |                                                                                       |
| 66485 | T-45                                                                                | 8        | 40       | 280    | 150     | 130     | 6                                                                                   |                                                                                     |                                                                                       |
| 66486 | T-50                                                                                | 10       |          | 305    | 175     |         |                                                                                     |                                                                                     |                                                                                       |



 | Modelo registrado / Registered model / Modèle enregistré

**1000V**







| COD.  |  | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|----------|----------|----------|--------|---------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 76638 | T-6                                                                                 |          |          |          |        |         |         |                                                                                     |                                                                                     |                                                                                       |
| 76639 | T-7                                                                                 |          | 8        |          | 135    | 50      |         |                                                                                     |                                                                                     |                                                                                       |
| 76640 | T-8                                                                                 | 4,4      |          | 26       |        |         | 85      |                                                                                     |                                                                                     |  |
| 76641 | T-9                                                                                 |          | 5        |          |        |         | 16      |                                                                                     |                                                                                     |                                                                                       |
| 76642 | T-10                                                                                |          |          |          | 160    | 75      |         |                                                                                     |  |                                                                                       |
| 76643 | T-15                                                                                |          |          |          | 180    |         |         |                                                                                     |                                                                                     |                                                                                       |
| 76644 | T-20                                                                                | 5,8      |          |          |        |         |         |                                                                                     |                                                                                     |  |
| 76645 | T-25                                                                                |          | 8        | 34       | 205    | 100     | 105     |                                                                                     |                                                                                     |                                                                                       |
| 76646 | T-27                                                                                | 6,4      |          |          | 220    | 115     |         | 8                                                                                   |                                                                                     |                                                                                       |
| 76647 | T-30                                                                                | 7,4      | 9,6      | 36       | 240    | 125     | 115     |                                                                                     |                                                                                     |                                                                                       |
| 76648 | T-40                                                                                | 8,7      |          |          | 255    | 125     |         |                                                                                     |                                                                                     |                                                                                       |
| 76649 | T-45                                                                                | 9,4      | 12,3     | 40       | 280    | 150     | 128     | 6                                                                                   |                                                                                     |    |
| 76650 | T-50                                                                                | 11,4     | 15       |          | 305    | 175     |         |                                                                                     |                                                                                     |                                                                                       |

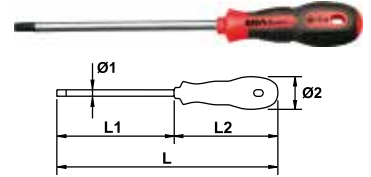


 **1000V** | IEC 60900 | Modelo registrado / Registered model / Modèle enregistré

- \*Para tornillos POZIDRIV® (Marca registrada por European Ind. Serv. Ltd.) / \*For screws POZIDRIV® (European Ind. Serv. Ltd. registered trademark) / \*Pour vis POZIDRIV® (Marque enregistrée par European Ind. Serv. Ltd.)
- \*Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)





**EGA**
**TAMPER TORX**

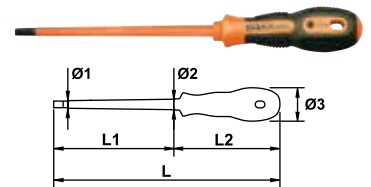
| COD.  |  | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |    |  |
|-------|-----------------------------------------------------------------------------------|----------|----------|--------|---------|---------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66487 | TT-6                                                                              |          |          |        |         |         |                                                                                   |                                                                                     |                                                                                     |
| 66488 | TT-7                                                                              |          |          | 135    | 50      |         |                                                                                   |                                                                                     |                                                                                     |
| 66489 | TT-8                                                                              | 3        |          |        |         |         |                                                                                   |  |                                                                                     |
| 66490 | TT-9                                                                              |          | 26       |        |         | 85      | 16                                                                                |                                                                                     |                                                                                     |
| 66491 | TT-10                                                                             |          |          | 160    | 75      |         |                                                                                   |                                                                                     |                                                                                     |
| 66492 | TT-15                                                                             |          |          |        |         |         |                                                                                   |    |                                                                                     |
| 66493 | TT-20                                                                             | 4        |          | 185    | 100     |         |                                                                                   |                                                                                     |                                                                                     |
| 66494 | TT-25                                                                             |          |          | 205    |         |         |                                                                                   |                                                                                     |                                                                                     |
| 66495 | TT-27                                                                             | 5        | 34       | 220    | 115     | 105     | 8                                                                                 |                                                                                     |                                                                                     |
| 66496 | TT-30                                                                             | 6        | 36       | 240    | 125     | 115     |                                                                                   |                                                                                     |                                                                                     |
| 66497 | TT-40                                                                             | 7        |          | 255    |         |         |                                                                                   |                                                                                     |                                                                                     |
| 66498 | TT-45                                                                             | 8        | 40       | 280    | 150     | 130     | 6                                                                                 |                                                                                     |                                                                                     |
| 66499 | TT-50                                                                             | 10       |          | 305    | 175     |         |                                                                                   |                                                                                     |                                                                                     |



 Modelo registrado / Registered model / Modèle enregistré







**1000V**

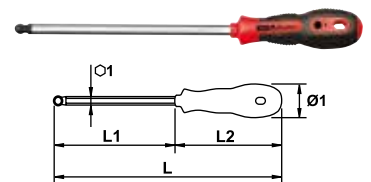
| COD.  |  | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |    |
|-------|-----------------------------------------------------------------------------------|----------|----------|----------|--------|---------|---------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 75037 | TT-6                                                                              |          |          |          |        |         |         |                                                                                   |                                                                                       |
| 75038 | TT-7                                                                              |          | 8        |          | 135    | 50      |         |                                                                                   |                                                                                       |
| 75039 | TT-8                                                                              | 4,4      |          | 26       |        |         | 85      |                                                                                   |                                                                                       |
| 75040 | TT-9                                                                              |          | 5        |          | 160    | 75      |         | 16                                                                                |                                                                                       |
| 75041 | TT-10                                                                             |          |          |          | 180    |         |         |                                                                                   |                                                                                       |
| 75042 | TT-15                                                                             | 5,8      |          |          | 205    | 100     | 105     |                                                                                   |  |
| 75043 | TT-20                                                                             |          | 8        | 34       | 220    | 115     |         | 8                                                                                 |                                                                                       |
| 75044 | TT-25                                                                             | 6,4      |          |          | 240    | 125     | 115     |                                                                                   |                                                                                       |
| 75045 | TT-27                                                                             |          |          |          | 255    |         |         |                                                                                   |                                                                                       |
| 75046 | TT-30                                                                             | 7,4      | 9,6      | 36       | 280    | 150     | 128     | 6                                                                                 |                                                                                       |
| 75047 | TT-40                                                                             | 8,7      |          |          | 305    | 175     |         |                                                                                   |                                                                                       |
| 75048 | TT-45                                                                             | 9,4      | 12,3     | 40       |        |         |         |                                                                                   |                                                                                       |
| 75049 | TT-50                                                                             | 11,4     | 15       |          |        |         |         |                                                                                   |                                                                                       |



  1000V | IEC 60900 | Modelo registrado / Registered model / Modèle enregistré

**PUNTA ESFERA / BALL TIP / TÊTE SPHÉRIQUE / KUGELKOPF / TESTA SFERICA / PONTA ESFERICA / С ШАРОВОЙ ГОЛОВКОЙ**
**MM**







| COD.  | HEX 1 (mm) | Ø 1 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |  |
|-------|------------|----------|--------|---------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66501 | 2,5        |          |        |         |         |                                                                                     |                                                                                     |                                                                                       |
| 66502 | 3          | 26       | 160    | 75      | 85      | 16                                                                                  |  |  |
| 66503 | 4          |          | 185    | 100     |         |                                                                                     |                                                                                     |  |

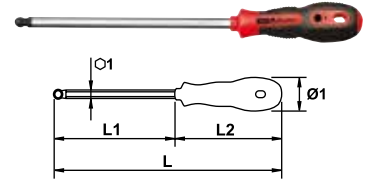


 Modelo registrado / Registered model / Modèle enregistré

## EGA

### INCH

| COD.  | HEX 1 (inch) | Ø 1 (mm) | L (mm) | L1 (inch) | L2 (mm) |  |  |  |
|-------|--------------|----------|--------|-----------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 55364 | 1/8          | 26       | 160    | 3         | 85      | 16                                                                                |                                                                                   |  |
| 55365 | 5/32         | 26       | 185    | 4         | 85      | 16                                                                                |  |  |
| 55362 | 13/64        | 34       | 205    | 4         | 105     | 8                                                                                 |                                                                                   |                                                                                     |
| 55368 | 5/16         | 40       | 280    | 6         | 130     | 6                                                                                 | -                                                                                 | -                                                                                   |
| 55369 | 25/64        | 40       | 280    | 6         | 130     | 6                                                                                 | -                                                                                 | -                                                                                   |







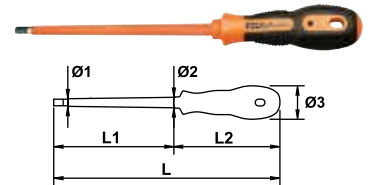
 **Modelo registrado / Registered model / Modèle enregistré**

### HEXAGONAL ALLEN

### 1000V





### MM

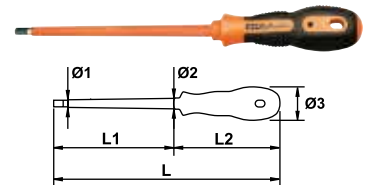
| COD.  |  | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |
|-------|-----------------------------------------------------------------------------------|----------|----------|----------|--------|---------|---------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 74710 | 2,5                                                                               | 4,4      | 6        | 26       | 160    | 75      | 85      | 16                                                                                |                                                                                     |
| 74711 | 3                                                                                 | 4,4      | 6        | 26       | 160    | 75      | 85      | 16                                                                                |                                                                                     |
| 74712 | 4                                                                                 | 5,8      | 8        | 34       | 185    | 100     | 105     | 8                                                                                 |  |
| 74713 | 5                                                                                 | 6,4      | 8        | 34       | 205    | 100     | 105     | 8                                                                                 |                                                                                     |
| 74714 | 6                                                                                 | 7,8      | 11,2     | 40       | 230    | 125     | 130     | 6                                                                                 |                                                                                     |
| 74715 | 8                                                                                 | 9,8      | 13,4     | 40       | 280    | 150     | 130     | 6                                                                                 | -                                                                                   |



 **1000V** | **ICE 60900** | **Modelo registrado / Registered model / Modèle enregistré**










### INCH

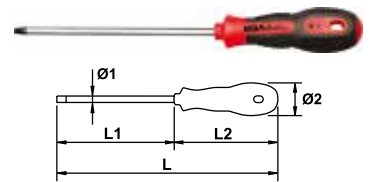
| COD.  |  | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (inch) | L2 (mm) |  |  |
|-------|-------------------------------------------------------------------------------------|----------|----------|----------|--------|-----------|---------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 75083 | 1/8                                                                                 | 4,4      | 6        | 26       | 160    | 3         | 85      | 16                                                                                  |                                                                                       |
| 75084 | 5/32                                                                                | 5,8      | 8        | 34       | 185    | 4         | 105     | 8                                                                                   |  |
| 75131 | 13/64                                                                               | 6,4      | 8        | 34       | 205    | 4         | 105     | 8                                                                                   |                                                                                       |
| 75097 | 5/16                                                                                | 9,8      | 13,4     | 40       | 280    | 6         | 130     | 6                                                                                   | -                                                                                     |



 **1000V** | **ICE 60900** | **Modelo registrado / Registered model / Modèle enregistré**

### ROBERTSON

| COD.  |  |  | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------|----------|--------|---------|---------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66530 | 1                                                                                   | 2,4                                                                                 | 4        | 26       | 185    | 100     | 85      | 16                                                                                  |                                                                                      |  |
| 66531 | 2                                                                                   | 2,8                                                                                 | 5        | 34       | 230    | 125     | 105     | 8                                                                                   |   |  |
| 66532 | 3                                                                                   | 3,4                                                                                 | 6        | 36       | 265    | 150     | 115     | 6                                                                                   |                                                                                      |  |








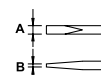
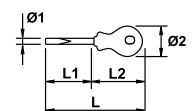
 **Modelo registrado / Registered model / Modèle enregistré**

### CARROCERO / STUBBY / TOM POUCE / SCHRAUBENDREHER, KURZE FORM / CACCIAVITI NANI / COTOS / КОПОТКАЯ

### ELECTRICISTA / ELECTRICIAN / ELECTRICIEN / ELEKTRIK / PER ELETTRICISTI / ELETRICISTA / ЭЛЕКТРИЧЕСКАЯ

### MM


| COD.  | A (mm) | B (mm) | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |
|-------|--------|--------|----------|----------|--------|---------|---------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66529 | 4      | 0,8    | 4        | 40       | 85     | 25      | 60      | 20                                                                                  |  |
| 66525 | 5,5    | 1,2    | 5,5      | 40       | 85     | 25      | 60      | 20                                                                                  |  |
| 66538 | 6,5    | 1,2    | 6,5      | 40       | 85     | 25      | 60      | 20                                                                                  |  |



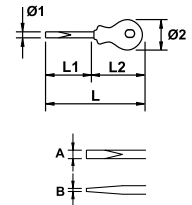
 **DIN ISO 2380** | **Modelo registrado / Registered model / Modèle enregistré**

## EGA




### INCH

| COD.         | A (inch) | B (inch) | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (inch) | L2 (mm) |  |  |
|--------------|----------|----------|----------|----------|--------|-----------|---------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>55371</b> | 7/32     | 0,046    | 5,5      | 40       | 85     | 1         | 60      | 20                                                                                | ●                                                                                   |

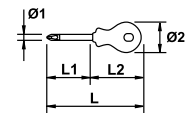
 **DIN ISO 2380** | Modelo registrado / Registered model / Modèle enregistré






### PHILLIPS®\*

| COD.         |  | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |
|--------------|-----------------------------------------------------------------------------------|----------|----------|--------|---------|---------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>67192</b> | PH-1                                                                              | 5        | 40       | 85     | 25      | 60      | 20                                                                                | ●                                                                                   |
| <b>66526</b> | PH-2                                                                              | 6        | 40       | 85     | 25      | 60      | 20                                                                                | ●                                                                                   |

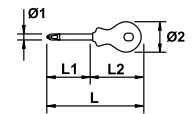
 **DIN ISO 8764** | Modelo registrado / Registered model / Modèle enregistré



### POZIDRIV®\*




| COD.         |  | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |
|--------------|-------------------------------------------------------------------------------------|----------|----------|--------|---------|---------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>67193</b> | PZ-1                                                                                | 5        | 40       | 85     | 25      | 60      | 20                                                                                  | ●                                                                                     |
| <b>66527</b> | PZ-2                                                                                | 6        | 40       | 85     | 25      | 60      | 20                                                                                  | ●                                                                                     |

 **DIN ISO 8764** | Modelo registrado / Registered model / Modèle enregistré

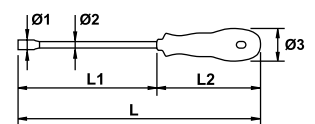


### DE VASO / SOCKET SCREWDRIVER / CLÉ À DOUILLE EMMANCHÉE / STECKSCHLÜSSEL / BUSSOLE / DE CAIXA / ОТВЕРТКА С ГОЛОВКОЙ




### MM

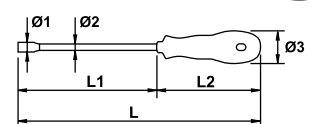
| COD.         |  | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |
|--------------|-------------------------------------------------------------------------------------|----------|----------|----------|--------|---------|---------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>66510</b> | 4                                                                                   | 8        |          |          |        |         |         |                                                                                     |                                                                                       |
| <b>66511</b> | 5                                                                                   | 8,5      | 5        | 34       | 255    | 150     | 105     | 8                                                                                   |                                                                                       |
| <b>66512</b> | 5,5                                                                                 | 8,5      |          |          |        |         |         |                                                                                     |                                                                                       |
| <b>66513</b> | 6                                                                                   | 10       |          |          |        |         |         |                                                                                     |                                                                                       |
| <b>66509</b> | 6,5                                                                                 | 10       | 6        | 36       | 275    | 160     | 115     |                                                                                     |                                                                                       |
| <b>66514</b> | 7                                                                                   | 11       |          |          | 290    |         |         |                                                                                     |                                                                                       |
| <b>66515</b> | 8                                                                                   | 14       |          |          |        |         |         |                                                                                     | ●                                                                                     |
| <b>66516</b> | 9                                                                                   | 14       | 8        |          |        |         |         |                                                                                     |                                                                                       |
| <b>66517</b> | 10                                                                                  | 15       |          |          |        |         |         | 6                                                                                   |                                                                                       |
| <b>66518</b> | 11                                                                                  | 17       |          | 40       | 305    | 175     | 130     |                                                                                     |                                                                                       |
| <b>66519</b> | 12                                                                                  | 17       |          |          |        |         |         |                                                                                     |                                                                                       |
| <b>66520</b> | 13                                                                                  | 19       | 9        |          |        |         |         |                                                                                     |                                                                                       |
| <b>66521</b> | 14                                                                                  | 20       |          |          |        |         |         |                                                                                     |                                                                                       |

 **DIN ISO 8764** | Modelo registrado / Registered model / Modèle enregistré



### INCH

| COD.         |  | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (inch) | L2 (mm) |  |  |
|--------------|-------------------------------------------------------------------------------------|----------|----------|----------|--------|-----------|---------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>55373</b> | 5/32                                                                                | 8        |          |          |        |           |         |                                                                                     |                                                                                       |
| <b>55374</b> | 3/16                                                                                | 8        | 5        | 34       | 255    | 6         | 105     | 8                                                                                   |                                                                                       |
| <b>55375</b> | 7/32                                                                                | 8,5      |          |          |        |           |         |                                                                                     |                                                                                       |
| <b>55376</b> | 1/4                                                                                 | 10       | 6        | 36       | 275    |           | 115     | 6                                                                                   |                                                                                       |



\*Para tornillos PHILLIPS® (Marca registrada por Phillips Screw Company) / \*For screws PHILLIPS® (Phillips Screw Company registered trademark) / \*Pour vis PHILLIPS® (Marque enregistrée par Phillips Screw Company)  
\*Para tornillos POZIDRIV® (Marca registrada por European Ind. Serv. Ltd.) / \*For screws POZIDRIV® (European Ind. Serv. Ltd. registered trademark) / \*Pour vis POZIDRIV® (Marque enregistrée par European Ind. Serv. Ltd.)






# 05

**DESTORNILLADORES**  
**SCREWDRIVERS**  
**TOURNEVIS**  
**SCHRAUBENZIEHER**  
**CACCIAVITI**  
**CHAVES DE FENDA**  
**OTBEPTKИ**






## EGA

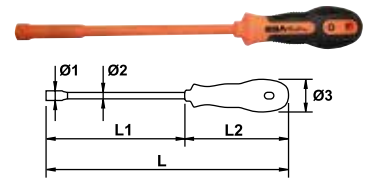
| COD.  |  | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (inch) | L2 (mm) |  |  |
|-------|-----------------------------------------------------------------------------------|----------|----------|----------|--------|-----------|---------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 55378 | 5/16                                                                              |          | 8        |          |        |           |         |                                                                                   |                                                                                     |
| 55379 | 11/32                                                                             | 14       | 7        |          |        |           |         |                                                                                   |                                                                                     |
| 55372 | 3/8                                                                               |          | 8        |          |        |           |         |                                                                                   |                                                                                     |
| 55380 | 25/64                                                                             | 15       |          | 40       | 305    | 7         | 130     | 6                                                                                 | •                                                                                   |
| 55385 | 7/16                                                                              | 20       | 9        |          |        |           |         |                                                                                   |                                                                                     |
| 55382 | 15/32                                                                             | 17       |          |          |        |           |         |                                                                                   |                                                                                     |
| 55383 | 1/2                                                                               | 19       | 7        |          |        |           |         |                                                                                   |                                                                                     |

 **Modelo registrado / Registered model / Modèle enregistré**

■ 1000V




■ MM

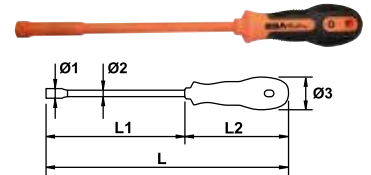
| COD.  |  | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |
|-------|-----------------------------------------------------------------------------------|----------|----------|----------|--------|---------|---------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 74698 | 4                                                                                 |          |          |          |        |         |         |                                                                                   |                                                                                     |
| 74699 | 5                                                                                 | 11       | 7,5      | 34       | 255    | 150     | 105     | 8                                                                                 |                                                                                     |
| 74700 | 5,5                                                                               |          |          |          |        |         |         |                                                                                   |                                                                                     |
| 74701 | 6                                                                                 | 12,5     | 8,5      | 36       | 275    | 160     | 115     |                                                                                   |                                                                                     |
| 74702 | 7                                                                                 |          |          |          | 290    |         |         |                                                                                   |                                                                                     |
| 74703 | 8                                                                                 |          |          |          |        |         |         |                                                                                   |                                                                                     |
| 74704 | 9                                                                                 | 16       | 10,5     |          |        |         |         |                                                                                   | •                                                                                   |
| 74705 | 10                                                                                |          |          |          |        |         |         | 6                                                                                 |                                                                                     |
| 74706 | 11                                                                                | 19       |          | 40       | 305    | 175     | 130     |                                                                                   |                                                                                     |
| 74707 | 12                                                                                |          | 11,5     |          |        |         |         |                                                                                   |                                                                                     |
| 74708 | 13                                                                                | 21       |          |          |        |         |         |                                                                                   |                                                                                     |
| 74709 | 14                                                                                |          |          |          |        |         |         |                                                                                   |                                                                                     |



  **1000V | IEC 60900 | Modelo registrado / Registered model / Modèle enregistré**







■ INCH

| COD.  |  | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (inch) | L2 (mm) |  |  |
|-------|-------------------------------------------------------------------------------------|----------|----------|----------|--------|-----------|---------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 75132 | 5/32                                                                                |          |          |          |        |           |         |                                                                                     |                                                                                       |
| 74984 | 3/16                                                                                | 11       | 7,5      | 34       | 255    | 6         | 105     | 8                                                                                   |                                                                                       |
| 75133 | 7/32                                                                                |          |          |          |        |           |         |                                                                                     |                                                                                       |
| 74985 | 1/4                                                                                 | 12,5     | 8,5      | 36       | 275    |           | 115     |                                                                                     |                                                                                       |
| 74986 | 5/16                                                                                |          |          |          |        |           |         |                                                                                     |                                                                                       |
| 74987 | 3/8                                                                                 | 16       | 10,5     |          |        |           |         |                                                                                     | •                                                                                     |
| 75136 | 25/64                                                                               |          |          | 40       | 305    | 7         | 130     | 6                                                                                   |                                                                                       |
| 74988 | 7/16                                                                                | 19       | 11,5     |          |        |           |         |                                                                                     |                                                                                       |
| 75138 | 15/32                                                                               |          |          |          |        |           |         |                                                                                     |                                                                                       |
| 74989 | 1/2                                                                                 | 21       |          |          |        |           |         |                                                                                     |                                                                                       |



  **1000V | IEC 60900 | Modelo registrado / Registered model / Modèle enregistré**




■ MM

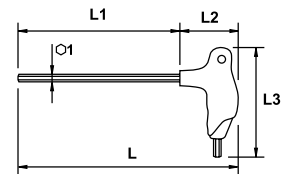
| COD.  |  |  |  |  |  |  |
|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 74664 | 9                                                                                   |                                                                                     |                                                                                     |                                                                                     | 6                                                                                   | •                                                                                     |
| 74665 | 10                                                                                  | 11                                                                                  | 130                                                                                 | 115                                                                                 | 6                                                                                   | •                                                                                     |






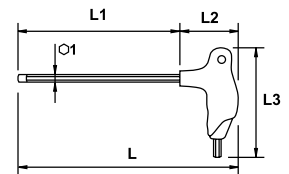
  **1000V | IEC 60900**




**EGA**
**T - MASTERTORK**
**HEXAGONAL ALLEN**
**MM**

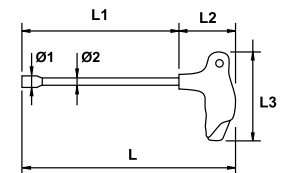
| COD.  |  mm | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) |  |  |
|-------|--------------------------------------------------------------------------------------|--------|---------|---------|---------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66571 | 2,5                                                                                  |        |         |         |         |                                                                                   |                                                                                     |
| 66572 | 3                                                                                    | 165    | 125     | 40      | 75      | 16                                                                                |                                                                                     |
| 66573 | 4                                                                                    |        |         |         |         |                                                                                   | •                                                                                   |
| 66574 | 5                                                                                    |        |         |         |         |                                                                                   |                                                                                     |
| 66575 | 6                                                                                    | 200    | 150     | 50      | 100     | 8                                                                                 |                                                                                     |
| 66576 | 8                                                                                    | 240    | 175     |         |         |                                                                                   |                                                                                     |
| 66577 | 10                                                                                   | 265    | 200     | 65      | 125     | 6                                                                                 | -                                                                                   |


**TORX®\***

| COD.  |  mm | HEX 1 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) |  |  |
|-------|--------------------------------------------------------------------------------------|------------|--------|---------|---------|---------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66581 | T-6                                                                                  |            |        |         |         |         |                                                                                   |                                                                                     |
| 66582 | T-7                                                                                  |            |        |         |         |         |                                                                                   |                                                                                     |
| 66583 | T-8                                                                                  | 3          |        |         |         |         |                                                                                   |                                                                                     |
| 66584 | T-9                                                                                  |            | 165    | 125     | 40      | 75      | 16                                                                                |                                                                                     |
| 66585 | T-10                                                                                 |            |        |         |         |         |                                                                                   | •                                                                                   |
| 66586 | T-15                                                                                 | 3,5        |        |         |         |         |                                                                                   |                                                                                     |
| 66587 | T-20                                                                                 | 4          |        |         |         |         |                                                                                   |                                                                                     |
| 66588 | T-25                                                                                 | 4,5        |        |         |         |         |                                                                                   |                                                                                     |
| 66589 | T-27                                                                                 | 5,5        | 200    | 150     | 50      | 100     | 8                                                                                 |                                                                                     |
| 66590 | T-30                                                                                 | 6          |        |         |         |         |                                                                                   |                                                                                     |
| 66591 | T-40                                                                                 | 7          |        |         |         |         |                                                                                   |                                                                                     |
| 66592 | T-45                                                                                 | 8          | 240    | 175     | 65      | 125     | 6                                                                                 | -                                                                                   |
| 66593 | T-50                                                                                 | 9          |        |         |         |         |                                                                                   |                                                                                     |





**DE VASO / SOCKET SCREWDRIVER / CLÉ À DOUILLE EMMANCHÉE / STECKSCHLÜSSEL / BUSSOLE / DE CAIXA / ОТВЕРТКА С ГОЛОВКОЙ**
**MM**

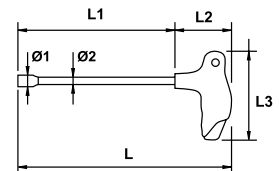
| COD.  |  mm | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) |  |  |
|-------|----------------------------------------------------------------------------------------|----------|----------|--------|---------|---------|---------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66596 | 5                                                                                      | 8,5      | 5        | 200    | 150     |         |         |                                                                                     |                                                                                       |
| 66597 | 6                                                                                      | 10       | 6        | 210    | 160     | 50      | 80      | 8                                                                                   |                                                                                       |
| 66598 | 7                                                                                      | 11       | 6        | 225    |         |         |         |                                                                                     |                                                                                       |
| 66599 | 8                                                                                      | 13       |          |        |         |         |         |                                                                                     | •                                                                                     |
| 66600 | 9                                                                                      | 14       | 8        |        |         |         |         |                                                                                     |                                                                                       |
| 66601 | 10                                                                                     | 15       |          | 240    | 175     | 65      | 100     | 6                                                                                   |                                                                                       |
| 66602 | 11                                                                                     | 17       |          |        |         |         |         |                                                                                     |                                                                                       |
| 66603 | 12                                                                                     | 17       | 9        |        |         |         |         |                                                                                     |                                                                                       |
| 66604 | 13                                                                                     | 19       |          |        |         |         |         |                                                                                     |                                                                                       |



## EGA

### INCH

| COD.  |  | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) |  |  |
|-------|-----------------------------------------------------------------------------------|----------|----------|--------|---------|---------|---------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 55397 | 5/16                                                                              | 13       |          |        |         |         |         |                                                                                   |                                                                                     |
| 55399 | 25/64                                                                             | 15       | 8        | 240    | 7       | 65      | 100     | 6                                                                                 | •                                                                                   |
| 55401 | 15/32                                                                             | 17       | 9        |        |         |         |         |                                                                                   |                                                                                     |



### MASTERPUNCH - ALL THROUGH





Sistema de punta antideslizante **NON-SLIP** y magnética / *NON-SLIP antislippery magnetic tip* / *NON-SLIP pointe brunie antidérapante et magnétique* / *NON-SLIP Anti-Rutsch-Spitze*  
 Punta antiscivolo **NON-SLIP** / *Sistema de punta antideslizante de chave NON-SLIP* / Нескользкий магнитный наконечник



Varilla pasante, permite el golpeo en su parte superior / *Go-through bar enables hammering on the screwdriver's upper side* / *Tige traversante permettant le frapper sur la partie supérieure du manche* / *Vorstecker mit Schlagfesten Griff* / *Cacciavite a lame passante a battere* / *Chave de fenda - haste interna, permite pancada na sua parte superior* / Проходящий через ручку стержень позволяет наносить удары по верхней части отвертки

### MECÁNICO / SLOTTED / MECANICIEN / FÜR SCHLITZSCHRAUBEN / PER MECCANICI / MECÂNICO / ПЛОСКАЯ

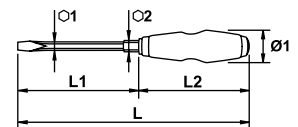
### MM

| COD.  | A (mm) | B (mm) | HEX 1 (mm) | HEX 2 (mm) | Ø 1 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |
|-------|--------|--------|------------|------------|----------|--------|---------|---------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66551 | 6,5    | 1,2    | 6          |            | 35       | 235    | 125     | 110     |                                                                                      |                                                                                       |
| 66552 | 8      |        |            | 11         | 39       | 270    | 150     | 120     | 6                                                                                    | •                                                                                     |
| 66553 | 10     | 1,6    | 8          |            |          | 295    | 175     |         |                                                                                      |                                                                                       |





#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Hexagonal / Hexagonal / Hexagonale



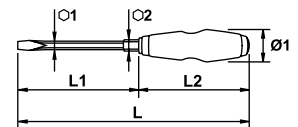
### INCH

| COD.  | A (inch) | B (inch) | HEX 1 (mm) | HEX 2 (mm) | Ø 1 (mm) | L (mm) | L1 (inch) | L2 (mm) |  |  |
|-------|----------|----------|------------|------------|----------|--------|-----------|---------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 55405 | 5/16     | 0,046    | 8          | 11         | 39       | 270    | 6         | 120     | 6                                                                                    | •                                                                                     |
| 55406 | 25/64    | 0,063    |            |            |          | 295    | 7         |         |                                                                                      |                                                                                       |






#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Hexagonal / Hexagonal / Hexagonale



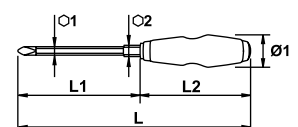
### PHILLIPS®\*

| COD.  |  | HEX 1 (mm) | HEX 2 (mm) | Ø 1 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |
|-------|-------------------------------------------------------------------------------------|------------|------------|----------|--------|---------|---------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66559 | PH-2                                                                                | 6          |            | 35       | 235    | 125     | 110     |                                                                                      |                                                                                       |
| 66560 | PH-3                                                                                | 8          | 11         | 39       | 270    | 150     | 120     | 6                                                                                    | •                                                                                     |






#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Hexagonal / Hexagonal / Hexagonale



\* Para tornillos PHILLIPS® (Marca registrada por Phillips Screw Company) / \*For screws PHILLIPS® (Phillips Screw Company registered trademark) / \*Pour vis PHILLIPS® (Marque enregistrée par Phillips Screw Company)

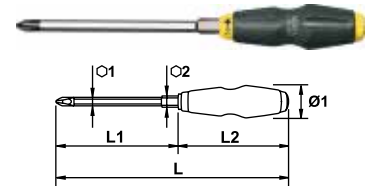
**EGA**
**POZIDRIV®\***




| COD.  |  | HEX 1 (mm) | HEX 2 (mm) | Ø 1 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |
|-------|-----------------------------------------------------------------------------------|------------|------------|----------|--------|---------|---------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66565 | PZ-2                                                                              | 6          |            | 35       | 235    | 125     | 110     | 6                                                                                 | •                                                                                   |
| 66566 | PZ-3                                                                              | 8          | 11         | 39       | 270    | 150     | 120     | 6                                                                                 | •                                                                                   |

 | DIN ISO 8764

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**



Hexagonal / Hexagonal / Hexagonale


**ROTORK**
**MECÁNICO / SLOTTED / MECANICIEN / FÜR SCHLITZSCHRAUBEN / PER MECCANICI / MECÂNICO / ПЛОСКАЯ**
**MM**

| COD.  | A (mm) | B (mm) | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |  |
|-------|--------|--------|----------|----------|--------|---------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66874 | 3      | 0,5    | 3        |          | 155    | 80      | 75      | 16                                                                                |                                                                                   | •                                                                                   |
| 66875 | 4      | 0,8    | 4        | 22       | 175    | 100     |         |                                                                                   |                                                                                   | •                                                                                   |
| 66876 |        |        |          |          | 205    |         |         |                                                                                   |                                                                                   |                                                                                     |
| 66877 | 5,5    | 1      | 5        |          |        |         |         |                                                                                   |                                                                                   |                                                                                     |
| 66878 |        |        |          | 31       | 230    | 125     | 105     |                                                                                   |                                                                                   |                                                                                     |
| 66879 | 6,5    |        | 6        |          | 255    | 150     |         | 8                                                                                 |                                                                                   | •                                                                                   |
| 66880 |        | 1,2    |          |          | 268    |         |         |                                                                                   |                                                                                   |                                                                                     |
| 66881 | 8      |        | 7        |          |        |         |         |                                                                                   |                                                                                   |                                                                                     |
| 66882 | 10     | 1,6    | 8        | 35       | 318    | 200     | 118     |                                                                                   |                                                                                   |                                                                                     |
| 67102 | 12     | 2      |          |          |        |         |         | 6                                                                                 |                                                                                   |                                                                                     |
| 67103 | 14     | 2,5    | 10       |          | 365    | 250     | 115     |                                                                                   |                                                                                   |                                                                                     |



 | DIN ISO 2380

**INCH**

| COD.  | A (inch) | B (inch) | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (inch) | L2 (mm) |  |  |
|-------|----------|----------|----------|----------|--------|-----------|---------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 55409 | 5/32     | 0,032    | 4        | 22       | 175    | 4         | 75      | 16                                                                                  |                                                                                       |
| 55410 |          |          |          |          | 205    |           |         |                                                                                     |                                                                                       |
| 55411 | 7/32     | 0,04     | 5        | 31       | 230    | 5         | 105     | 8                                                                                   |                                                                                       |
| 55414 |          |          |          |          | 268    | 6         |         |                                                                                     |                                                                                       |
| 55415 | 5/16     | 0,046    | 7        |          |        |           |         |                                                                                     |                                                                                       |
| 55416 | 25/64    | 0,063    | 8        | 35       | 318    | 8         | 118     |                                                                                     |                                                                                       |
| 55417 | 15/32    | 0,080    | 10       |          | 365    | 10        | 115     | 6                                                                                   |                                                                                       |

 | DIN ISO 2380

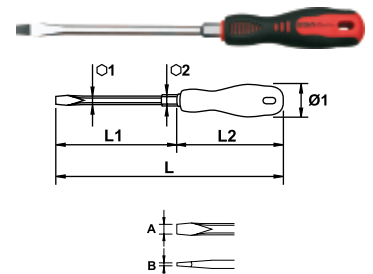
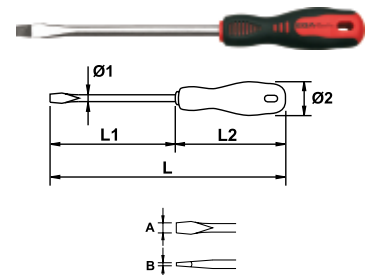
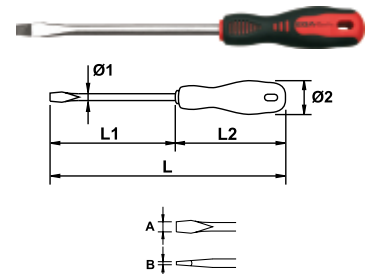
**MM**

| COD.  | A (mm) | B (mm) | HEX 1 (mm) | HEX 2 (mm) | Ø 1 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |
|-------|--------|--------|------------|------------|----------|--------|---------|---------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 67104 | 4      | 0,8    | 4          |            | 22       | 175    | 100     | 75      | 16                                                                                   |                                                                                       |
| 67105 | 5,5    | 1      | 5          |            | 31       | 230    | 125     | 105     | 8                                                                                    |                                                                                       |
| 66883 | 6,5    |        | 6          | 11         |          | 240    |         |         |                                                                                      |                                                                                       |
| 66884 | 8      | 1,2    |            |            |          | 265    | 150     |         |                                                                                      |                                                                                       |
| 66885 | 10     | 1,6    | 8          |            | 35       | 315    | 200     | 115     | 6                                                                                    |                                                                                       |
| 67106 | 12     | 2      |            |            |          |        |         |         |                                                                                      |                                                                                       |
| 67107 | 14     | 2,5    | 10         |            |          | 365    | 250     |         |                                                                                      |                                                                                       |

 | DIN ISO 2380

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Hexagonal / Hexagonal / Hexagonale



## EGA

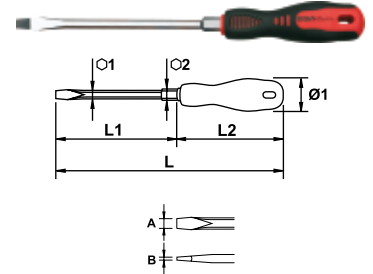
### INCH

| COD.  | A (inch) | B (inch) | HEX 1 (mm) | HEX 2 (mm) | Ø 1 (mm) | L (mm) | L1 (inch) | L2 (mm) |    |  |
|-------|----------|----------|------------|------------|----------|--------|-----------|---------|----|--|
| 55420 | 5/32     | 0,032    | 4          | -          | 22       | 175    | 4         | 75      | 16 |  |
| 55421 | 7/32     | 0,04     | 5          | -          | 31       | 230    | 5         | 105     | 8  |  |
| 55423 | 5/16     | 0,046    | 8          | 11         | 35       | 268    | 6         |         | •  |  |
| 55424 | 25/64    | 0,063    |            |            |          | 318    | 8         | 115     | 6  |  |
| 55425 | 15/32    | 0,08     | 10         | -          |          | 368    | 10        |         |    |  |

**DIN ISO 2380**

### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Hexagonal / Hexagonal / Hexagonale

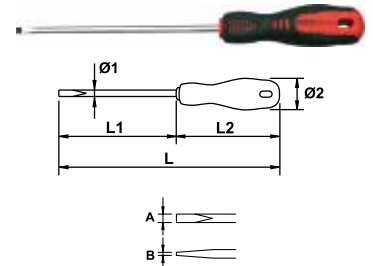


### ELECTRICISTA / ELECTRICIAN / ELECTRICIEN / ELEKTRIK / PER ELETTRICISTI / ELETRICISTA / ЭЛЕКТРИЧЕСКАЯ

### MM

| COD.  | A (mm) | B (mm) | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |  |   |
|-------|--------|--------|----------|----------|--------|---------|---------|----|--|---|
| 67149 | 2,5    | 0,4    | 2,5      |          | 135    | 60      |         |    |  | • |
| 66886 | 3      | 0,5    | 3        | 22       | 175    | 100     | 75      | 16 |  | • |
| 66887 | 3      | 0,5    | 3        | 22       | 175    | 100     | 75      | 16 |  | • |
| 66888 | 4      | 0,8    | 4        |          | 200    | 125     |         |    |  | • |
| 66890 | 5      | 1      | 5        |          | 255    | 150     |         |    |  | • |
| 66891 | 5      | 1      | 5        | 31       | 305    | 200     | 105     | 8  |  | • |
| 66892 | 6      | 1,2    | 6        |          | 255    | 150     |         |    |  | • |
| 67108 | 8      |        | 8        |          | 290    | 175     |         |    |  | • |
| 67109 | 10     | 1,6    | 10       | 35       | 315    | 200     | 115     | 6  |  | • |

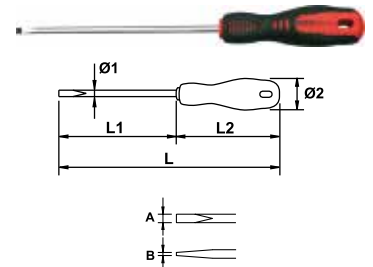
**DIN ISO 2380**



### INCH

| COD.  | A (inch) | B (inch) | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (inch) | L2 (mm) |    |  |   |
|-------|----------|----------|----------|----------|--------|-----------|---------|----|--|---|
| 55428 | 3/32     | 0,016    | 2,5      |          | 135    | 2         |         |    |  | • |
| 55431 | 5/32     | 0,032    | 4        | 22       | 200    | 5         | 75      | 16 |  | • |
| 55432 | 5/32     | 0,032    | 4        |          | 225    | 6         |         |    |  | • |
| 55433 | 3/16     | 0,04     | 5        | 31       | 255    | 8         | 105     | 8  |  | • |
| 55434 | 3/16     | 0,04     | 5        | 31       | 305    | 8         | 105     | 8  |  | • |
| 55436 | 5/16     | 0,046    | 8        | 35       | 290    | 7         | 115     | 6  |  | • |
| 55437 | 25/64    | 0,063    | 10       | 35       | 315    | 8         |         |    |  | • |

**DIN ISO 2380**

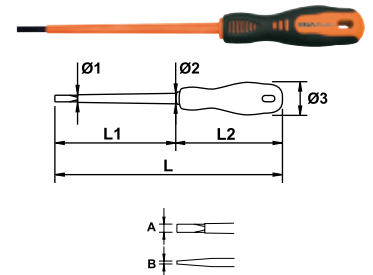


### 1000V

### MM

| COD.  | A (mm) | B (mm) | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |     |    |   |
|-------|--------|--------|----------|----------|----------|--------|---------|---------|-----|----|---|
| 76730 | -      | 2,5    | 0,4      | 4,4      | 6,1      | 22     | 135     | 60      | 75  | 16 | • |
| 76731 | -      | 3      | 0,5      | 4,4      | 6,1      | 22     | 175     | 100     | 75  | 16 | • |
| 76651 | -      | 3      | 0,5      | 4,4      | 6,1      | 22     | 175     | 100     | 75  | 16 | • |
| 76652 | -      | 4      | 0,8      | 5,4      | 7        |        | 230     | 125     |     |    | • |
| 76653 |        | 5,5    | 1        | 6,4      | 8,8      | 31     | 255     | 150     | 105 | 8  | • |
| 76654 | -      | 6,5    | 1,2      | 7,8      | 11       |        | 290     | 175     |     |    | • |
| 76732 | -      | 8      | 1,2      | 9,4      | 12,3     |        | 290     | 175     |     |    | • |
| 76733 | -      | 10     | 1,6      | 11,4     | 15       | 35     | 315     | 200     | 115 | 6  | • |
| 76125 | -      | 12     | 2        | 13,5     | 16,5     |        | 318     | 200     | 118 |    | • |

**1000V** | **DIN ISO 2380** | **IEC 60900**

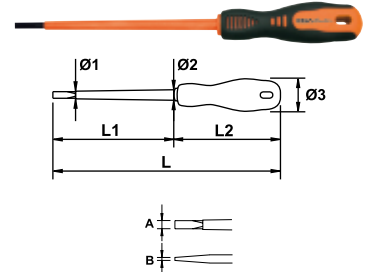


## EGA

### INCH

| COD.  | A (inch) | B (inch) | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (inch) | L2 (mm) |    |  |  |
|-------|----------|----------|----------|----------|----------|--------|-----------|---------|----|--|--|
| 75172 | 3/32     | 0,016    | 4,4      | 6,1      | 22       | 135    | 2         | 75      | 16 |  |  |
| 75175 | 5/32     | 0,032    | 5,4      | 7        |          | 230    | 5         |         |    |  |  |
| 75176 | 3/16     | 0,04     | 6,4      | 8,8      | 31       | 255    | 6         | 105     | 8  |  |  |
| 75177 | 1/4      |          | 7,8      | 11       |          |        |           |         |    |  |  |
| 75178 | 5/16     | 0,046    | 9,4      | 12,3     |          | 290    | 7         |         |    |  |  |
| 75179 | 25/64    | 0,063    | 11,4     | 15       | 35       | 315    | 8         | 115     | 6  |  |  |

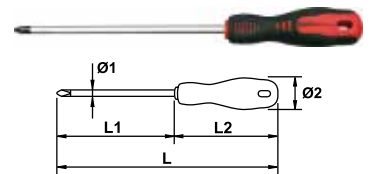
1000V | DIN ISO 2380 | IEC 60900



### PHILLIPS®\*

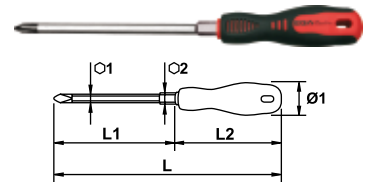
| COD.  |      | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |  |   |
|-------|------|----------|----------|--------|---------|---------|----|--|---|
| 66897 | PH-0 | 3        | 22       | 135    | 60      | 75      | 16 |  |   |
| 66898 | PH-1 | 4        |          | 205    | 100     |         |    |  | - |
| 66899 | PH-2 | 5        | 31       | 230    | 125     | 105     | 8  |  |   |
| 66900 | PH-3 | 6        |          | 265    | 150     |         |    |  |   |
| 67131 | PH-4 | 10       | 35       | 315    | 200     | 115     | 6  |  | - |

| DIN ISO 8764



| COD.  |      | HEX 1 (mm) | HEX 2 (mm) | Ø 1 (mm) | L (mm) | L1 (mm) | L2 (mm) |   |  |   |
|-------|------|------------|------------|----------|--------|---------|---------|---|--|---|
| 67053 | PH-1 | 5          | -          | 31       | 205    | 100     | 105     | 8 |  |   |
| 66901 | PH-2 | 6          |            |          | 243    | 125     |         |   |  | - |
| 66902 | PH-3 |            | 11         | 35       | 268    | 150     | 118     | 6 |  | - |
| 67054 | PH-4 |            |            |          | 318    | 200     |         |   |  | - |

| DIN ISO 8764



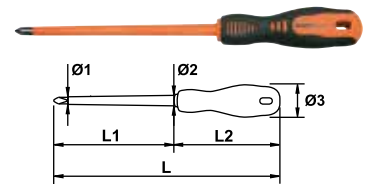
### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Hexagonal / Hexagonal / Hexagonale

### 1000V

| COD.  |  |      | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |  |   |
|-------|--|------|----------|----------|----------|--------|---------|---------|----|--|---|
| 76655 |  | PH-0 | 4,4      | 5        | 22       | 135    | 60      | 75      | 16 |  |   |
| 76656 |  | PH-1 | 6,4      | 8        |          | 205    | 100     |         |    |  |   |
| 76657 |  | PH-2 | 7,4      | 9,6      | 31       | 230    | 125     | 105     | 8  |  |   |
| 76658 |  | PH-3 | 9,4      | 12,3     | 35       | 268    | 150     | 118     | 6  |  | - |
| 76735 |  | PH-4 | 9,4      | 12,3     | 35       | 318    | 200     | 118     | 6  |  | - |

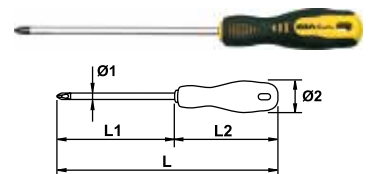
1000V | DIN ISO 8764 | IEC 60900



### POZIDRIV®\*

| COD.  |      | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |  |   |
|-------|------|----------|----------|--------|---------|---------|----|--|---|
| 66907 | PZ-0 | 3        | 22       | 135    | 60      | 75      | 16 |  |   |
| 66908 | PZ-1 | 5        |          | 205    | 100     |         |    |  |   |
| 66909 | PZ-2 | 6        | 31       | 230    | 125     | 105     | 8  |  |   |
| 66910 | PZ-3 | 8        |          | 268    | 150     |         |    |  | - |
| 67064 | PZ-4 | 10       | 35       | 318    | 200     | 118     | 6  |  | - |

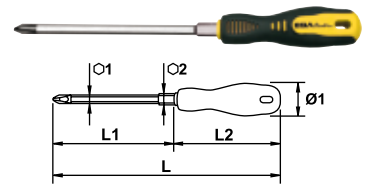
| DIN ISO 8764



\*Para tornillos PHILLIPS® (Marca registrada por Phillips Screw Company) / \*For screws PHILLIPS® (Phillips Screw Company registered trademark) / \*Pour vis PHILLIPS® (Marque enregistrée par Phillips Screw Company)  
\*Para tornillos POZIDRIV® (Marca registrada por European Ind. Serv. Ltd.) / \*For screws POZIDRIV® (European Ind. Serv. Ltd. registered trademark) / \*Pour vis POZIDRIV® (Marque enregistrée par European Ind. Serv. Ltd.)

## EGA

| COD.  |      | HEX 1 (mm) | HEX 2 (mm) | Ø 1 (mm) | L (mm) | L1 (mm) | L2 (mm) |   |   |   |
|-------|------|------------|------------|----------|--------|---------|---------|---|---|---|
| 67167 | PZ-1 | 5          | -          |          | 215    | 100     |         | 8 |   | ● |
| 66911 | PZ-2 | 6          |            | 35       | 240    | 125     | 115     |   | ● | ● |
| 66912 | PZ-3 |            | 11         |          | 265    | 150     |         | 6 |   |   |
| 67168 | PZ-4 | 8          |            |          | 315    | 200     |         |   |   | - |



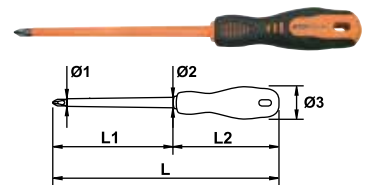
| DIN ISO 8764

### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Hexagonal / Hexagonal / Hexagonale

### 1000V

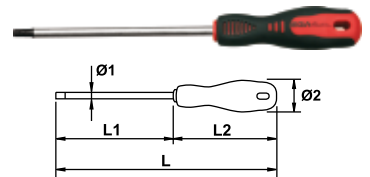
| COD.  |   |      | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |   |
|-------|---|------|----------|----------|----------|--------|---------|---------|----|---|
| 76659 | - | PZ-0 | 4,4      | 5        | 22       | 135    | 60      | 75      | 16 |   |
| 76660 |   | PZ-1 | 6,4      | 8        | 31       | 205    | 100     | 105     | 8  | ● |
| 76661 |   | PZ-2 | 7,4      | 9,6      | 35       | 230    | 125     | 118     | 6  |   |
| 76662 |   | PZ-3 | 9,4      | 12,3     | 35       | 268    | 150     |         |    |   |
| 76736 |   | PZ-4 | 12,5     |          | 35       | 318    | 200     |         |    |   |



| DIN ISO 8764 | IEC 60900

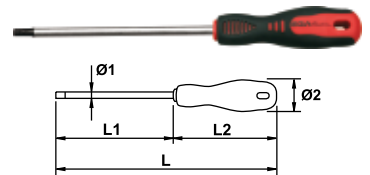
### TORX®\*

| COD.  |      | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |   |   |
|-------|------|----------|----------|--------|---------|---------|----|---|---|
| 66917 | T-6  |          |          |        |         |         |    |   | ● |
| 66918 | T-7  | 3        |          | 125    | 50      |         |    |   | ● |
| 66919 | T-8  |          |          |        |         |         |    |   |   |
| 66920 | T-9  |          | 22       |        |         | 75      | 16 |   |   |
| 66921 | T-10 | 4        |          | 150    | 75      |         |    |   | ● |
| 66922 | T-15 |          |          |        |         |         |    |   | ● |
| 66923 | T-20 | 5        |          | 175    | 100     |         |    | ● |   |
| 66924 | T-25 |          |          | 205    |         |         |    |   |   |
| 66925 | T-27 | 6        | 31       | 220    | 115     | 105     | 8  |   | ● |
| 66926 | T-30 | 7        |          | 230    | 125     |         |    |   |   |
| 66927 | T-40 |          |          | 240    |         |         |    |   |   |
| 67183 | T-45 | 8        | 35       | 265    | 150     | 115     | 6  |   |   |
| 67184 | T-50 | 10       |          | 290    | 175     |         |    |   |   |



### TAMPER TORX

| COD.  |       | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |   |
|-------|-------|----------|----------|--------|---------|---------|----|---|
| 65965 | TT-6  |          |          |        |         |         |    |   |
| 65966 | TT-7  | 3        |          | 125    | 50      |         |    |   |
| 65967 | TT-8  |          |          |        |         |         |    |   |
| 65968 | TT-9  |          | 22       |        |         | 75      | 16 |   |
| 65969 | TT-10 | 4        |          | 150    | 75      |         |    |   |
| 65972 | TT-15 |          |          |        |         |         |    |   |
| 65973 | TT-20 | 5        |          | 175    | 100     |         |    | ● |
| 65974 | TT-25 |          |          | 205    |         |         |    |   |
| 65994 | TT-27 | 6        | 31       | 220    | 115     | 105     | 8  |   |
| 65995 | TT-30 | 7        |          | 230    | 125     |         |    |   |
| 65996 | TT-40 |          |          | 240    |         |         |    |   |
| 65997 | TT-45 | 8        | 35       | 265    | 150     | 115     | 6  |   |
| 65998 | TT-50 | 10       |          | 290    | 175     |         |    |   |










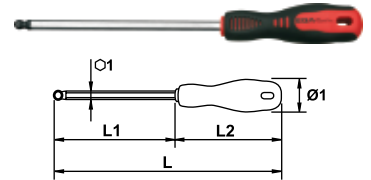
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## EGA





### ■ PUNTA ESFERA / BALL TIP / TÊTE SPHÉRIQUE / KUGELKOPF / TESTA SFERICA / PONTA ESFERICA / С ШАРОВОЙ ГОЛОВКОЙ

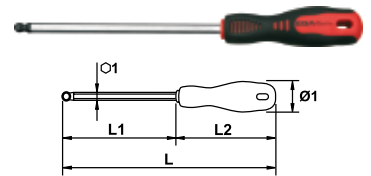
#### ■ MM

| COD.  | HEX 1 (mm) | Ø 1 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |  |
|-------|------------|----------|--------|---------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66928 | 2,5        |          | 150    | 75      | 75      | 16                                                                                |                                                                                   |  |
| 66929 | 3          | 22       | 175    | 100     | 75      | 8                                                                                 |                                                                                   |  |
| 66930 | 4          |          | 205    | 125     | 80      | 6                                                                                 |                                                                                   |  |
| 66931 | 5          | 31       | 230    | 150     | 80      | 6                                                                                 |  |                                                                                     |
| 66932 | 6          |          | 265    | 175     | 90      | 6                                                                                 |                                                                                   |                                                                                     |
| 66933 | 8          | 35       | 265    | 150     | 115     | 6                                                                                 |                                                                                   |                                                                                     |
| 67090 | 10         |          |        |         |         |                                                                                   |                                                                                   |                                                                                     |











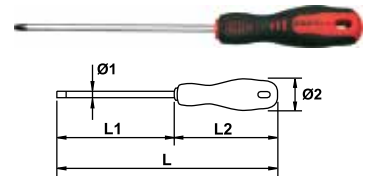
#### ■ INCH

| COD.  | HEX 1 (inch) | Ø 1 (mm) | L (mm) | L1 (inch) | L2 (mm) |  |  |  |
|-------|--------------|----------|--------|-----------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 55441 | 5/32         | 22       | 175    | 4         | 75      | 16                                                                                |                                                                                   |                                                                                     |
| 55442 | 3/16         | 31       | 205    | 4         | 105     | 8                                                                                 |                                                                                   |                                                                                     |
| 55444 | 5/16         | 35       | 268    | 6         | 115     | 6                                                                                 |  |                                                                                     |
| 55445 | 25/64        |          |        |           |         |                                                                                   |                                                                                   |                                                                                     |



#### ■ ROBERTSON

| COD.  |  |  | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------|----------|--------|---------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66934 | 1                                                                                   | 2,4                                                                                 | 5        | 22       | 175    | 100     | 75      | 16                                                                                  |                                                                                     |                                                                                       |
| 66935 | 2                                                                                   | 2,8                                                                                 | 5        | 31       | 230    | 125     | 105     | 8                                                                                   |  |  |
| 66936 | 3                                                                                   | 3,4                                                                                 | 6        | 31       | 255    | 150     | 105     | 6                                                                                   |                                                                                     |  |

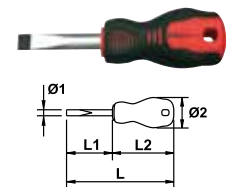


### ■ CARROCERO / STUBBY / TOM POUCE / SCHRAUBENDREHER, KURZE FORM / CACCIAVITI NANI / COTOS / КОРОТКАЯ

### ■ ELECTRICISTA / ELECTRICIAN / ELECTRICIEN / ELEKTRIK / PER ELETTRICISTI / ELETRICISTA / ЭЛЕКТРИЧЕСКАЯ

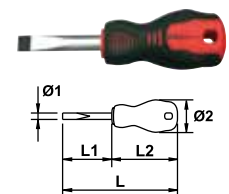
#### ■ MM

| COD.  | A (mm) | B (mm) | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |
|-------|--------|--------|----------|----------|--------|---------|---------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66937 | 5,5    | 1,2    | 5,5      | 31       | 85     | 25      | 60      | 20                                                                                  |  |






#### ■ INCH

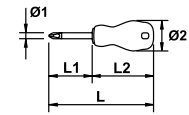
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|-------|----------|----------|----------|----------|--------|-----------|---------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 55447 | 7/32     | 0,046    | 5,5      | 31       | 85     | 1         | 60      | 20                                                                                  |  |






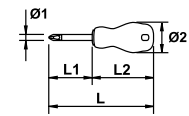




**EGA**
**PHILLIPS\*\***

| COD.  |  | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |
|-------|-----------------------------------------------------------------------------------|----------|----------|--------|---------|---------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 67190 | PH-1                                                                              | 5        | 31       | 85     | 25      | 60      | 20                                                                                | •                                                                                   |
| 66938 | PH-2                                                                              | 5,5      | 31       | 85     | 25      | 60      | 20                                                                                | •                                                                                   |


**DIN ISO 8764**

**POZIDRIV\*\***

| COD.  |  | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |
|-------|-----------------------------------------------------------------------------------|----------|----------|--------|---------|---------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 67191 | PZ-1                                                                              | 5        | 31       | 85     | 25      | 60      | 20                                                                                | •                                                                                   |
| 66939 | PZ-2                                                                              | 6        | 31       | 85     | 25      | 60      | 20                                                                                | •                                                                                   |


**DIN ISO 8764**

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| COD.  |  | Válido para / Valid for / Valable pour                                                                                                                                                                                                                                                                                                  |  |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66054 | 2-3                                                                               | 66420, 66421, 66422, 55352, 55354, 66438, 66456, 66474, 66475, 66476, 66477, 66478, 66488, 66489, 66490, 66491, 66501, 66502, 55364, 67149, 66886, 66887, 55428, 66897, 66907, 66917, 66918, 66919, 66928, 66929                                                                                                                        | •                                                                                   |
| 66052 | 4-5                                                                               | 66400, 66401, 66423, 66424, 66411, 66439, 66437, 66479, 66480, 66481, 66482, 76620, 76621, 76628, 76638, 76639, 76640, 76641, 76642, 66457, 66472, 66530, 66531, 66503, 66874, 66875, 66888, 66889, 66890, 66891, 76730, 76731, 76651, 66899, 66908, 67167, 76633, 66919, 66920, 66921, 66922, 66923, 66924, 66930, 66931, 66934, 66935 | •                                                                                   |
| 66053 | 5,5-6                                                                             | 66425, 66412, 55358, 55359, 75063, 75064, 76622, 66444, 66483, 66458, 66473, 66532, 66892, 76652, 67053, 76655                                                                                                                                                                                                                          | •                                                                                   |
| 66049 | * 5,5-6,15                                                                        | 66440, 66443, 76623, 76624, 76738, 76629, 76643, 76644, 66909, 66900, 66911, 66925, 66932, 66936, 76653, 76656, 76634                                                                                                                                                                                                                   | •                                                                                   |

\*: Válido para puntas de 50 mm de longitud / Suitable for 50 mm length bits / Valable pour les pointes de 50 mm de longueur



 Para trabajar con tornillos férricos  
 To work with ferrous screws  
 Pour travailler avec des vis ferriques

 Para trabajar con tornillos inox  
 To work with stainless steel screws  
 Pour travailler avec des vis Inox

 Válido para puntas de 50 mm de longitud  
 Suitable for 50 mm length bits  
 Valable pour les pointes de 50 mm de longueur

 Aguanta hasta 2 kg de peso  
 Supports up to 2 kg weight  
 Supporte jusqu'à un poids de 2 Kg

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**SET**

| COD.  | PCS.                                    |  |
|-------|-----------------------------------------|-------------------------------------------------------------------------------------|
| 66047 | 4                                       | 45                                                                                  |
| PCS.  | Composición / Composition / Composition | Descripción / Description / Description                                             |
| 4     | 66049, 66052, 66053, 66054              | Porta-tornillos magnetico / Magnetic screwholders / Porte-tournevis magnétique      |



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## EGA

### MICROTRONIC

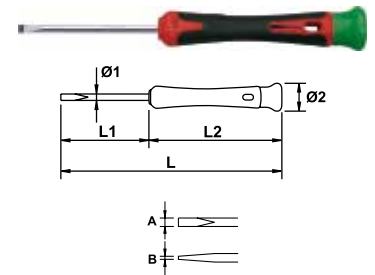


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#### MM

| COD.  | A (mm) | B (mm) | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |   |
|-------|--------|--------|----------|----------|--------|---------|---------|----|---|
| 66846 |        |        |          |          | 145    | 50      |         |    |   |
| 66847 | 2      | 0,4    | 3        |          |        |         |         |    |   |
| 66848 | 3      | 0,5    |          | 21       | 170    | 75      | 95      | 10 | • |
| 66849 | 4      | 0,8    | 4        |          |        |         |         |    |   |

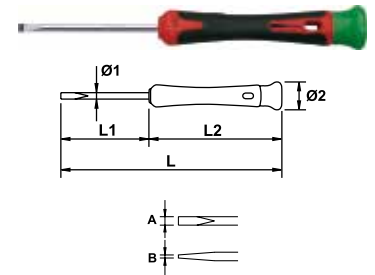
| DIN ISO 2380



#### INCH

| COD.  | A (inch) | B (inch) | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (inch) | L2 (mm) |    |   |
|-------|----------|----------|----------|----------|--------|-----------|---------|----|---|
| 55449 |          |          |          |          | 145    | 2         |         |    |   |
| 55450 | 5/64     | 0,016    | 3        |          |        |           |         |    |   |
| 55451 | 1/8      | 0,02     |          | 21       | 170    | 3         | 95      | 10 | • |
| 55452 | 5/32     | 0,03     | 4        |          |        |           |         |    |   |

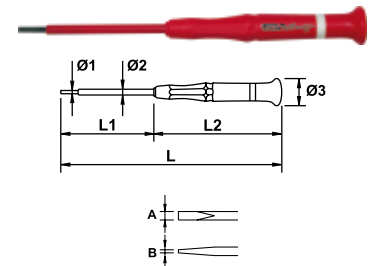
| DIN ISO 2380



#### 1000V

| COD.  | A (mm) | B (mm) | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |   |
|-------|--------|--------|----------|----------|----------|--------|---------|---------|----|---|
| 75156 | 1,5    | 0,23   | 1,5      | 3,1      |          | 140    | 40      |         |    |   |
| 75157 | 1,8    | 0,3    | 1,8      | 3,4      |          |        |         |         |    |   |
| 75158 | 2      | 0,4    | 2        | 3,6      | 19       | 160    | 60      | 100     | 10 | • |
| 75159 | 2,5    | 0,5    | 2,5      | 4,1      |          |        |         |         |    |   |
| 75201 | 3      | 0,5    | 3        | 4,6      |          | 175    | 75      |         |    |   |

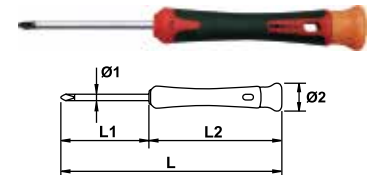
| 1000V | DIN ISO 2380 | IEC 60900



#### PHILLIPS®\*

| COD.  |       | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |   |
|-------|-------|----------|----------|--------|---------|---------|----|---|
| 66850 | PH-00 | 2        |          | 145    | 50      | 95      | 10 |   |
| 66851 | PH-0  | 3        | 21       |        |         |         |    | • |
| 66852 | PH-1  | 4        |          | 170    | 75      |         |    |   |

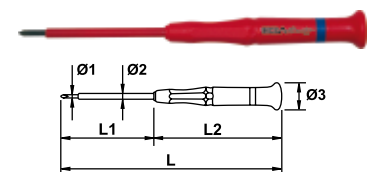
| DIN ISO 8764



#### 1000V




| COD.  |       | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |   |
|-------|-------|----------|----------|----------|--------|---------|---------|----|---|
| 75202 | PH-00 | 2,5      | 4,1      | 19       | 175    | 75      | 100     | 10 |   |
| 75203 | PH-0  | 3        | 4,6      |          |        |         |         |    | • |

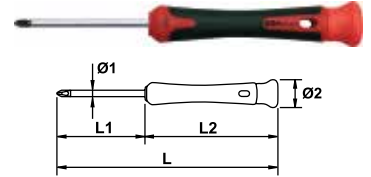
| 1000V | DIN ISO 8764 | IEC 60900






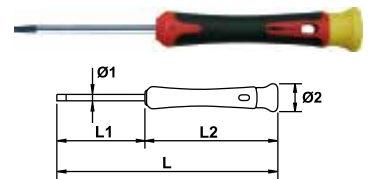
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**EGA**
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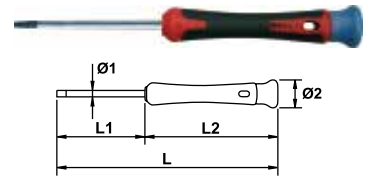
| COD.  |  | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |
|-------|-----------------------------------------------------------------------------------|----------|----------|--------|---------|---------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66853 | PZ-0                                                                              | 3        |          | 145    | 50      | 95      | 10                                                                                | •                                                                                   |
| 66854 | PZ-1                                                                              | 4        | 21       | 170    | 75      |         |                                                                                   |                                                                                     |





 DIN ISO 8764

**TORX®\***

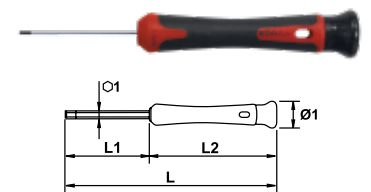
| COD.  |  | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |
|-------|-----------------------------------------------------------------------------------|----------|----------|--------|---------|---------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66855 | T-6                                                                               | 2        |          | 145    | 50      |         |                                                                                   |                                                                                     |
| 66856 | T-7                                                                               |          |          |        |         |         |                                                                                   |                                                                                     |
| 66857 | T-8                                                                               | 3        |          |        |         |         |                                                                                   |                                                                                     |
| 66858 | T-9                                                                               |          | 21       |        |         | 95      | 10                                                                                | •                                                                                   |
| 66859 | T-10                                                                              |          |          | 170    | 75      |         |                                                                                   |                                                                                     |
| 66860 | T-15                                                                              | 4        |          |        |         |         |                                                                                   |                                                                                     |
| 66861 | T-20                                                                              |          |          |        |         |         |                                                                                   |                                                                                     |





**TAMPER TORX**

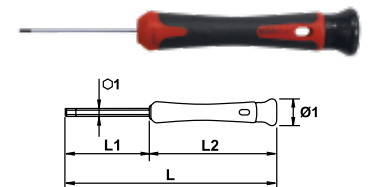
| COD.  |  | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |
|-------|------------------------------------------------------------------------------------|----------|----------|--------|---------|---------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 66866 | TT-6                                                                               | 2        |          | 145    | 50      |         |                                                                                    |                                                                                      |
| 66867 | TT-7                                                                               |          |          |        |         |         |                                                                                    |                                                                                      |
| 66868 | TT-8                                                                               | 3        |          |        |         |         |                                                                                    |                                                                                      |
| 66869 | TT-9                                                                               |          | 21       |        |         | 95      | 10                                                                                 | •                                                                                    |
| 66870 | TT-10                                                                              |          |          | 170    | 75      |         |                                                                                    |                                                                                      |
| 66871 | TT-15                                                                              | 4        |          |        |         |         |                                                                                    |                                                                                      |
| 66872 | TT-20                                                                              |          |          |        |         |         |                                                                                    |                                                                                      |


**HEXAGONAL / HEXAGONAL / HEXAGONALE / HEXAGONAL / HEXAGONAL / HEXAGONAL / ШЕСТИГРАННИК**
**MM**

| COD.  |  | Ø 1 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |
|-------|-------------------------------------------------------------------------------------|----------|--------|---------|---------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 57684 | 1,5                                                                                 | 21       | 145    | 50      | 95      | 10                                                                                  | •                                                                                     |
| 57685 | 2                                                                                   |          |        |         |         |                                                                                     |                                                                                       |


**INCH**

| COD.  |  | Ø 1 (mm) | L (mm) | L1 (inch) | L2 (mm) |  |  |
|-------|-------------------------------------------------------------------------------------|----------|--------|-----------|---------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 55458 | 1/16                                                                                | 21       | 145    | 2         | 95      | 10                                                                                  | •                                                                                     |
| 55453 | 5/64                                                                                |          |        |           |         |                                                                                     |                                                                                       |






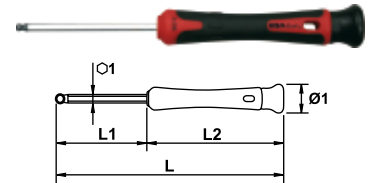
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## EGA




### HEXAGONAL PUNTA ESFERA / HEXAGONAL BALL POINT / HEXAGONALE AVEC EMBOUT SPHÉRIQUE / HEXAGONAL KUGELKOPF / HEXAGONAL TESTA ESFERICA / HEXAGONAL COM PUNTA ESFERICA / ШЕСТИГРАННИК С ШАРОВОЙ ГОЛОВКОЙ

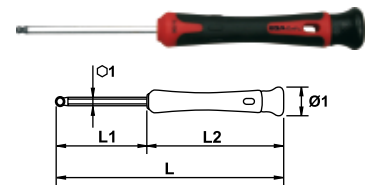
#### MM

| COD.  |  | Ø 1 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |
|-------|-----------------------------------------------------------------------------------|----------|--------|---------|---------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66864 | 2,5                                                                               | 21       | 145    | 50      | 95      | 10                                                                                | •                                                                                   |
| 66865 | 3                                                                                 |          | 155    | 60      |         |                                                                                   |                                                                                     |



#### INCH




| COD.  |  | Ø 1 (mm) | L (mm) | L1 (inch) | L2 (mm) |  |  |
|-------|-----------------------------------------------------------------------------------|----------|--------|-----------|---------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 55455 | 5/64                                                                              | 21       | 145    | 2         | 95      | 10                                                                                | •                                                                                   |
| 55457 | 1/8                                                                               |          | 155    |           |         |                                                                                   |                                                                                     |

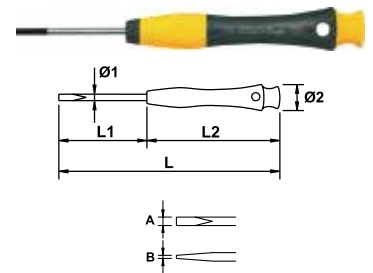


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#### ELECTRICISTA / ELECTRICIAN / ELECTRICIEN / ELEKTRIK / PER ELETTRONICA / ELETRICISTA / ЭЛЕКТРИЧЕСКАЯ

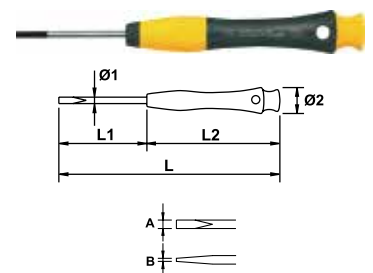
#### MM

| COD.  | A (mm) | B (mm) | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |  |
|-------|--------|--------|----------|----------|--------|---------|---------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 64740 | 1      | 0,2    |          |          | 140    | 40      |         | 14                                                                                  |                                                                                      |                                                                                       |
| 64741 | 1,5    | 0,3    | 2        |          |        |         |         | 16                                                                                  |                                                                                      |                                                                                       |
| 64742 | 2      |        |          |          |        |         |         | 17                                                                                  | 10                                                                                   |                                                                                       |
| 64743 | 2,5    | 0,4    | 2,5      | 16       |        |         | 100     | 19                                                                                  |                                                                                      |                                                                                       |
| 64744 | 3      | 0,5    | 3        |          | 160    | 60      |         | 21                                                                                  |                                                                                      | •                                                                                     |
| 64745 | 3,5    | 0,6    | 3,5      |          |        |         |         | 24                                                                                  |                                                                                      |                                                                                       |
| 64746 | 4      | 0,7    | 4        |          |        |         |         |                                                                                     |                                                                                      |                                                                                       |







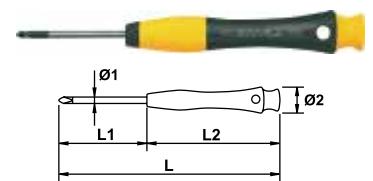
#### INCH

| COD.  | A (inch) | B (inch) | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (inch) | L2 (mm) |  |  |  |
|-------|----------|----------|----------|----------|--------|-----------|---------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 55460 |          | 1/16     |          |          | 140    |           |         | 14                                                                                  |                                                                                      |                                                                                       |
| 55461 | 5/64     | 5/64     | 2        |          |        |           |         | 16                                                                                  |                                                                                      |                                                                                       |
| 55464 | 9/64     | 9/64     | 3,5      | 16       | 160    | 2         | 100     | 21                                                                                  | 10                                                                                   |                                                                                       |
| 55465 | 5/32     | 5/32     | 4        |          |        |           |         | 24                                                                                  |                                                                                      | •                                                                                     |







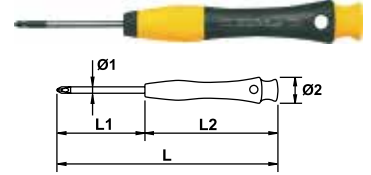
#### PHILLIPS®\*





| COD.  |  | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|----------|----------|--------|---------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 64747 | PH00                                                                                | 2,5      |          |        |         |         | 17                                                                                  |                                                                                     |                                                                                       |
| 64748 | PH0                                                                                 | 3,0      | 16       | 160    | 60      | 100     | 19                                                                                  | 10                                                                                  | •                                                                                     |
| 64749 | PH1                                                                                 | 4,0      |          |        |         |         | 24                                                                                  |                                                                                     |                                                                                       |

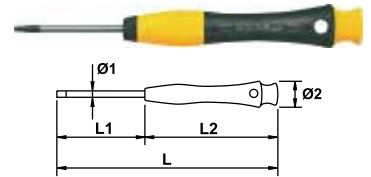






**EGA**
**POZIDRIV®\***

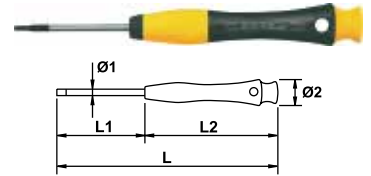
| COD.  |  | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|----------|----------|--------|---------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 64753 | PZ0                                                                               | 3,0      | 16       | 160    | 60      | 100     | 19                                                                                | 10                                                                                | •                                                                                   |
| 64754 | PZ1                                                                               | 4,0      | 16       | 160    | 60      | 100     | 24                                                                                | 10                                                                                | •                                                                                   |





**TORX®\***

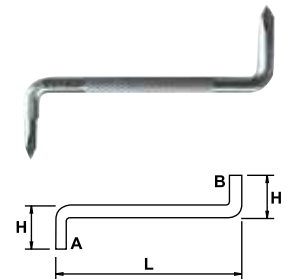
| COD.  |  | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|----------|----------|--------|---------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 64756 | T4                                                                                | 2,5      | 16       | 140    | 40      | 100     | 14                                                                                | 10                                                                                | •                                                                                   |
| 64757 | T5                                                                                | 2,5      | 16       | 140    | 40      | 100     | 14                                                                                | 10                                                                                | •                                                                                   |
| 64758 | T6                                                                                | 2,5      | 16       | 140    | 40      | 100     | 14                                                                                | 10                                                                                | •                                                                                   |


**TAMPER TORX**

| COD.  |  | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|----------|----------|--------|---------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 64762 | TT-7                                                                              | 2,5      | 16       | 140    | 40      | 100     | 15                                                                                | 10                                                                                | -                                                                                   |
| 64763 | TT-8                                                                              | 2,5      | 16       | 140    | 40      | 100     | 15                                                                                | 10                                                                                | -                                                                                   |
| 64764 | TT-9                                                                              | 3,0      | 16       | 160    | 60      | 100     | 19                                                                                | 10                                                                                | •                                                                                   |
| 64765 | TT-10                                                                             | 3,0      | 16       | 160    | 60      | 100     | 19                                                                                | 10                                                                                | •                                                                                   |


**DESTORNILLADOR ACODADO / OFFSET SCREWDRIVER / TOURNEVIS CONTRE COUDÉ / WINKELSCHRAUBENDREHER / CACCIAVITE A SQUADRA / CHAVE DE PARAFUSOS ANGULAR / КОЛЕНЧАТАЯ ОТВЕРТКА**

| COD.  | A   | B         | L (mm) | H (mm) |  |  |  |
|-------|-----|-----------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 57675 | PH1 | PH2       | 125    | 32     | 45                                                                                  |                                                                                     |                                                                                       |
| 57676 | PH3 | PH4       | 200    | 50     | 200                                                                                 |                                                                                     |                                                                                       |
| 57677 | PZ1 | PZ2       | 125    | 32     | 45                                                                                  |                                                                                     |                                                                                       |
| 57678 | PZ3 | PZ4       | 200    | 50     | 200                                                                                 |                                                                                     |                                                                                       |
| 57679 | 4   | 4 (90°)   | 100    | 25     | 25                                                                                  | 10                                                                                  | •                                                                                     |
| 57680 | 5,5 | 5,5 (90°) | 125    | 30     | 45                                                                                  |                                                                                     |                                                                                       |
| 57681 | 6   | 6 (90°)   | 125    | 30     | 45                                                                                  |                                                                                     |                                                                                       |
| 57682 | 8   | 8 (90°)   | 150    | 40     | 100                                                                                 |                                                                                     |                                                                                       |
| 57683 | 10  | 10 (90°)  | 175    | 50     | 200                                                                                 |                                                                                     |                                                                                       |



- \*Para tornillos POZIDRIV® (Marca registrada por European Ind. Serv. Ltd.) / \*For screws POZIDRIV® (European Ind. Serv. Ltd. registered trademark) / \*Pour vis POZIDRIV® (Marque enregistrée par European Ind. Serv. Ltd.)
- \*Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)

## EGA

### EXPOSITORES Y SETS / DISPLAYS AND SETS / PRESENTOIRS ET SETS / DISPLAY / ESPOSITORI / DISPLAY STAND / СТЕНДЫ

#### MASTERTORK

#### 1000V 4 PCS.



| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76676</b> | 4    | — | A |
| <b>76677</b> | 4    | — | B |

| PCS. | COD. PCS. | PH0 | PH1 | PH2 | PH3 | + |
|------|-----------|-----|-----|-----|-----|---|
| 1    | 76628     | PH0 |     |     |     |   |
|      | 76629     | PH1 |     |     |     | + |
|      | 76630     | PH2 |     |     |     |   |
|      | 76631     | PH3 |     |     |     |   |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76664</b> | 4    | — | A |
| <b>76665</b> | 4    | — | B |

| PCS. | COD. PCS. | PZ0 | PZ1 | PZ2 | PZ3 | + |
|------|-----------|-----|-----|-----|-----|---|
| 1    | 76633     | PZ0 |     |     |     |   |
|      | 76634     | PZ1 |     |     |     | + |
|      | 76635     | PZ2 |     |     |     |   |
|      | 76636     | PZ3 |     |     |     |   |

#### 5 PCS.



| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>69858</b> | 5    | — | A |
| <b>68487</b> | 5    | — | B |

| PCS. | COD. PCS. | 3 x 100 mm   | 4 x 125 mm | 5,5 x 150 mm | PH1 | PH2 | + | - |
|------|-----------|--------------|------------|--------------|-----|-----|---|---|
| 1    | 66422     | 3 x 100 mm   |            |              |     |     |   |   |
|      | 66423     | 4 x 125 mm   |            |              |     |     |   |   |
|      | 66425     | 5,5 x 150 mm |            |              |     |     |   |   |
|      | 66439     | PH1          |            |              |     |     | + |   |
|      | 66440     | PH2          |            |              |     |     |   | - |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>55507</b> | 5    | — | A |
| <b>55508</b> | 5    | — | B |

| PCS. | COD. PCS. | 2,5 x 75 mm  | 3 x 100 mm | 4 x 125 mm | 5,5 x 150 mm | 8 x 175 mm | + | - |
|------|-----------|--------------|------------|------------|--------------|------------|---|---|
| 1    | 66420     | 2,5 x 75 mm  |            |            |              |            |   |   |
|      | 66422     | 3 x 100 mm   |            |            |              |            |   |   |
|      | 66423     | 4 x 125 mm   |            |            |              |            |   |   |
|      | 66425     | 5,5 x 150 mm |            |            |              |            |   |   |
|      | 66427     | 8 x 175 mm   |            |            |              |            |   |   |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>55510</b> | 5    | — | A |
| <b>55511</b> | 5    | — | B |

| PCS. | COD. PCS. | PH0 | PH1 | PH2 | PH3 | PH4 | + |
|------|-----------|-----|-----|-----|-----|-----|---|
| 1    | 66438     | PH0 |     |     |     |     |   |
|      | 66439     | PH1 |     |     |     |     | + |
|      | 66440     | PH2 |     |     |     |     |   |
|      | 66441     | PH3 |     |     |     |     |   |
|      | 66442     | PH4 |     |     |     |     |   |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>55513</b> | 5    | — | A |
| <b>55514</b> | 5    | — | B |

| PCS. | COD. PCS. | PZ0 | PZ1 | PZ2 | PZ3 | PZ4 | + |
|------|-----------|-----|-----|-----|-----|-----|---|
| 1    | 66456     | PZ0 |     |     |     |     |   |
|      | 66457     | PZ1 |     |     |     |     | + |
|      | 66458     | PZ2 |     |     |     |     |   |
|      | 66459     | PZ3 |     |     |     |     |   |
|      | 66460     | PZ4 |     |     |     |     |   |

#### 1000V 5 PCS.



| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76667</b> | 5    | — | A |
| <b>76668</b> | 5    | — | B |

| PCS. | COD. PCS. | 3 x 100 mm   | 4 x 125 mm | 5,5 x 150 mm | 6,5 x 150 mm | 8 x 175 mm | + | - |
|------|-----------|--------------|------------|--------------|--------------|------------|---|---|
| 1    | 76621     | 3 x 100 mm   |            |              |              |            |   |   |
|      | 76622     | 4 x 125 mm   |            |              |              |            |   |   |
|      | 76624     | 5,5 x 150 mm |            |              |              |            |   |   |
|      | 76625     | 6,5 x 150 mm |            |              |              |            |   |   |
|      | 76626     | 8 x 175 mm   |            |              |              |            |   |   |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76910</b> | 5    | — | A |
| <b>76911</b> | 5    | — | B |

| PCS. | COD. PCS. | 3 x 100 mm   | 4 x 125 mm | 5,5 x 150 mm | PZ1 | PZ2 | + | - |
|------|-----------|--------------|------------|--------------|-----|-----|---|---|
| 1    | 76621     | 3 x 100 mm   |            |              |     |     |   |   |
|      | 76622     | 4 x 125 mm   |            |              |     |     |   |   |
|      | 76624     | 5,5 x 150 mm |            |              |     |     |   |   |
|      | 76634     | PZ1          |            |              |     |     | + |   |
|      | 76635     | PZ2          |            |              |     |     |   | - |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76916</b> | 5    | — | A |
| <b>76917</b> | 5    | — | B |

| PCS. | COD. PCS. | PH0 | PH1 | PH2 | PH3 | PH4 | + |
|------|-----------|-----|-----|-----|-----|-----|---|
| 1    | 76628     | PH0 |     |     |     |     |   |
|      | 76629     | PH1 |     |     |     |     | + |
|      | 76630     | PH2 |     |     |     |     |   |
|      | 76631     | PH3 |     |     |     |     |   |
|      | 76632     | PH4 |     |     |     |     |   |

#### 6 PCS.



| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>69859</b> | 6    | — | A |
| <b>68488</b> | 6    | — | B |

| PCS. | COD. PCS. | 2,5 x 75 mm  | 3 x 100 mm | 4 x 125 mm | 5,5 x 150 mm | PH1 | PH2 | + | - |
|------|-----------|--------------|------------|------------|--------------|-----|-----|---|---|
| 1    | 66420     | 2,5 x 75 mm  |            |            |              |     |     |   |   |
|      | 66421     | 3 x 100 mm   |            |            |              |     |     |   |   |
|      | 66423     | 4 x 125 mm   |            |            |              |     |     |   |   |
|      | 66425     | 5,5 x 150 mm |            |            |              |     |     |   |   |
|      | 66439     | PH1          |            |            |              |     |     | + |   |
|      | 66440     | PH2          |            |            |              |     |     |   | - |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>55501</b> | 6    | — | A |
| <b>55502</b> | 6    | — | B |

| PCS. | COD. PCS. | 3 x 80 mm    | 4 x 100 mm | 5,5 x 125 mm | 6,5 x 150 mm | 8 x 200 mm | 10 x 200 mm | + | - |
|------|-----------|--------------|------------|--------------|--------------|------------|-------------|---|---|
| 1    | 66400     | 3 x 80 mm    |            |              |              |            |             |   |   |
|      | 66401     | 4 x 100 mm   |            |              |              |            |             |   |   |
|      | 66403     | 5,5 x 125 mm |            |              |              |            |             |   |   |
|      | 66405     | 6,5 x 150 mm |            |              |              |            |             |   |   |
|      | 66407     | 8 x 200 mm   |            |              |              |            |             |   |   |
|      | 66408     | 10 x 200 mm  |            |              |              |            |             |   |   |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>55519</b> | 6    | — | A |
| <b>55520</b> | 6    | — | B |

| PCS. | COD. PCS. | 4 x 100 mm   | 5,5 x 100 mm | 6,5 x 125 mm | PZ1 | PZ2 | PZ3 | + | - |
|------|-----------|--------------|--------------|--------------|-----|-----|-----|---|---|
| 1    | 66401     | 4 x 100 mm   |              |              |     |     |     |   |   |
|      | 66402     | 5,5 x 100 mm |              |              |     |     |     |   |   |
|      | 66404     | 6,5 x 125 mm |              |              |     |     |     |   |   |
|      | 66457     | PZ1          |              |              |     |     |     |   |   |
|      | 66458     | PZ2          |              |              |     |     |     | + |   |
|      | 66459     | PZ3          |              |              |     |     |     |   | - |

**EGA**

| COD.         | PCS. |   |   |
|--------------|------|---|---|
| <b>55522</b> | 6    | — | A |
| <b>55523</b> |      |   | B |

| PCS. | COD.  | PCS.         |   |   |  |
|------|-------|--------------|---|---|--|
| 1    | 66401 | 4 x 100 mm   | ⊖ | ☐ |  |
|      | 66402 | 5,5 x 100 mm |   |   |  |
|      | 66405 | 6,5 x 150 mm |   |   |  |
|      | 66439 | PH1          | ⊕ | - |  |
|      | 66440 | PH2          |   |   |  |
|      | 66441 | PH3          |   |   |  |

**1000V 6 PCS.**


| COD.         | PCS. |   |   |
|--------------|------|---|---|
| <b>76670</b> | 6    | — | A |
| <b>76671</b> |      |   | B |

| PCS. | COD.  | PCS.         |   |   |
|------|-------|--------------|---|---|
| 1    | 76620 | 2,5 x 75 mm  | ⊖ | ☐ |
|      | 76621 | 3 x 100 mm   |   |   |
|      | 76622 | 4 x 125 mm   |   |   |
|      | 76624 | 5,5 x 150 mm | ⊕ | - |
|      | 76625 | 6,5 x 150 mm |   |   |
|      | 76626 | 8 x 175 mm   |   |   |

| COD.         | PCS. |   |   |
|--------------|------|---|---|
| <b>76901</b> | 6    | — | A |
| <b>76902</b> |      |   | B |

| PCS. | COD.  | PCS.         |   |   |
|------|-------|--------------|---|---|
| 1    | 76621 | 3 x 100 mm   | ⊖ | ☐ |
|      | 76622 | 4 x 125 mm   |   |   |
|      | 76624 | 5,5 x 150 mm |   |   |
|      | 76628 | PH0          | ⊕ | - |
|      | 76629 | PH1          |   |   |
|      | 76630 | PH2          |   |   |

| COD.         | PCS. |   |   |
|--------------|------|---|---|
| <b>76922</b> | 6    | — | A |
| <b>76923</b> |      |   | B |

| PCS. | COD.  | PCS.         |   |   |
|------|-------|--------------|---|---|
| 1    | 76620 | 2,5 x 75 mm  | ⊖ | ☐ |
|      | 76621 | 3 x 100 mm   |   |   |
|      | 76622 | 4 x 125 mm   |   |   |
|      | 76623 | 5,5 x 125 mm | ⊕ | - |
|      | 76629 | PH1          |   |   |
|      | 76630 | PH2          |   |   |

| COD.         | PCS. |   |   |
|--------------|------|---|---|
| <b>76928</b> | 6    | — | A |
| <b>76929</b> |      |   | B |

| PCS. | COD.  | PCS.         |   |   |
|------|-------|--------------|---|---|
| 1    | 76621 | 3 x 100 mm   | ⊖ | ☐ |
|      | 76622 | 4 x 125 mm   |   |   |
|      | 76625 | 6,5 x 150 mm |   |   |
|      | 76629 | PH1          | ⊕ | - |
|      | 76630 | PH2          |   |   |
|      | 76631 | PH3          |   |   |

| COD.         | PCS. |   |   |
|--------------|------|---|---|
| <b>76934</b> | 6    | — | A |
| <b>76935</b> |      |   | B |

| PCS. | COD.  | PCS.         |   |   |
|------|-------|--------------|---|---|
| 1    | 76621 | 3 x 100 mm   | ⊖ | ☐ |
|      | 76622 | 4 x 125 mm   |   |   |
|      | 76625 | 6,5 x 150 mm |   |   |
|      | 76633 | PZ0          | ⊕ | - |
|      | 76634 | PZ1          |   |   |
|      | 76635 | PZ2          |   |   |

| COD.         | PCS. |   |   |
|--------------|------|---|---|
| <b>76931</b> | 6    | — | A |
| <b>76932</b> |      |   | B |

| PCS. | COD.  | PCS. |   |  |
|------|-------|------|---|--|
| 1    | 76640 | T8   | ⊗ |  |
|      | 76641 | T9   |   |  |
|      | 76642 | T10  |   |  |
|      | 76643 | T15  |   |  |
|      | 76644 | T20  |   |  |
|      | 76645 | T25  |   |  |

| COD.         | PCS. |   |   |
|--------------|------|---|---|
| <b>76926</b> | 6    | — | B |

| PCS. | COD.  | PCS.  |   |  |
|------|-------|-------|---|--|
| 1    | 74701 | 6 mm  | ⊗ |  |
|      | 74702 | 7 mm  |   |  |
|      | 74703 | 8 mm  |   |  |
|      | 74704 | 9 mm  |   |  |
|      | 74705 | 10 mm |   |  |
|      | 74706 | 11 mm |   |  |
|      | 74708 | 13 mm |   |  |

**7 PCS.**


| COD.         | PCS. |   |   |
|--------------|------|---|---|
| <b>55525</b> | 7    | — | A |
| <b>55526</b> |      |   | B |

| PCS. | COD.  | PCS. |   |  |
|------|-------|------|---|--|
| 1    | 66474 | T6   | ⊗ |  |
|      | 66476 | T8   |   |  |
|      | 66478 | T10  |   |  |
|      | 66479 | T15  |   |  |
|      | 66480 | T20  |   |  |
|      | 66481 | T25  |   |  |
|      | 66482 | T30  |   |  |
|      | 66483 | T30  |   |  |

| COD.         | PCS. |   |   |
|--------------|------|---|---|
| <b>55528</b> | 7    | — | A |
| <b>55529</b> |      |   | B |

| PCS. | COD.  | PCS. |   |  |
|------|-------|------|---|--|
| 1    | 66478 | T10  | ⊗ |  |
|      | 66479 | T15  |   |  |
|      | 66480 | T20  |   |  |
|      | 66481 | T25  |   |  |
|      | 66482 | T27  |   |  |
|      | 66483 | T30  |   |  |
|      | 66484 | T40  |   |  |
|      | 66484 | T40  |   |  |

**1000V 7 PCS.**


| COD.         | PCS. |   |   |
|--------------|------|---|---|
| <b>76938</b> | 7    | — | B |

| PCS. | COD.  | PCS.   |   |  |
|------|-------|--------|---|--|
| 1    | 74699 | 5 mm   | ⊗ |  |
|      | 74700 | 5,5 mm |   |  |
|      | 74701 | 6 mm   |   |  |
|      | 74702 | 7 mm   |   |  |
|      | 74703 | 8 mm   |   |  |
|      | 74705 | 10 mm  |   |  |
|      | 74708 | 13 mm  |   |  |

## EGA

### 8 PCS.



| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>69860</b> | 8    | — | A |
| <b>68489</b> | 8    | — | B |

| PCS. | COD. PCS.          |  |  |
|------|--------------------|--|--|
|      | 66421 3 x 100 mm   |  |  |
|      | 66423 4 x 125 mm   |  |  |
|      | 66403 5,5 x 125 mm |  |  |
| 1    | 66405 6,5 x 150 mm |  |  |
|      | 66438 PH0          |  |  |
|      | 66439 PH1          |  |  |
|      | 66457 PZ1          |  |  |
|      | 66458 PZ2          |  |  |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>55504</b> | 8    | — | A |
| <b>55505</b> | 8    | — | B |

| PCS. | COD. PCS.          |  |  |
|------|--------------------|--|--|
|      | 66400 3 x 80 mm    |  |  |
|      | 66401 4 x 100 mm   |  |  |
|      | 66402 5,5 x 100 mm |  |  |
| 1    | 66403 5,5 x 125 mm |  |  |
|      | 66404 6,5 x 125 mm |  |  |
|      | 66406 8 x 150 mm   |  |  |
|      | 66407 8 x 200 mm   |  |  |
|      | 66408 10 x 200 mm  |  |  |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>55516</b> | 8    | — | A |
| <b>55517</b> | 8    | — | B |

| PCS. | COD. PCS.          |  |  |
|------|--------------------|--|--|
|      | 66400 3 x 80 mm    |  |  |
|      | 66401 4 x 100 mm   |  |  |
|      | 66403 5,5 x 125 mm |  |  |
| 1    | 66405 6,5 x 150 mm |  |  |
|      | 66438 PH0          |  |  |
|      | 66439 PH1          |  |  |
|      | 66440 PH2          |  |  |
|      | 66441 PH3          |  |  |

### 1000V 8 PCS.



| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76674</b> | 8    | — | B |

| PCS. | COD. PCS.          |  |  |
|------|--------------------|--|--|
|      | 76621 3 x 100 mm   |  |  |
|      | 76622 4 x 125 mm   |  |  |
|      | 76624 5,5 x 150 mm |  |  |
| 1    | 76625 6,5 x 150 mm |  |  |
|      | 76629 PH1          |  |  |
|      | 76630 PH2          |  |  |
|      | 76634 PZ1          |  |  |
|      | 76635 PZ2          |  |  |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76919</b> | 8    | — | A |
| <b>76920</b> | 8    | — | B |

| PCS. | COD. PCS.          |  |  |
|------|--------------------|--|--|
|      | 76620 2,5 x 75 mm  |  |  |
|      | 76622 4 x 125 mm   |  |  |
|      | 76623 5,5 x 125 mm |  |  |
| 1    | 76625 6,5 x 150 mm |  |  |
|      | 76628 PH0          |  |  |
|      | 76629 PH1          |  |  |
|      | 76630 PH2          |  |  |
|      | 76631 PH3          |  |  |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76940</b> | 8    | — | A |
| <b>76941</b> | 8    | — | B |

| PCS. | COD. PCS.          |  |  |
|------|--------------------|--|--|
|      | 76620 2,5 x 75 mm  |  |  |
|      | 76621 3 x 100 mm   |  |  |
|      | 76622 4 x 125 mm   |  |  |
| 1    | 76625 6,5 x 150 mm |  |  |
|      | 76628 PH0          |  |  |
|      | 76629 PH1          |  |  |
|      | 76630 PH2          |  |  |
|      | 76631 PH3          |  |  |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76907</b> | 8    | — | A |
| <b>76908</b> | 8    | — | B |

| PCS. | COD. PCS.          |  |  |
|------|--------------------|--|--|
|      | 76620 2,5 x 75 mm  |  |  |
|      | 76621 3 x 100 mm   |  |  |
|      | 76622 4 x 125 mm   |  |  |
| 1    | 76624 5,5 x 150 mm |  |  |
|      | 76625 6,5 x 150 mm |  |  |
|      | 76633 PZ0          |  |  |
|      | 76634 PZ1          |  |  |
|      | 76635 PZ2          |  |  |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76904</b> | 8    | — | A |
| <b>76905</b> | 8    | — | B |

| PCS. | COD. PCS.          |  |  |
|------|--------------------|--|--|
|      | 76621 3 x 100 mm   |  |  |
|      | 76622 4 x 125 mm   |  |  |
|      | 76624 5,5 x 150 mm |  |  |
| 1    | 76625 6,5 x 150 mm |  |  |
|      | 76629 PH1          |  |  |
|      | 76630 PH2          |  |  |
|      | 76634 PZ1          |  |  |
|      | 76635 PZ2          |  |  |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76913</b> | 8    | — | A |
| <b>76914</b> | 8    | — | B |

| PCS. | COD. PCS. |  |  |
|------|-----------|--|--|
|      | 76628 PH0 |  |  |
|      | 76629 PH1 |  |  |
|      | 76630 PH2 |  |  |
| 1    | 76631 PH3 |  |  |
|      | 76633 PZ0 |  |  |
|      | 76634 PZ1 |  |  |
|      | 76635 PZ2 |  |  |
|      | 76636 PZ3 |  |  |



# 05

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## EGA

### 9 PCS.



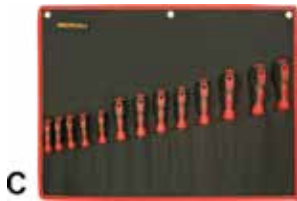
| COD.         | PCS. |   |
|--------------|------|---|
| <b>55992</b> | 9    | C |

| PCS. | COD. PCS. |              |
|------|-----------|--------------|
|      | 55330     | 1/8" x 3"    |
|      | 55331     | 5/32" x 4"   |
|      | 55332     | 7/32" x 4"   |
|      | 55334     | 1/4" x 5"    |
| 1    | 55336     | 5/16" x 6"   |
|      | 55338     | 3/8" x 8"    |
|      | 55339     | 25/64" x 8"  |
|      | 55340     | 15/32" x 10" |
|      | 55341     | 1/2" x 10"   |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>56029</b> | 9    | C |

| PCS. | COD. PCS. |        |
|------|-----------|--------|
|      | 55373     | 5/32"  |
|      | 55374     | 3/16"  |
|      | 55375     | 7/32"  |
|      | 55376     | 1/4"   |
| 1    | 55378     | 5/16"  |
|      | 55379     | 11/32" |
|      | 55380     | 25/64" |
|      | 55382     | 15/32" |
|      | 55383     | 1/2"   |

### 10 PCS.



| COD.         | PCS. |   |
|--------------|------|---|
| <b>55991</b> | 10   | C |

| PCS. | COD. PCS. |              |
|------|-----------|--------------|
|      | 66400     | 3 x 80 mm    |
|      | 66401     | 4 x 100 mm   |
|      | 66402     | 5,5 x 100 mm |
|      | 66404     | 6,5 x 125 mm |
| 1    | 66406     | 8 x 150 mm   |
|      | 66407     | 8 x 200 mm   |
|      | 66408     | 10 x 200 mm  |
|      | 66409     | 12 x 250 mm  |
|      | 66449     | 13 x 250 mm  |
|      | 66410     | 14 x 250 mm  |

### 1000V 10 PCS.



| COD.         | PCS. |   |
|--------------|------|---|
| <b>79468</b> | 10   | C |

| PCS. | COD. PCS. |        |
|------|-----------|--------|
|      | 75132     | 5/32"  |
|      | 74984     | 3/16"  |
|      | 75133     | 7/32"  |
|      | 74985     | 1/4"   |
| 1    | 74986     | 5/16"  |
|      | 74987     | 3/8"   |
|      | 75136     | 25/64" |
|      | 74988     | 7/16"  |
|      | 75138     | 15/32" |
|      | 74989     | 1/2"   |

### 12 PCS.



| COD.         | PCS. |   |
|--------------|------|---|
| <b>55996</b> | 12   | C |

| PCS. | COD. PCS. |      |
|------|-----------|------|
|      | 66488     | TT7  |
|      | 66489     | TT8  |
|      | 66490     | TT9  |
|      | 66491     | TT10 |
|      | 66492     | TT15 |
| 1    | 66493     | TT20 |
|      | 66494     | TT25 |
|      | 66495     | TT27 |
|      | 66496     | TT30 |
|      | 66497     | TT40 |
|      | 66498     | TT45 |
|      | 66499     | TT50 |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>55997</b> | 12   | C |

| PCS. | COD. PCS. |        |
|------|-----------|--------|
|      | 66510     | 4 mm   |
|      | 66511     | 5 mm   |
|      | 66512     | 5,5 mm |
|      | 66513     | 6 mm   |
|      | 66514     | 7 mm   |
| 1    | 66515     | 8 mm   |
|      | 66516     | 9 mm   |
|      | 66517     | 10 mm  |
|      | 66518     | 11 mm  |
|      | 66519     | 12 mm  |
|      | 66520     | 13 mm  |
|      | 66521     | 14 mm  |

### 1000V 12 PCS.



| COD.         | PCS. |   |
|--------------|------|---|
| <b>79466</b> | 12   | C |

| PCS. | COD. PCS. |      |
|------|-----------|------|
|      | 75038     | TT7  |
|      | 75039     | TT8  |
|      | 75040     | TT9  |
|      | 75041     | TT10 |
|      | 75042     | TT15 |
| 1    | 75043     | TT20 |
|      | 75044     | TT25 |
|      | 75045     | TT27 |
|      | 75046     | TT30 |
|      | 75047     | TT40 |
|      | 75048     | TT45 |
|      | 75049     | TT50 |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>79467</b> | 12   | C |

| PCS. | COD. PCS. |        |
|------|-----------|--------|
|      | 74698     | 4 mm   |
|      | 74699     | 5 mm   |
|      | 74700     | 5,5 mm |
|      | 74701     | 6 mm   |
|      | 74702     | 7 mm   |
| 1    | 74703     | 8 mm   |
|      | 74704     | 9 mm   |
|      | 74705     | 10 mm  |
|      | 74706     | 11 mm  |
|      | 74707     | 12 mm  |
|      | 74708     | 13 mm  |
|      | 74709     | 14 mm  |

## EGA

### 13 PCS.



C

| COD.         | PCS. |   |
|--------------|------|---|
| <b>56028</b> | 13   | C |

| PCS. | COD. PCS. |     |
|------|-----------|-----|
|      | 66474     | T6  |
|      | 66475     | T7  |
|      | 66476     | T8  |
|      | 66477     | T9  |
|      | 66478     | T10 |
|      | 66479     | T15 |
| 1    | 66480     | T20 |
|      | 66481     | T25 |
|      | 66482     | T27 |
|      | 66483     | T30 |
|      | 66484     | T40 |
|      | 66485     | T45 |
|      | 66486     | T50 |



### 150 PCS.



| COD.         | PCS. |  |
|--------------|------|--|
| <b>66540</b> | 150  |  |

| PCS. | COD. PCS. |              |
|------|-----------|--------------|
|      | 66402     | 5,5 x 100 mm |
|      | 66404     | 6,5 x 125 mm |
|      | 66406     | 8 x 150 mm   |
|      | 66421     | 3 x 60 mm    |
|      | 66422     | 3 x 100 mm   |
|      | 66423     | 4 x 125 mm   |
|      | 66425     | 5,5 x 150 mm |
| 10   | 66426     | 6,5 x 150 mm |
|      | 76621     | 3 x 100 mm   |
|      | 66438     | PH0          |
|      | 66439     | PH1          |
|      | 66440     | PH2          |
|      | 66456     | PZ0          |
|      | 66457     | PZ1          |
|      | 66458     | PZ2          |



### 56 PCS.



| COD.         | PCS. |  |
|--------------|------|--|
| <b>66541</b> | 56   |  |

| PCS. | COD. PCS. |              |
|------|-----------|--------------|
| 6    | 66402     | 5,5 x 100 mm |
|      | 66404     | 6,5 x 125 mm |
| 5    | 66406     | 8 x 150 mm   |
|      | 66423     | 4 x 125 mm   |
|      | 66425     | 5,5 x 150 mm |
| 6    | 76622     | 4 x 125 mm   |
|      | 66439     | PH1          |
| 5    | 66440     | PH2          |
| 6    | 66457     | PZ1          |
| 5    | 66458     | PZ2          |



### 1000V 13 PCS.



C

| COD.         | PCS. |   |
|--------------|------|---|
| <b>79465</b> | 13   | C |

| PCS. | COD. PCS. |     |
|------|-----------|-----|
|      | 76638     | T6  |
|      | 76639     | T7  |
|      | 76640     | T8  |
|      | 76641     | T9  |
|      | 76642     | T10 |
|      | 76643     | T15 |
| 1    | 76644     | T20 |
|      | 76645     | T25 |
|      | 76646     | T27 |
|      | 76647     | T30 |
|      | 76648     | T40 |
|      | 76649     | T45 |
|      | 76650     | T50 |



### T - MASTERTORK

### 7 PCS.



| COD.         | PCS. |  |
|--------------|------|--|
| <b>55403</b> | 7    |  |

| PCS. | COD. PCS. |        |
|------|-----------|--------|
|      | 66571     | 2,5 mm |
|      | 66572     | 3 mm   |
|      | 66573     | 4 mm   |
| 1    | 66574     | 5 mm   |
|      | 66575     | 6 mm   |
|      | 66576     | 8 mm   |
|      | 66577     | 10 mm  |



# 05

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**OTBEPTKИ**



## EGA

### ■ ROTORK

#### ■ 1000V 4 PCS.



| COD.         | PCS. |   |
|--------------|------|---|
| <b>76988</b> |      | A |
| <b>76989</b> | 4    | B |

| PCS. | COD. PCS. |     |
|------|-----------|-----|
| 1    | 76655     | PH0 |
|      | 76656     | PH1 |
|      | 76657     | PH2 |
|      | 76658     | PH3 |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>76985</b> |      | A |
| <b>76986</b> | 4    | B |

| PCS. | COD. PCS. |     |
|------|-----------|-----|
| 1    | 76659     | PZ0 |
|      | 76660     | PZ1 |
|      | 76661     | PZ2 |
|      | 76662     | PZ3 |

#### ■ 5 PCS.



| COD.         | PCS. |   |
|--------------|------|---|
| <b>66995</b> |      | A |
| <b>68495</b> | 5    | B |

| PCS. | COD. PCS. |              |
|------|-----------|--------------|
| 1    | 66877     | 5,5 x 125 mm |
|      | 66887     | 3 x 100 mm   |
|      | 66890     | 5 x 150 mm   |
|      | 66898     | PH1          |
|      | 66899     | PH2          |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>69125</b> |      | A |
| <b>69126</b> | 5    | B |

| PCS. | COD. PCS. |              |
|------|-----------|--------------|
| 1    | 66874     | 3 x 80 mm    |
|      | 66875     | 4 x 100 mm   |
|      | 66877     | 5,5 x 125 mm |
|      | 66879     | 6,5 x 150 mm |
|      | 66881     | 8 x 200 mm   |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>69143</b> |      | A |
| <b>69144</b> | 5    | B |

| PCS. | COD. PCS. |            |
|------|-----------|------------|
| 1    | 66886     | 3 x 60 mm  |
|      | 66887     | 3 x 100 mm |
|      | 66888     | 4 x 125 mm |
|      | 66890     | 5 x 150 mm |
|      | 66891     | 5 x 200 mm |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>69714</b> |      | A |
| <b>69718</b> | 5    | B |

| PCS. | COD. PCS. |     |
|------|-----------|-----|
| 1    | 66897     | PH0 |
|      | 66898     | PH1 |
|      | 66899     | PH2 |
|      | 66900     | PH3 |
|      | 67131     | PH4 |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>69723</b> |      | A |
| <b>69727</b> | 5    | B |

| PCS. | COD. PCS. |     |
|------|-----------|-----|
| 1    | 66907     | PZ0 |
|      | 66908     | PZ1 |
|      | 66909     | PZ2 |
|      | 66910     | PZ3 |
|      | 67064     | PZ4 |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>55537</b> |      | A |
| <b>55538</b> | 5    | B |

| PCS. | COD. PCS. |             |
|------|-----------|-------------|
| 1    | 67149     | 2,5 x 60 mm |
|      | 66887     | 3 x 100 mm  |
|      | 66888     | 4 x 125 mm  |
|      | 66890     | 5 x 150 mm  |
|      | 67108     | 8 x 175 mm  |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>55546</b> |      | A |
| <b>55547</b> | 5    | B |

| PCS. | COD. PCS. |     |
|------|-----------|-----|
| 1    | 66907     | PZ0 |
|      | 66908     | PZ1 |
|      | 66909     | PZ2 |
|      | 66910     | PZ3 |
|      | 67064     | PZ4 |

#### ■ 1000V 5 PCS.



| COD.         | PCS. |   |
|--------------|------|---|
| <b>76961</b> |      | A |
| <b>76962</b> | 5    | B |

| PCS. | COD. PCS. |     |
|------|-----------|-----|
| 1    | 76655     | PH0 |
|      | 76656     | PH1 |
|      | 76657     | PH2 |
|      | 76658     | PH3 |
|      | 76735     | PH4 |

#### ■ 6 PCS.



| COD.         | PCS. |   |
|--------------|------|---|
| <b>66996</b> |      | A |
| <b>68496</b> | 6    | B |

| PCS. | COD. PCS. |             |
|------|-----------|-------------|
| 1    | 67149     | 2,5 x 60 mm |
|      | 66887     | 3 x 100 mm  |
|      | 66888     | 4 x 125 mm  |
|      | 66890     | 5 x 150 mm  |
|      | 66898     | PH1         |
|      | 66899     | PH2         |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>55531</b> |      | A |
| <b>55532</b> | 6    | B |

| PCS. | COD. PCS. |              |
|------|-----------|--------------|
| 1    | 66874     | 3 x 80 mm    |
|      | 66875     | 4 x 100 mm   |
|      | 66877     | 5,5 x 125 mm |
|      | 66879     | 6,5 x 150 mm |
|      | 66881     | 8 x 200 mm   |
|      | 66882     | 10 x 200 mm  |

## EGA

| COD.         | PCS. |   |
|--------------|------|---|
| <b>55552</b> |      | A |
| <b>55553</b> | 6    | B |

| PCS.      | COD. PCS.          |  |  |
|-----------|--------------------|--|--|
| 1         | 66875 4 x 100 mm   |  |  |
|           | 66877 5,5 x 125 mm |  |  |
|           | 66879 6,5 x 150 mm |  |  |
|           | 66898 PH1          |  |  |
|           | 66899 PH2          |  |  |
| 66900 PH3 |                    |  |  |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>55549</b> |      | A |
| <b>55550</b> | 6    | B |

| PCS.      | COD. PCS.          |  |  |
|-----------|--------------------|--|--|
| 1         | 66875 4 x 100 mm   |  |  |
|           | 66876 5,5 x 100 mm |  |  |
|           | 66878 6,5 x 125 mm |  |  |
|           | 66908 PZ1          |  |  |
|           | 66909 PZ2          |  |  |
| 66910 PZ3 |                    |  |  |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>76967</b> |      | A |
| <b>76968</b> | 6    | B |

| PCS.      | COD. PCS.          |  |  |
|-----------|--------------------|--|--|
| 1         | 76730 2,5 x 60 mm  |  |  |
|           | 76651 3 x 100 mm   |  |  |
|           | 76652 4 x 125 mm   |  |  |
|           | 76653 5,5 x 150 mm |  |  |
|           | 76656 PH1          |  |  |
| 76657 PH2 |                    |  |  |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>76943</b> |      | A |
| <b>76944</b> | 6    | B |

| PCS.      | COD. PCS.          |  |  |
|-----------|--------------------|--|--|
| 1         | 76651 3 x 100 mm   |  |  |
|           | 76652 4 x 125 mm   |  |  |
|           | 76653 5,5 x 150 mm |  |  |
|           | 76655 PH0          |  |  |
|           | 76656 PH1          |  |  |
| 76657 PH2 |                    |  |  |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>76952</b> |      | A |
| <b>76953</b> | 6    | B |

| PCS.      | COD. PCS.          |  |  |
|-----------|--------------------|--|--|
| 1         | 76651 3 x 100 mm   |  |  |
|           | 76652 4 x 125 mm   |  |  |
|           | 76653 5,5 x 150 mm |  |  |
|           | 76659 PZ0          |  |  |
|           | 76660 PZ1          |  |  |
| 76661 PZ2 |                    |  |  |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>76976</b> |      | A |
| <b>76977</b> | 6    | B |

| PCS.      | COD. PCS.          |  |  |
|-----------|--------------------|--|--|
| 1         | 76651 3 x 100 mm   |  |  |
|           | 76652 4 x 125 mm   |  |  |
|           | 76654 6,5 x 150 mm |  |  |
|           | 76656 PH1          |  |  |
|           | 76657 PH2          |  |  |
| 76658 PH3 |                    |  |  |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>76970</b> |      | A |
| <b>76971</b> | 6    | B |

| PCS.      | COD. PCS.          |  |  |
|-----------|--------------------|--|--|
| 1         | 76651 3 x 100 mm   |  |  |
|           | 76652 4 x 125 mm   |  |  |
|           | 76654 6,5 x 150 mm |  |  |
|           | 76659 PZ0          |  |  |
|           | 76660 PZ1          |  |  |
| 76661 PZ2 |                    |  |  |

### 7 PCS.



| COD.         | PCS. |   |
|--------------|------|---|
| <b>55555</b> |      | A |
| <b>55556</b> | 7    | B |

| PCS. | COD. PCS. |  |
|------|-----------|--|
| 1    | 66921 T10 |  |
|      | 66922 T15 |  |
|      | 66923 T20 |  |
|      | 66924 T25 |  |
|      | 66925 T27 |  |
|      | 66926 T30 |  |
|      | 66927 T40 |  |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>55558</b> |      | A |
| <b>55559</b> | 7    | B |

| PCS. | COD. PCS. |  |
|------|-----------|--|
| 1    | 66917 T6  |  |
|      | 66919 T8  |  |
|      | 66921 T10 |  |
|      | 66922 T15 |  |
|      | 66923 T20 |  |
|      | 66924 T25 |  |
|      | 66926 T30 |  |

### 1000V 6 PCS.



| COD.         | PCS. |   |
|--------------|------|---|
| <b>76973</b> |      | A |
| <b>76974</b> | 6    | B |

| PCS.             | COD. PCS.          |  |  |
|------------------|--------------------|--|--|
| 1                | 76730 2,5 x 60 mm  |  |  |
|                  | 76651 3 x 100 mm   |  |  |
|                  | 76652 4 x 125 mm   |  |  |
|                  | 76653 5,5 x 150 mm |  |  |
|                  | 76654 6,5 x 150 mm |  |  |
| 76732 8 x 175 mm |                    |  |  |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>76955</b> |      | A |
| <b>76956</b> | 6    | B |

| PCS.              | COD. PCS.          |  |  |
|-------------------|--------------------|--|--|
| 1                 | 76651 3 x 100 mm   |  |  |
|                   | 76652 4 x 125 mm   |  |  |
|                   | 76653 5,5 x 150 mm |  |  |
|                   | 76654 6,5 x 150 mm |  |  |
|                   | 76732 8 x 175 mm   |  |  |
| 76733 10 x 200 mm |                    |  |  |

## EGA

### 8 PCS.



| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>66997</b> | 8    | — | A |
| <b>68497</b> | 8    | — | B |

| PCS. | COD. PCS. |              |  |
|------|-----------|--------------|--|
| 1    | 66887     | 3 x 100 mm   |  |
|      | 66888     | 4 x 125 mm   |  |
|      | 66877     | 5,5 x 125 mm |  |
|      | 66879     | 6,5 x 150 mm |  |
|      | 66897     | PH0          |  |
|      | 66898     | PH1          |  |
|      | 66908     | PZ1          |  |
|      | 66909     | PZ2          |  |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>69128</b> | 8    | — | A |
| <b>69129</b> | 8    | — | B |

| PCS. | COD. PCS. |              |  |
|------|-----------|--------------|--|
| 1    | 66874     | 3 x 80 mm    |  |
|      | 66875     | 4 x 100 mm   |  |
|      | 66876     | 5,5 x 100 mm |  |
|      | 66877     | 5,5 x 125 mm |  |
|      | 66878     | 6,5 x 125 mm |  |
|      | 66880     | 8 x 150 mm   |  |
|      | 66881     | 8 x 200 mm   |  |
|      | 66882     | 10 x 200 mm  |  |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>69159</b> | 8    | — | A |
| <b>69168</b> | 8    | — | B |

| PCS. | COD. PCS. |             |  |
|------|-----------|-------------|--|
| 1    | 67149     | 2,5 x 60 mm |  |
|      | 66887     | 3 x 100 mm  |  |
|      | 66888     | 4 x 125 mm  |  |
|      | 66890     | 5 x 150 mm  |  |
|      | 66891     | 5 x 200 mm  |  |
|      | 66892     | 6 x 150 mm  |  |
|      | 67108     | 8 x 175 mm  |  |
|      | 67109     | 10 x 200 mm |  |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>55561</b> | 8    | — | A |
| <b>55562</b> | 8    | — | B |

| PCS. | COD. PCS. |              |  |
|------|-----------|--------------|--|
| 1    | 66874     | 3 x 80 mm    |  |
|      | 66875     | 4 x 100 mm   |  |
|      | 66877     | 5,5 x 125 mm |  |
|      | 66879     | 6,5 x 150 mm |  |
|      | 66897     | PH0          |  |
|      | 66898     | PH1          |  |
|      | 66899     | PH2          |  |
|      | 66900     | PH3          |  |

### 1000V 8 PCS.



| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76684</b> | 8    | — | A |
| <b>76685</b> | 8    | — | B |

| PCS. | COD. PCS. |              |  |
|------|-----------|--------------|--|
| 1    | 76651     | 3 x 100 mm   |  |
|      | 76652     | 4 x 125 mm   |  |
|      | 76653     | 5,5 x 150 mm |  |
|      | 76654     | 6,5 x 150 mm |  |
|      | 76656     | PH1          |  |
|      | 76657     | PH2          |  |
|      | 76660     | PZ1          |  |
|      | 76661     | PZ2          |  |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76964</b> | 8    | — | A |
| <b>76965</b> | 8    | — | B |

| PCS. | COD. PCS. |              |  |
|------|-----------|--------------|--|
| 1    | 76730     | 2,5 x 60 mm  |  |
|      | 76652     | 4 x 125 mm   |  |
|      | 76653     | 5,5 x 150 mm |  |
|      | 76654     | 6,5 x 150 mm |  |
|      | 76655     | PH0          |  |
|      | 76656     | PH1          |  |
|      | 76657     | PH2          |  |
|      | 76658     | PH3          |  |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76982</b> | 8    | — | A |
| <b>76983</b> | 8    | — | B |

| PCS. | COD. PCS. |              |  |
|------|-----------|--------------|--|
| 1    | 76730     | 2,5 x 60 mm  |  |
|      | 76651     | 3 x 100 mm   |  |
|      | 76652     | 4 x 125 mm   |  |
|      | 76654     | 6,5 x 150 mm |  |
|      | 76655     | PH0          |  |
|      | 76656     | PH1          |  |
|      | 76657     | PH2          |  |
|      | 76658     | PH3          |  |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76949</b> | 8    | — | A |
| <b>76950</b> | 8    | — | B |

| PCS. | COD. PCS. |              |  |
|------|-----------|--------------|--|
| 1    | 76730     | 2,5 x 60 mm  |  |
|      | 76731     | 3 x 60 mm    |  |
|      | 76652     | 4 x 125 mm   |  |
|      | 76653     | 5,5 x 150 mm |  |
|      | 76654     | 6,5 x 150 mm |  |
|      | 76659     | PZ0          |  |
|      | 76660     | PZ1          |  |
|      | 76661     | PZ2          |  |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76979</b> | 8    | — | A |
| <b>76980</b> | 8    | — | B |

| PCS. | COD. PCS. |              |  |
|------|-----------|--------------|--|
| 1    | 76651     | 3 x 100 mm   |  |
|      | 76652     | 4 x 125 mm   |  |
|      | 76653     | 5,5 x 150 mm |  |
|      | 76654     | 6,5 x 150 mm |  |
|      | 76655     | PH0          |  |
|      | 76656     | PH1          |  |
|      | 76657     | PH2          |  |
|      | 76658     | PH3          |  |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76958</b> | 8    | — | A |
| <b>76959</b> | 8    | — | B |

| PCS. | COD. PCS. |     |  |
|------|-----------|-----|--|
| 1    | 76655     | PH0 |  |
|      | 76656     | PH1 |  |
|      | 76657     | PH2 |  |
|      | 76658     | PH3 |  |
|      | 76659     | PZ0 |  |
|      | 76660     | PZ1 |  |
|      | 76661     | PZ2 |  |
|      | 76662     | PZ3 |  |

## EGA

### 150 PCS.



| COD.         | PCS. |
|--------------|------|
| <b>66992</b> | 150  |

| PCS. | COD.  | PCS.         |  |
|------|-------|--------------|--|
|      | 66876 | 5,5 x 100 mm |  |
|      | 66878 | 6,5 x 125 mm |  |
|      | 66880 | 8 x 150 mm   |  |
|      | 66886 | 3 x 60 mm    |  |
|      | 66887 | 3 x 100 mm   |  |
|      | 66888 | 4 x 125 mm   |  |
|      | 66890 | 5 x 150 mm   |  |
| 10   | 66892 | 6 x 150 mm   |  |
|      | 76651 | 3 x 100 mm   |  |
|      | 66897 | PH0          |  |
|      | 66898 | PH1          |  |
|      | 66899 | PH2          |  |
|      | 66907 | PZ0          |  |
|      | 66908 | PZ1          |  |
|      | 66909 | PZ2          |  |

### 60 PCS.



| COD.         | PCS. |
|--------------|------|
| <b>66993</b> | 60   |

| PCS. | COD.  | PCS.         |  |
|------|-------|--------------|--|
| 6    | 66876 | 5,5 x 100 mm |  |
| 5    | 66878 | 6,5 x 125 mm |  |
|      | 66880 | 8 x 150 mm   |  |
| 7    | 66887 | 3 x 100 mm   |  |
|      | 66888 | 4 x 125 mm   |  |
|      | 66890 | 5 x 150 mm   |  |
|      | 66898 | PH1          |  |
| 6    | 66899 | PH2          |  |
|      | 66908 | PZ1          |  |
|      | 66909 | PZ2          |  |

### MICROTRONIC

### 100 PCS.



| COD.         | PCS. |
|--------------|------|
| <b>66994</b> | 100  |

| PCS. | COD.  | PCS.        |  |
|------|-------|-------------|--|
|      | 66846 | 2 x 50 mm   |  |
|      | 66847 | 2 x 75 mm   |  |
|      | 66848 | 3 x 75 mm   |  |
|      | 66849 | 4 x 75 mm   |  |
|      | 66850 | PH00        |  |
|      | 66851 | PH0         |  |
|      | 66852 | PH1         |  |
|      | 66853 | PZ0         |  |
|      | 66854 | PZ1         |  |
| 5    | 66855 | T6          |  |
|      | 66856 | T7          |  |
|      | 66857 | T8          |  |
|      | 66858 | T9          |  |
|      | 66859 | T10         |  |
|      | 66860 | T15         |  |
|      | 66861 | T20         |  |
|      | 57684 | 1,5 x 50 mm |  |
|      | 57685 | 2 x 50 mm   |  |
|      | 66864 | 2,5 x 50 mm |  |
|      | 66865 | 3 x 60 mm   |  |



| COD.         | PCS. |
|--------------|------|
| <b>66990</b> | 100  |

| PCS. | COD.  | PCS.        |  |
|------|-------|-------------|--|
|      | 66846 | 2 x 50 mm   |  |
|      | 66847 | 2 x 75 mm   |  |
|      | 66848 | 3 x 75 mm   |  |
|      | 66849 | 4 x 75 mm   |  |
|      | 66850 | PH00        |  |
|      | 66851 | PH0         |  |
|      | 66852 | PH1         |  |
|      | 66853 | PZ0         |  |
|      | 66854 | PZ1         |  |
| 5    | 66866 | TT6         |  |
|      | 66867 | TT7         |  |
|      | 66868 | TT8         |  |
|      | 66869 | TT9         |  |
|      | 66870 | TT10        |  |
|      | 66871 | TT15        |  |
|      | 66872 | TT20        |  |
|      | 57684 | 1,5 x 50 mm |  |
|      | 57685 | 2 x 50 mm   |  |
|      | 66864 | 2,5 x 50 mm |  |
|      | 66865 | 3 x 60 mm   |  |

### 6 PCS.





| COD.         | PCS. |
|--------------|------|
| <b>66999</b> | 6    |

| PCS. | COD.  | PCS.      |  |
|------|-------|-----------|--|
|      | 66846 | 2 x 50 mm |  |
|      | 66848 | 3 x 75 mm |  |
| 1    | 66850 | PH00      |  |
|      | 66851 | PH0       |  |
|      | 66853 | PZ0       |  |
|      | 66854 | PZ1       |  |

**EGA**
**1000V 7 PCS.**








| COD.         | PCS. |
|--------------|------|
| <b>76083</b> | 7    |

| PCS. | COD.  | PCS.        |                                                                                   |
|------|-------|-------------|-----------------------------------------------------------------------------------|
|      | 75156 | 1,5 x 40 mm |                                                                                   |
|      | 75157 | 1,8 x 60 mm |                                                                                   |
|      | 75158 | 2 x 60 mm   |  |
| 1    | 75159 | 2,5 x 75 mm |                                                                                   |
|      | 75201 | 3 x 75 mm   |                                                                                   |
|      | 75202 | PH00        |  |
|      | 75203 | PH0         |                                                                                   |

**ESD**
**6 PCS.**


| COD.         | PCS. |
|--------------|------|
| <b>68899</b> | 6    |






 ESD 

| PCS. | COD.  | PCS.      |                                                                                    |
|------|-------|-----------|------------------------------------------------------------------------------------|
|      | 64747 | PH00      |   |
|      | 64748 | PH0       |   |
| 1    | 64742 | 2 x 60 mm |   |
|      | 64744 | 3 x 60 mm |   |
|      | 64753 | PZ0       |  |
|      | 64754 | PZ1       |  |

**8 PCS.**


| COD.         | PCS. |
|--------------|------|
| <b>68898</b> | 8    |

 ESD 

| PCS. | COD.  | PCS. | Descripción /<br>Description /<br>Description                 |                                                                                                 |
|------|-------|------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
|      | 64730 |      | Alicate universal ESD /<br>ESD Combination plier              |                                                                                                 |
|      | 64736 |      | Alicate corte diagonal<br>ESD / ESD Diagonal<br>cutting plier | 115 mm                                                                                          |
| 1    | 64733 |      | Alicate telefonista<br>ESD / ESD Long nose<br>plier           | 135 mm                                                                                          |
|      | 64742 |      |                                                               | 2 x 60 mm  |
|      | 64744 |      |                                                               | 3 x 60 mm  |
|      | 64747 |      | Destornilladores<br>ESD / ESD Screwdrivers                    | PH00       |
|      | 64748 |      |                                                               | PH0        |
|      | 64749 |      |                                                               | PH1        |

**BUSCAPOLOS / VOLTAGE TESTER / TESTEUR / SPANNUNGSPRÜFER / CERCAFASE / BUSCA-POLOS / ИЗМЕРИТЕЛЬ НАПРЯЖЕНИЯ**
**BUSCAPOLOS / VOLTAGE TESTER / TESTEUR / SPANNUNGSPRÜFER / CERCAFASE / BUSCA-POLOS / ИЗМЕРИТЕЛЬ НАПРЯЖЕНИЯ**

| COD.         | L (mm) |  | V          |  |  |  |
|--------------|--------|-------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>66073</b> | 190    | 3 x 15                                                                              | 100-250 AC | 30                                                                                  | 12                                                                                  | ●                                                                                     |


**BUSCAPOLOS DIGITAL / DIGITAL VOLTAGE TESTER / TESTEUR DIGITAL / DIGITAL SPANNUNGSPRÜFER / CERCAFASE DIGITALE / BUSCA-POLOS DIGITAL / ЦИФРОВОЙ ИЗМЕРИТЕЛЬ НАПРЯЖЕНИЯ**

| COD.         | L (mm) |  | V           |  |  |  |
|--------------|--------|-------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>66074</b> | 160    | 3 x 15                                                                              | 0-220 AC/DC | 40                                                                                  | 4                                                                                   | ●                                                                                     |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

5 niveles de tensión / 5 voltage levels / 5 niveaux de tension






**TESTER ELECTRÓNICO MEDIDOR DE TENSIÓN 2 EN 1 / ELECTRONIC TESTER 2 IN 1 / TESTEUR ELECTRONIQUE À MESURE DE TENSION 2 EN 1 / SPANNUNGSPRÜFER ELEKTRONIK, 2 IN 1 / TESTER ELECTRONICO 2 IN 1 / MEDIDOR DE TENSÃO 2 EM 1 / ЭЛЕКТРОННЫЙ ТЕСТЕР 2 В 1**

| COD.         | L (mm) | V        |  |  |  |
|--------------|--------|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>66075</b> | 190    | 6-380 AC | 220                                                                                 | 4                                                                                   | ●                                                                                     |



## EGA

### BUSCAPOLOS CLASSIC / VOLTAGE TESTER / TESTEUR / SPANNUNGSPRÜFER / CERCAFASE / BUSCA-POLOS / ИЗМЕРИТЕЛЬ НАПРЯЖЕНИЯ

| COD.  | L (mm) |  |  | V          |  |  |  |
|-------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66070 | 140    | 65                                                                                | 3                                                                                 | 100-250 AC | 20                                                                                | 12                                                                                | ●                                                                                   |
| 66071 | 190    | 100                                                                               | 4                                                                                 | 100-250 AC | 35                                                                                | 12                                                                                | ●                                                                                   |
| 66069 |        |                                                                                   | 3,5                                                                               | 90-480 AC  | 40                                                                                |                                                                                   |                                                                                     |

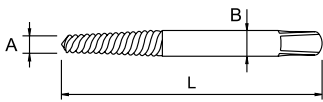



### MAGNETIZADOR-DESMAGNETIZADOR / MAGNETIZER-DEMAGNETIZER / MAGNETISEUR-DEMAGNETISEUR / MAGNETISIERT-ENTMAGNETISIERTVORRICHTUNG / MAGNETIZZATORE- SNAGNETIZZATORE / MAGNETIZADOR-DESMAGNETIZADOR / НАМАГНИЧИВАТЕЛЬ-РАЗМАГНИЧИВАТЕЛЬ

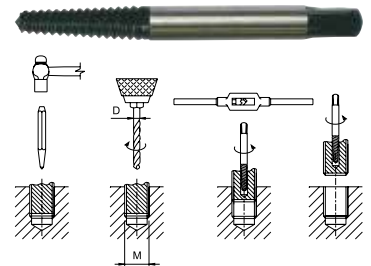
| COD.  |  |  |  |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 69504 | 80                                                                                | 12                                                                                | ●                                                                                 |




### EXTRACTORES DE TORNILLOS / SCREW EXTRACTORS / EXTRACTEUR DE VIS / SCHRAUBENAUSDREHER / ESTRATTORI / EXTRACTORES DE PERNOS / РЕЗЬБОВЫЕ ЭКСТРАКТОРЫ



| COD.  | L (mm) | A (mm) | B (mm) | M     | D (mm) |  |
|-------|--------|--------|--------|-------|--------|---------------------------------------------------------------------------------------|
| 61583 | 50     | 2,6    | 3,9    | 3-6   | 2,5    | 5                                                                                     |
| 61584 | 55     | 3,0    | 4,3    | 6-8   | 3,0    | 10                                                                                    |
| 61585 | 65     | 4,0    | 6,5    | 8-11  | 4,5    | 20                                                                                    |
| 61586 | 75     | 4,5    | 7,5    | 11-14 | 6,0    | 30                                                                                    |
| 61587 | 85     | 7,0    | 11     | 14-18 | 8,0    | 50                                                                                    |
| 61588 | 90     | 9,0    | 15     | 18-25 | 11     | 100                                                                                   |
| 61589 | 95     | 9,5    | 19     | 25-35 | 14     | 150                                                                                   |
| 61590 | 100    | 14     | 24     | >35   | 20     | 200                                                                                   |



### SET

| COD.  | PCS. |  |
|-------|------|-------------------------------------------------------------------------------------|
| 61591 | 5    | 100                                                                                 |
| 61592 | 6    | 200                                                                                 |
| 61593 | 8    | 750                                                                                 |

Composición / Composition / Composition

61583, 61584, 61585, 61586, 61587, 61588, 61589, 61590





6

PUNTAS DE DESTORNILLADOR

*BITS*

EMBOUTS DE VISSAGE

*BITS*

INSERTI

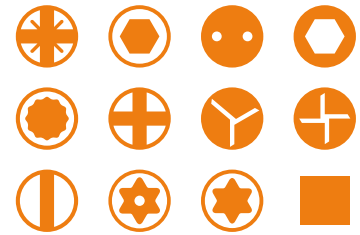
PONTAS

БИТЫ



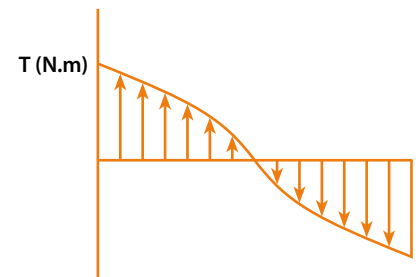
#### ■ MASTERBIT

- Alta calidad de material, Cr-Mo-V, que permite alcanzar altas durezas manteniendo la tenacidad
- Alta dureza, con la consiguiente resistencia al desgaste: 56-60 HRC
- High quality material, Cr-Mo-V, enables the bit to achieve high hardness while maintaining the tenacity*
- High hardness, provides strong resistance to wearing: 56-60HRC*
- Matériau de grande qualité, Cr-Mo-V, qui permet d'atteindre des hautes duretés tout en gardant la tenacité
- Grande dureté, renforce la résistance à l'usure : 56-60HRC



#### ■ MASTERBIT TORSION

- Alta calidad de material, Cr-Mo-V, que permite alcanzar altas durezas manteniendo la tenacidad
- Alta dureza, con la consiguiente resistencia al desgaste: 56-60 HRC
- Buen acceso a espacios reducidos de atornillado/desatornillado
- La zona especial de torsión amortigua el esfuerzo final de atornillado
- Se alarga la vida de la punta y del atornillador gracias a la potencia de torsión
- High quality material, Cr-Mo-V, enables the bit to achieve high hardness while maintaining the tenacity*
- High hardness, provides strong resistance to wearing: 56-60HRC*
- Good access to confined spaces for screwing/unscrewing*
- The special zone for torsion cushions the final effort of screwing*
- The life of the bit and the screwdriver is longer due to the torsion power*
- Matériau de grande qualité, Cr-Mo-V, qui permet d'atteindre des hautes duretés tout en gardant la tenacité
- Grande dureté, résultant une résistance à l'usure : 56-60HRC
- Bonne accessibilité à des espaces réduits pour visser et dévisser
- La zone spéciale de torsion amortit la force finale de vissage
- La durée de vie de l'embout et du porte embout est améliorée grâce à la capacité de torsion



#### ■ MASTERBIT NON-SLIP

- Alta calidad de material, Cr-Mo-V, que permite alcanzar altas durezas manteniendo la tenacidad
- Alta dureza, con la consiguiente resistencia al desgaste: 56-60 HRC
- Especialmente diseñada para disminuir el efecto de expulsión en el atornillado fuerte
- Se alarga la vida de la punta y del atornillador gracias a la reducción del efecto expulsión
- High quality material, Cr-Mo-V, enables the bit to achieve high hardness while maintaining the tenacity*
- High hardness, provides strong resistance to wearing: 56-60HRC*
- Specially designed to avoid undesired slides*
- The life of the bit and the screwdriver becomes longer due to the reduction of come out effect*
- Matériau de grande qualité, Cr-Mo-V, qui permet d'atteindre des hautes duretés tout en gardant la tenacité
- Grande dureté, résultant une résistance à l'usure : 56-60HRC
- Spécialement conçue pour diminuer l'effet d'expulsion pour des vissages difficiles
- La durée de vie de l'embout et du porte-embout est supérieure grâce à la réduction de l'effet d'expulsion










#### ■ MASTERBIT TIN

- Alta calidad de material, Cr-Mo-V, que permite alcanzar altas durezas manteniendo la tenacidad
- Alta dureza, con la consiguiente resistencia al desgaste: 56-60 HRC
- Alta dureza superficial, con la consiguiente resistencia al desgaste: 2400 Hv
- Puntas recubiertas de Nitruro de Titanio especialmente indicadas para trabajos repetitivos
- La vida de la punta se alarga de 4 a 10 veces
- Excelente resistencia antioxidante
- High quality material, Cr-Mo-V, enables the bit to achieve high hardness while maintaining the tenacity*
- High hardness, provides strong resistance to wearing: 56-60HRC*
- High superficial hardness, getting a extremely high resistance to wearing: 2400Hv*
- Titan Nitride coated bits are specially suitable for repetitive works*
- The life of the bit becomes up to 10 times longer*
- Excellent anti-rust protection*
- Matériau de grande qualité, Cr-Mo-V, qui permet d'atteindre des hautes duretés tout en gardant la tenacité
- Grande dureté, résultant une résistance à l'usure : 56-60HRC
- Grande dureté superficielle, avec une résistance à l'usure acquise de: 2400Hv
- Embouts recouverts de triniture de titane, spécialement indiqué pour des travaux répétitifs
- La durée de vie de l'embout est 4 à 10 fois supérieure
- Excellente résistance à l'oxydation



**DESTORNILLADORES PORTAPUNTAS / BITHOLDER SCREWDRIVERS / TOURNEVIS PORTE-EMBOUS / BITHALTER SCHRAUBENDREHER / CACCIAVITE PORTA INSERTI / CHAVE PORTA PONTAS / ОБЕРТКИ С БИТОДЕРЖАТЕЛЯМИ**

**DESTORNILLADOR PORTAPUNTAS MAGNÉTICO / MAGNETIC BITHOLDER SCREWDRIVER / TOURNEVIS PORTE-EMBOUS MAGNÉTIQUE / MAGNETISCHER BITHALTER-SCHRAUBENDREHER / CACCIAVITE PORTA INSERTI MAGNETICOM / CHAVE PORTA PONTAS MAGNETICO / ОТВЕРТКА С МАГНИТНЫМ БИТОДЕРЖАТЕЛЕМ**

| COD.  |  | L (mm) |  |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66731 | 1/4                                                                               | 215    | 105                                                                               | 6                                                                                 | ●                                                                                   |                                                                                     |
| 76737 | 1/4                                                                               | 210    | 120                                                                               | 6                                                                                 | ●                                                                                   |  |
| 66249 | 1/4                                                                               | 150    | 75                                                                                | 6                                                                                 | ●                                                                                   |  |

 1000V | IEC 60900

**DESTORNILLADOR PORTAPUNTAS MAGNÉTICO CON CARRACA / MAGNETIC BITHOLDER RATCHET SCREWDRIVER / TOURNEVIS PORTE-EMBOUS MAGNÉTIQUE À CLIQUET / MAGNETISCHER BITHALTER-SCHRAUBENDREHER MIT RATSCHEN / CACCIAVITE PORTA INSERTI MAGNETICO A CRICCO / CHAVE PORTA PONTAS MAGNETICO COM ROQUETE / ОБЕРТКИ С БИТОДЕРЖАТЕЛЯМИ С ТРЕЩЕТКОЙ**

| COD.  |  | L (mm) |  |  |  |  |
|-------|------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 66843 | 1/4                                                                                | 220    | 200                                                                                | 6                                                                                  | ●                                                                                    |                                                                                      |

**DESTORNILLADOR PORTAPUNTAS CON VARILLA FLEXIBLE / BITHOLDER SCREWDRIVER WITH FLEXIBLE BLADE / TOURNEVIS PORTE-EMBOUS À LAME FLÉXIBLE / BITHALTER-SCHRAUBENDREHER MIT FLEXIDEM BLATT / CACCIAVITE PORTA INSERTI ARTICOLATO / CHAVE PORTA PONTAS FLEXIBEL / ОБЕРТКИ С БИТОДЕРЖАТЕЛЯМИ С ГИБКИМ ВАЛОМ**








| COD.  |  | L (mm)  |  |  |  |  |
|-------|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66844 | 1/4                                                                                 | 235-350 | 200                                                                                 | 6                                                                                   | ●                                                                                     |                                                                                       |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Carraca / Ratchet / Cliquet

**DESTORNILLADOR DINAMOMÉTRICO / TORQUE SCREWDRIVER / TOURNEVIS DYNAMOMÉTRIQUE / DREHMOMENT SCHRAUBENDREHER / CACCIAVITE DINAMOMETRICO / CHAVE DE FENDAS DINAMOMÉTRICA / ОТВЕРТКА СУСТАНОВКОЙ МОМЕНТА ЗАТЯГИВАНИЯ**

**DIGITAL / DIGITAL / DIGITAL / DIGITAAL / DIGITALE / DIGITAL / ЦИФРОВОЙ ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ**

| COD.  |  | cN.m   | Lb.in      | Kg.cm      | L (mm) |  |  | N.m   |  |
|-------|-------------------------------------------------------------------------------------|--------|------------|------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|
| 66578 | 1/4                                                                                 | 20-400 | 1,77-35,39 | 2,04-40,82 | 200    | 650                                                                                 | 1                                                                                   | 0,2-4 |  |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                                                            |                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| N.m                                                                                                                                                        | 0,2-4                                                                           |
| Precisión CW (a derechas) / Accuracy CW (clockwise) / Précision CW (sens horaire)                                                                          | ±2%                                                                             |
| Precisión CCW (a izquierdas) / Accuracy CCW (counter clockwise) / Précision CCW (sens anti-horaire)                                                        | ±3%                                                                             |
| Resolución / Resolution / Résolution                                                                                                                       | 0.1Nm / 0.01 Lb.in / 0.01 Kg-cm                                                 |
| Memoria de datos / Data memory / Mémoire de données                                                                                                        | 250                                                                             |
| Comunicación de datos al ordenador / Data communication to the computer / Transmission de données à l'ordinateur                                           | ●                                                                               |
| Cable para la comunicación de datos / Cable for data communication / Transmission de données                                                               | ●                                                                               |
| Certificado de calibración / Calibration certificate / Certificat de calibrage                                                                             | ●                                                                               |
| Pares prefijados / Preset Torque values / Paires Préétablies                                                                                               | 9                                                                               |
| Sistema de aviso / Warning system / Système d'alerte                                                                                                       | Alarma luminosa y sonora / Audible and light alarm / Alarme lumineuse et sonore |
| Modo de operación / Operation mode / Mode d'opération                                                                                                      | Peak/Track*                                                                     |
| Unidades de medida / Unit selection / Unités de mesure                                                                                                     | N.m / Lb.in / Kg.cm                                                             |
| Cd con los programas para la comunicación de datos / Cd with the programs for data communication / Cd avec les programmes pour la communication de données | ●                                                                               |
| Calibración vía web / Web calibration / Calibrage par l'intermédiaire de web                                                                               | 24 h                                                                            |
| Baterías / Batteries / Piles                                                                                                                               | AAA x 1                                                                         |
| Temperatura de trabajo / Working temperature / Température de travail                                                                                      | -10 °C - 60 °C                                                                  |
| Temperatura de almacenamiento / Storage temperature / Température de stockage                                                                              | -20 °C - 70 °C                                                                  |

\* : Modo Track: Valor de torsión actual - Modo Peak: Valor máximo de torsión / Track mode: Direct torque value - Peak mode: Max. torque Value / Mode Track: Valeur de torsion actuelle - Mode Peak: Valeur maximum de torsion










**ANALÓGICO / ANALOGIC / ANALOGIQUE / ANALOG / ANALOGICO / ANALÓGICO / АНАЛОГОВЫЙ**

| COD.         |  | N.m | L (mm) |  |  |
|--------------|-------------------------------------------------------------------------------------|-----|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>66873</b> | 1/4                                                                                 | 1-4 | 180    | 215                                                                                 | 1                                                                                     |





**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                  |       |
|----------------------------------|-------|
| Precisión / Accuracy / Précision | +/-6% |
|----------------------------------|-------|

| COD.         |  |  |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>66845</b> | 550                                                                                 | 1                                                                                   |




| PCS. | Descripción / Description / Description | L (mm)                                                                                              |
|------|-----------------------------------------|-----------------------------------------------------------------------------------------------------|
| 1    | Destornillador / Screwdriver            | Cod. 66873  180 |
| 5    | 3 - 4 - 5 - 6 - 8 mm                    |                  |
|      | 3 - 4 - 5,5 - 6,5 - 7 mm                |                  |
| 4    | PH0 - PH1 - PH2 - PH3                   |  25              |
|      | S1 - S2 - S3 - S4                       |                  |
| 2    | PZ1 - PZ2                               |                  |
| 6    | T10 - T15 - T20 - T25 - T30 - T40       |                  |
| 1    | Adaptador / Adapter                     |  60             |
|      |                                         |  25             |



| COD.  |  | N.m   | Lb.in | L (mm) |  |  |
|-------|-----------------------------------------------------------------------------------|-------|-------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66579 | 1/4                                                                               | 0.4-2 | -     | 135    | 130                                                                               | 1                                                                                   |
| 66594 | 1/4                                                                               | -     | 4-20  | 135    | 130                                                                               | 1                                                                                   |



| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES       |  |  |  |  |  |     |
|--------------------------------------------------------------------------------|--|--|--|--|--|-----|
| Precisión / Accuracy / Précision                                               |  |  |  |  |  | ±6% |
| Certificado de calibración / Calibration certificate / Certificat de calibrage |  |  |  |  |  | ●   |
| Estuche individual / Individual case / Étui individuel                         |  |  |  |  |  | ●   |

| COD.  |  | N.m | Lb.in | L (mm) |  |  |
|-------|-----------------------------------------------------------------------------------|-----|-------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66580 | 1/4                                                                               | 1-5 | -     | 160    | 130                                                                               | 1                                                                                   |
| 66595 | 1/4                                                                               | -   | 10-50 | 160    | 130                                                                               | 1                                                                                   |



| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES       |  |  |  |  |  |     |
|--------------------------------------------------------------------------------|--|--|--|--|--|-----|
| Precisión / Accuracy / Précision                                               |  |  |  |  |  | ±6% |
| Certificado de calibración / Calibration certificate / Certificat de calibrage |  |  |  |  |  | ●   |
| Estuche individual / Individual case / Étui individuel                         |  |  |  |  |  | ●   |

### ATORNILLADOR ELÉCTRICO / CORDLESS SCREWDRIWER / TOURNEVIS ÉLECTRIQUE / AKKUSCHRAUBER / CACCIAVITE ELETTRICO / APARAFUSADOR ELECTRICO / БЕЗПРОВОДНАЯ ОТВЕРТКА

| COD.  |  | Max. Nm | R.P.M. | V                  | V      | Bat.   |  |  |
|-------|------------------------------------------------------------------------------------|---------|--------|--------------------|--------|--------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 66508 | 1/4                                                                                | 4,5     | 200    | 110-240V (50-60Hz) | 3,6 DC | Li-ion | 950                                                                                | 1                                                                                    |



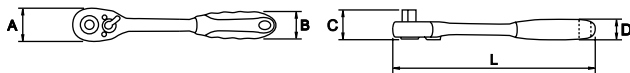
| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES |                                                                                                                                                           |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Autonomía en uso / Operating time / Autonomie en utilisation             | 50 min                                                                                                                                                    |
| Tiempo de carga / Charge time / Temps de recharge                        | 4 h                                                                                                                                                       |
| Puntas incluidas / Included bits / Pointes de tournevis inclus           | 2 x 0,4 / 3 x 0,5 / 5 x 0,8 / 6 x 1,2 / 7 x 1,2 / PH0 / 2xPH1 / 2xPH2 / PH3 / PZ0 / 2xPZ1 / 2xPZ2 / PZ3 2 / HEX 3 / HEX 4 / HEX 5 / T10 / T15 / T20 / T25 |






### CARRACA PARA PUNTAS HEXAGONALES / RATCHET FOR HEXAGONAL BITS / CLIQUET POUR MÈCHES HEXAGONALES / RATSCHÉ FÜR SECHSANT-BITS / CRICCHETTO PER INSERTI ESAGONALI / ROQUETE PARA PONTAS HEXAGONAIS / ТРЕЩОТКА ДЛЯ ШЕСТИГРАННЫХ БИТ

| COD.  |  | L (mm) |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|
| 62770 | 1/4                                                                                 | 90     | 56                                                                                  |



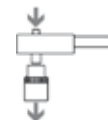
### LLAVE DE CARRACA REVERSIBLE (VASOS Y PUNTAS) / REVERSIBLE RATCHET WRENCH (SOCKETS AND BITS) / CLÉ À CLIQUET RÉVERSIBLE (DOUILLES ET EMBOUTS) / UMSCHALTKNARRE (STECKSCHLÜSSEL UND BITS) / CHIAVE A CRICCO REVERSIBILE (BUSSOLE E INSERTI) / ROQUETE REVERSIVEL (CHAVES DE CAIXA E PONTAS) / РЕВЕРСИВНАЯ ТРЕЩЕТКА (ГОЛОВКИ И БИТЫ)



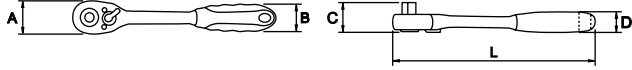
| COD.  |  | L (mm) |  | A (mm) | B (mm) | C (mm) | D (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 62620 | 1/4                                                                                 | 95     | 1/4                                                                                 | 26     | 16     | 23     | 14     | 60                                                                                  | 6                                                                                   | ●                                                                                     |

DIN 3122

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                                                                        |  |  |  |  |  |  |  |  |  |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|---|
| Reducido tamaño para lugares de difícil acceso / Small size for inaccessible places / Diminution de la dimensions pour lieux difficiles d'accès |  |  |  |  |  |  |  |  |  | ● |

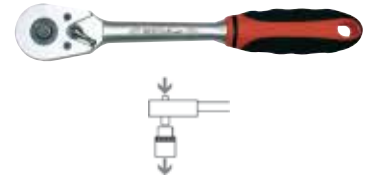


**LLAVE DE CARRACA REVERSIBLE / REVERSIBLE RATCHET HANDLE / CLÉ À CLIQUET RÉVERSIBLE / UMSCHALTKNARRE / CHIAVE A CRICCO REVERSIBILE / ROQUETE REVERSIVEL / РЕВЕРСИВНАЯ ТРЕЩЕТКА**

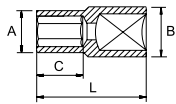


| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   |   |   |
|-------|---------|--------|--------|--------|--------|--------|-----|---|---|
| 62603 | 1/4     | 140    | 23     | 21     | 22     | 17     | 105 |   |   |
| 62604 | 3/8     | 200    | 31     | 28     | 29     | 22     | 270 | 6 | • |
| 62606 | 1/2     | 250    | 42     | 36     | 37     | 28     | 560 |   |   |

DIN 3122



**ADAPTADOR CON RETÉN DE BOLA / BALL RETAINER ADAPTER / ADAPTEUR AVEC BILLE DE RETENUE / ADAPTOR FÜR STECKSCHÜSSEL / ADATTATORE CON BLOCCO A SFERA / ADAPTADOR COM RETENTOR DE BOLA / ПЕРЕХОДНИК С УДЕРЖИВАЮЩИМ ШАРИКОМ**



| COD.  |           | L (mm) | A (mm) | B (mm) | C (mm) | g  |   |   |
|-------|-----------|--------|--------|--------|--------|----|---|---|
| 65846 | 1/4"-1/4" | 25     |        | 12     | 11     | 12 |   |   |
| 65862 | 3/8"-1/4" | 29     | 11     | 17     | 11     | 23 | 6 | • |
| 66388 | 1/2"-1/4" | 38     |        | 22     | 15     | 45 |   |   |



**PUNTA ADAPTADORA PARA VASOS DE IMPACTO / ADAPTER BIT FOR IMPACT SOCKETS / EMBOUT ADAPTEUR POUR DOUILLES À CHOC / ADAPTERBIT FÜR SCHLAGNÜSSE / INSERTO ADATTATORE PER BUSSOLE A MACCHINA / PONTA ADAPTADORA PARA CHAVES DE CAIXA DE IMPACTO / ПЕРЕХОДНИК ДЛЯ УДАРНЫХ БИТ**

| COD.  |           | L (mm) |   | g  |
|-------|-----------|--------|---|----|
| 61695 | 1/4"-1/4" |        |   | 20 |
| 61696 | 3/8"-1/4" | 65     | 6 | 26 |
| 61697 | 1/2"-1/4" | 70     |   | 46 |



**MASTERBIT**

**PLANA / FLAT / À FENTE / FLACH / PIATTA / PLANA / ПЛОСКАЯ**

**MM**

| COD.  | mm        | L (mm) | PCS |
|-------|-----------|--------|-----|
| 58227 |           |        | 1   |
| 66121 |           |        | 5   |
| 66623 | 3 x 0,5   |        | 10  |
| 55100 |           |        | 125 |
| 58180 |           |        | 1   |
| 55850 |           |        | 5   |
| 55859 | 4 x 0,5   |        | 10  |
| 55868 |           |        | 125 |
| 58228 |           |        | 1   |
| 66122 |           |        | 5   |
| 66624 | 4,5 x 0,6 |        | 10  |
| 55101 |           | 25     | 125 |
| 58229 |           |        | 1   |
| 66123 |           |        | 5   |
| 66625 | 5,5 x 0,8 |        | 10  |
| 55102 |           |        | 125 |
| 58230 |           |        | 1   |
| 66124 |           |        | 5   |
| 66626 | 5,5 x 1   |        | 10  |
| 55103 |           |        | 125 |
| 58231 |           |        | 1   |
| 66125 | 6,5 x 1,2 |        | 5   |
| 66627 |           |        | 10  |



06

**PUNTAS DE DESTORNILLADOR**  
**BITS**  
**EMBOUS DE VISSAGE**  
**BITS**  
**INSERTI**  
**PONTAS**  
**БИТЫ**



| COD.  | mm        | L (mm) | PCS |
|-------|-----------|--------|-----|
| 55104 | 6,5 x 1,2 | 25     | 125 |
| 58181 |           |        | 1   |
| 55851 | 7 x 1,2   |        | 5   |
| 55860 |           |        | 10  |
| 55869 | 125       |        |     |
| 58232 | 1         |        |     |
| 66126 | 8 x 1,6   |        | 5   |
| 66628 |           |        | 10  |
| 55105 |           |        | 125 |



## INCH

| COD.  | inch          | L (mm)       | PCS           |    |
|-------|---------------|--------------|---------------|----|
| 58189 | 1/8" x 0,02   | 25           | 1             |    |
| 55877 |               |              | 5             |    |
| 55891 |               |              | 10            |    |
| 55905 |               |              | 125           |    |
| 58190 |               |              | 1             |    |
| 55878 |               |              | 5/32" x 0,02  | 5  |
| 55892 |               |              |               | 10 |
| 55906 |               |              | 125           |    |
| 58191 |               |              | 3/16" x 0,024 | 1  |
| 55879 |               |              |               | 5  |
| 55893 | 10            |              |               |    |
| 55907 | 125           |              |               |    |
| 58192 | 7/32" x 0,032 | 1            |               |    |
| 55880 |               | 5            |               |    |
| 55894 |               | 10           |               |    |
| 55908 |               | 125          |               |    |
| 55881 |               | 7/32" x 0,04 | 5             |    |
| 58193 |               |              | 1             |    |
| 55895 |               |              | 10            |    |
| 55909 |               |              | 125           |    |
| 58194 |               | 1/4" x 0,046 | 1             |    |
| 55882 |               |              | 5             |    |
| 55896 | 10            |              |               |    |
| 55910 | 125           |              |               |    |
| 58195 | 9/32" x 0,046 | 1            |               |    |
| 55883 |               | 5            |               |    |
| 55897 |               | 10           |               |    |
| 55911 |               | 125          |               |    |
| 58196 | 5/16" x 0,063 | 1            |               |    |
| 55884 |               | 5            |               |    |
| 55898 |               | 10           |               |    |
| 55912 | 125           |              |               |    |



## MM



| COD.  | mm        | L (mm) | PCS |
|-------|-----------|--------|-----|
| 58233 | 3 x 0,5   | 50     | 1   |
| 66127 |           |        | 5   |
| 66629 |           |        | 10  |
| 55106 |           |        | 125 |
| 58234 | 3,5 x 0,6 | 1      |     |
| 66128 |           | 5      |     |
| 66630 |           | 10     |     |
| 55107 |           | 125    |     |



06



**PUNTAS DE DESTORNILLADOR**  
**BITS**  
**EMBOUS DE VISSAGE**  
**BITS**  
**INSERTI**  
**PONTAS**  
**БИТЫ**



| COD.  |  mm | L (mm) |  PCS |
|-------|--------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|
| 58235 |                                                                                      |        | 1                                                                                     |
| 66129 | 4 x 0,8                                                                              |        | 5                                                                                     |
| 66631 |                                                                                      |        | 10                                                                                    |
| 55108 |                                                                                      |        | 125                                                                                   |
| 55097 |                                                                                      |        | 5                                                                                     |
| 55098 | 4,5 x 0,6                                                                            |        | 10                                                                                    |
| 55099 |                                                                                      |        | 125                                                                                   |
| 58236 |                                                                                      |        | 1                                                                                     |
| 66130 | 5,5 x 1                                                                              | 50     | 5                                                                                     |
| 66632 |                                                                                      |        | 10                                                                                    |
| 55109 |                                                                                      |        | 125                                                                                   |
| 58237 |                                                                                      |        | 1                                                                                     |
| 66131 | 6,5 x 1,2                                                                            |        | 5                                                                                     |
| 66633 |                                                                                      |        | 10                                                                                    |
| 55110 |                                                                                      |        | 125                                                                                   |
| 58238 | 8 x 1,6                                                                              |        | 1                                                                                     |
| 66132 |                                                                                      |        | 5                                                                                     |
| 66634 |                                                                                      |        | 10                                                                                    |
| 55111 |                                                                                      |        | 125                                                                                   |





■ INCH

| COD.  |  inch | L (mm) |  PCS |
|-------|------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------|
| 58197 |                                                                                          |        | 1                                                                                       |
| 55885 | 1/8" x 0,02                                                                              |        | 5                                                                                       |
| 55899 |                                                                                          |        | 10                                                                                      |
| 55913 |                                                                                          |        | 125                                                                                     |
| 58198 |                                                                                          |        | 1                                                                                       |
| 55886 | 9/64" x 0,024                                                                            |        | 5                                                                                       |
| 55900 |                                                                                          |        | 10                                                                                      |
| 55914 |                                                                                          |        | 125                                                                                     |
| 58199 | 5/32" x 0,032                                                                            | 50     | 1                                                                                       |
| 55887 |                                                                                          |        | 5                                                                                       |
| 55901 |                                                                                          |        | 10                                                                                      |
| 55915 |                                                                                          |        | 125                                                                                     |
| 58200 | 7/32" x 0,04                                                                             |        | 1                                                                                       |
| 55888 |                                                                                          |        | 5                                                                                       |
| 55902 |                                                                                          |        | 10                                                                                      |
| 55916 | 1/4" x 0,046                                                                             |        | 125                                                                                     |
| 58201 |                                                                                          |        | 1                                                                                       |
| 55889 |                                                                                          |        | 5                                                                                       |
| 55903 |                                                                                          |        | 10                                                                                      |
| 55917 | 5/16" x 0,063                                                                            |        | 125                                                                                     |
| 58202 |                                                                                          |        | 1                                                                                       |
| 55890 |                                                                                          |        | 5                                                                                       |
| 55904 |                                                                                          |        | 10                                                                                      |
| 55918 |                                                                                          |        | 125                                                                                     |



■ PHILLIPS®\*

| COD.  |  | L (mm) |  PCS |
|-------|-------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------|
| 58239 |                                                                                     |        | 1                                                                                       |
| 66133 | PH-0                                                                                | 25     | 5                                                                                       |
| 66635 |                                                                                     |        | 10                                                                                      |
| 55112 |                                                                                     |        | 125                                                                                     |



\*Para tornillos PHILLIPS® (Marca registrada por Phillips Screw Company) / \*For screws PHILLIPS® (Phillips Screw Company registered trademark) / \*Pour vis PHILLIPS® (Marque enregistrée par Phillips Screw Company)



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**PUNTAS DE DESTORNILLADOR**  
**BITS**  
**EMBOUS DE VISSAGE**  
**BITS**  
**INSERTI**  
**PONTAS**  
**БИТЫ**



| COD.  |      | L (mm) | PCS |
|-------|------|--------|-----|
| 58240 |      |        | 1   |
| 66134 | PH-1 |        | 5   |
| 55113 |      |        | 125 |
| 58241 |      |        | 1   |
| 66135 | PH-2 | 25     | 5   |
| 55114 |      |        | 125 |
| 58242 |      |        | 1   |
| 66136 | PH-3 |        | 5   |
| 55115 |      |        | 125 |
| 58243 |      |        | 1   |
| 66137 | PH-4 | 30     | 5   |
| 66639 |      |        | 10  |
| 55116 |      |        | 125 |



1/4"

| COD.  |      | L (mm) | PCS |
|-------|------|--------|-----|
| 58273 |      |        | 1   |
| 68877 |      |        | 5   |
| 68887 | PH-0 |        | 10  |
| 55117 |      |        | 125 |
| 58274 |      |        | 1   |
| 68878 | PH-1 |        | 5   |
| 68888 |      |        | 10  |
| 55118 |      |        | 125 |
| 58275 |      |        | 1   |
| 68879 | PH-2 | 50     | 5   |
| 68889 |      |        | 10  |
| 55119 |      |        | 125 |
| 58276 |      |        | 1   |
| 68880 | PH-3 |        | 5   |
| 68890 |      |        | 10  |
| 55120 |      |        | 125 |
| 58277 |      |        | 1   |
| 68881 | PH-4 |        | 5   |
| 68891 |      |        | 10  |
| 55121 |      |        | 125 |



1/4"

POZIDRIV®\*

| COD.  |      | L (mm) | PCS |
|-------|------|--------|-----|
| 58244 |      |        | 1   |
| 66138 | PZ-0 |        | 5   |
| 66640 |      |        | 10  |
| 55122 |      |        | 125 |
| 58245 |      |        | 1   |
| 66139 | PZ-1 |        | 5   |
| 66641 |      |        | 10  |
| 55123 |      | 25     | 125 |
| 58246 |      |        | 1   |
| 66140 | PZ-2 |        | 5   |
| 66642 |      |        | 10  |
| 55124 |      |        | 125 |
| 58247 |      |        | 1   |
| 66141 | PZ-3 |        | 5   |
| 66643 |      |        | 10  |



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 \*Para tornillos POZIDRIV® (Marca registrada por European Ind. Serv. Ltd.) / \*For screws POZIDRIV® (European Ind. Serv. Ltd. registered trademark) / \*Pour vis POZIDRIV® (Marque enregistrée par European Ind. Serv. Ltd.)

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 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
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**EGA Master**  
 ART IN INNOVATION

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**PUNTAS DE DESTORNILLADOR**  
**BITS**  
**EMBOUS DE VISSAGE**  
**BITS**  
**INSERTI**  
**PONTAS**  
**БИТЫ**



| COD.  |      | L (mm) | PCS |
|-------|------|--------|-----|
| 55125 | PZ-3 | 25     | 125 |
| 58248 |      |        | 1   |
| 66142 | PZ-4 | 30     | 5   |
| 66644 |      |        | 10  |
| 55126 |      |        | 125 |



| COD.  |      | L (mm) | PCS |
|-------|------|--------|-----|
| 58278 | PZ-0 |        | 1   |
| 68882 |      |        | 5   |
| 68892 |      |        | 10  |
| 55260 |      |        | 125 |
| 58279 | PZ-1 |        | 1   |
| 68883 |      |        | 5   |
| 68893 |      |        | 10  |
| 55261 |      |        | 125 |
| 58280 | PZ-2 | 50     | 1   |
| 68884 |      |        | 5   |
| 68894 |      |        | 10  |
| 55262 |      |        | 125 |
| 58281 | PZ-3 |        | 1   |
| 68885 |      |        | 5   |
| 68895 |      |        | 10  |
| 55263 |      |        | 125 |
| 58282 | PZ-4 |        | 1   |
| 68886 |      |        | 5   |
| 68896 |      |        | 10  |
| 55264 |      |        | 125 |



**HEXAGONAL / HEXAGONAL / HEXAGONALE / HEXAGONAL / ESAGONALE / HEXAGONAL / ШЕСТИГРАННАЯ**

**MM**

| COD.  |     | L (mm) | PCS |
|-------|-----|--------|-----|
| 58249 | 1,5 |        | 1   |
| 66144 |     |        | 5   |
| 66645 |     |        | 10  |
| 55127 |     |        | 125 |
| 58250 | 2   |        | 1   |
| 66145 |     |        | 5   |
| 66646 |     |        | 10  |
| 55128 |     |        | 125 |
| 58251 | 2,5 | 25     | 1   |
| 66146 |     |        | 5   |
| 66647 |     |        | 10  |
| 55129 |     |        | 125 |
| 58252 | 3   |        | 1   |
| 66147 |     |        | 5   |
| 66648 |     |        | 10  |
| 55130 |     |        | 125 |
| 58182 | 3,5 |        | 1   |
| 55852 |     |        | 5   |
| 55861 |     |        | 10  |
| 55870 |     |        | 125 |
| 58253 | 4   |        | 1   |
| 66148 |     |        | 5   |




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**PUNTAS DE DESTORNILLADOR**  
**BITS**  
**EMBOUS DE VISSAGE**  
**BITS**  
**INSERTI**  
**PONTAS**  
**БИТЫ**





| COD.  |  mm | L (mm) |  PCS |
|-------|--------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|
| 66649 | 4                                                                                    |        | 10                                                                                    |
| 55131 |                                                                                      |        | 125                                                                                   |
| 58254 |                                                                                      |        | 1                                                                                     |
| 66149 |                                                                                      |        | 5                                                                                     |
| 66650 | 5                                                                                    |        | 10                                                                                    |
| 55132 |                                                                                      |        | 125                                                                                   |
| 58183 |                                                                                      |        | 1                                                                                     |
| 55853 |                                                                                      |        | 5                                                                                     |
| 55862 | 5,5                                                                                  |        | 10                                                                                    |
| 55871 |                                                                                      |        | 125                                                                                   |
| 58255 |                                                                                      |        | 1                                                                                     |
| 66172 |                                                                                      |        | 5                                                                                     |
| 66651 | 6                                                                                    | 25     | 10                                                                                    |
| 55133 |                                                                                      |        | 125                                                                                   |
| 58184 |                                                                                      |        | 1                                                                                     |
| 55854 |                                                                                      |        | 5                                                                                     |
| 55863 | 6,5                                                                                  |        | 10                                                                                    |
| 55872 |                                                                                      |        | 125                                                                                   |
| 58164 |                                                                                      |        | 1                                                                                     |
| 66173 |                                                                                      |        | 5                                                                                     |
| 66652 | 8                                                                                    |        | 10                                                                                    |
| 55134 |                                                                                      |        | 125                                                                                   |



1/4"

INCH

| COD.  |  inch | L (mm) |  PCS |
|-------|------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------|
| 58203 | 1/16                                                                                     |        | 1                                                                                       |
| 55919 |                                                                                          |        | 5                                                                                       |
| 55943 |                                                                                          |        | 10                                                                                      |
| 55967 |                                                                                          |        | 125                                                                                     |
| 58204 | 5/64                                                                                     |        | 1                                                                                       |
| 55920 |                                                                                          |        | 5                                                                                       |
| 55944 |                                                                                          |        | 10                                                                                      |
| 55968 |                                                                                          |        | 125                                                                                     |
| 58205 | 3/32                                                                                     | 25     | 1                                                                                       |
| 55921 |                                                                                          |        | 5                                                                                       |
| 55945 |                                                                                          |        | 10                                                                                      |
| 55969 |                                                                                          |        | 125                                                                                     |
| 58206 | 7/64                                                                                     |        | 1                                                                                       |
| 55922 |                                                                                          |        | 5                                                                                       |
| 55946 |                                                                                          |        | 10                                                                                      |
| 55970 |                                                                                          |        | 125                                                                                     |
| 58207 | 1/8                                                                                      | 25     | 1                                                                                       |
| 55923 |                                                                                          |        | 5                                                                                       |
| 55947 |                                                                                          |        | 10                                                                                      |
| 55971 |                                                                                          |        | 125                                                                                     |
| 58208 | 9/64                                                                                     |        | 1                                                                                       |
| 55924 |                                                                                          |        | 5                                                                                       |
| 55948 |                                                                                          |        | 10                                                                                      |
| 55972 |                                                                                          |        | 125                                                                                     |
| 58209 | 5/32                                                                                     |        | 1                                                                                       |
| 55925 |                                                                                          |        | 5                                                                                       |
| 55949 |                                                                                          |        | 10                                                                                      |
| 55973 |                                                                                          |        | 125                                                                                     |
| 58210 | 3/16                                                                                     |        | 1                                                                                       |
| 55926 |                                                                                          |        | 5                                                                                       |
| 55950 |                                                                                          |        | 10                                                                                      |
| 55974 |                                                                                          |        | 125                                                                                     |
| 58211 | 7/32                                                                                     |        | 1                                                                                       |
| 55927 |                                                                                          |        | 5                                                                                       |



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**PUNTAS DE DESTORNILLADOR**  
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**BITS**  
**INSERTI**  
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| COD.  | inch  | L (mm) | PCS |
|-------|-------|--------|-----|
| 55951 | 7/32  | 25     | 10  |
| 55975 |       |        | 125 |
| 58212 |       |        | 1   |
| 55928 | 15/64 |        | 5   |
| 55952 |       |        | 10  |
| 55976 |       |        | 125 |
| 58213 | 1/4   |        | 1   |
| 55929 |       |        | 5   |
| 55953 |       |        | 10  |
| 55977 | 5/16  |        | 125 |
| 58214 |       |        | 1   |
| 55930 |       |        | 5   |
| 55954 | 10    |        |     |
| 55978 | 125   |        |     |



MM

| COD.  | mm  | L (mm) | PCS |
|-------|-----|--------|-----|
| 58185 | 2   | 50     | 1   |
| 55855 |     |        | 5   |
| 55864 |     |        | 10  |
| 55873 |     |        | 125 |
| 58256 |     |        | 1   |
| 66174 | 3   |        | 5   |
| 66653 |     |        | 10  |
| 55135 |     |        | 125 |
| 58186 | 3,5 |        | 1   |
| 55856 |     |        | 5   |
| 55865 |     |        | 10  |
| 55874 |     |        | 125 |
| 58160 |     |        | 1   |
| 66175 | 4   |        | 5   |
| 66654 |     |        | 10  |
| 55136 |     | 125    |     |
| 58257 | 5   | 1      |     |
| 66176 |     | 5      |     |
| 66655 |     | 10     |     |
| 55137 |     | 125    |     |
| 58187 |     | 1      |     |
| 55857 | 5,5 | 5      |     |
| 55866 |     | 10     |     |
| 55875 |     | 125    |     |
| 58258 | 6   | 1      |     |
| 66177 |     | 5      |     |
| 66656 |     | 10     |     |
| 55138 |     | 125    |     |
| 58188 |     | 1      |     |
| 55858 | 6,5 | 5      |     |
| 55867 |     | 10     |     |
| 55876 |     | 125    |     |
| 58162 | 8   | 1      |     |
| 66178 |     | 5      |     |
| 66657 |     | 10     |     |
| 55139 | 125 |        |     |





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**PUNTAS DE DESTORNILLADOR**  
**BITS**  
**EMBOUTS DE VISSAGE**  
**BITS**  
**INSERTI**  
**PONTAS**  
**БИТЫ**





## INCH

| COD.  |  inch | L (mm) |  PCS |
|-------|----------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|
| 58215 |                                                                                        |        | 1                                                                                     |
| 55931 |                                                                                        |        | 5                                                                                     |
| 55955 | 1/16                                                                                   |        | 10                                                                                    |
| 55979 |                                                                                        |        | 125                                                                                   |
| 58216 |                                                                                        |        | 1                                                                                     |
| 55932 |                                                                                        |        | 5                                                                                     |
| 55956 | 5/64                                                                                   |        | 10                                                                                    |
| 55980 |                                                                                        |        | 125                                                                                   |
| 58217 |                                                                                        |        | 1                                                                                     |
| 55933 |                                                                                        |        | 5                                                                                     |
| 55957 | 3/32                                                                                   |        | 10                                                                                    |
| 55981 |                                                                                        |        | 125                                                                                   |
| 58218 |                                                                                        |        | 1                                                                                     |
| 55934 |                                                                                        |        | 5                                                                                     |
| 55958 | 7/64                                                                                   |        | 10                                                                                    |
| 55982 |                                                                                        |        | 125                                                                                   |
| 58219 |                                                                                        |        | 1                                                                                     |
| 55935 |                                                                                        |        | 5                                                                                     |
| 55959 | 1/8                                                                                    |        | 10                                                                                    |
| 55983 |                                                                                        |        | 125                                                                                   |
| 58220 |                                                                                        |        | 1                                                                                     |
| 55936 |                                                                                        |        | 5                                                                                     |
| 55960 | 9/64                                                                                   |        | 10                                                                                    |
| 55984 |                                                                                        |        | 125                                                                                   |
| 58221 |                                                                                        | 50     | 1                                                                                     |
| 55937 |                                                                                        |        | 5                                                                                     |
| 55961 | 5/32                                                                                   |        | 10                                                                                    |
| 55985 |                                                                                        |        | 125                                                                                   |
| 58222 |                                                                                        |        | 1                                                                                     |
| 55938 |                                                                                        |        | 5                                                                                     |
| 55962 | 3/16                                                                                   |        | 10                                                                                    |
| 55986 |                                                                                        |        | 125                                                                                   |
| 58223 |                                                                                        |        | 1                                                                                     |
| 55939 |                                                                                        |        | 5                                                                                     |
| 55963 | 7/32                                                                                   |        | 10                                                                                    |
| 55987 |                                                                                        |        | 125                                                                                   |
| 58224 |                                                                                        |        | 1                                                                                     |
| 55940 |                                                                                        |        | 5                                                                                     |
| 55964 | 15/64                                                                                  |        | 10                                                                                    |
| 55988 |                                                                                        |        | 125                                                                                   |
| 58225 |                                                                                        |        | 1                                                                                     |
| 55941 |                                                                                        |        | 5                                                                                     |
| 55965 | 1/4                                                                                    |        | 10                                                                                    |
| 55989 |                                                                                        |        | 125                                                                                   |
| 58226 |                                                                                        |        | 1                                                                                     |
| 55942 |                                                                                        |        | 5                                                                                     |
| 55966 | 5/16                                                                                   |        | 10                                                                                    |
| 55990 |                                                                                        |        | 125                                                                                   |



1/4"

**HEXAGONAL CON PUNTA DE BOLA / HEXAGONAL BALL POINT / HEXAGONALE EMBOUT SPHÉRIQUE / HEXAGONAL KUGELKOPF / ESAGONALE TESTA SFERICA / HEXAGONAL COM PONTA ESFERICA / ШЕСТИГРАННАЯ С ШАРОВОЙ ГОЛОВКОЙ**



| COD.  |  mm | L (mm) |  PCS |
|-------|----------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------|
| 58259 |                                                                                        |        | 1                                                                                       |
| 66179 |                                                                                        |        | 5                                                                                       |
| 66658 | 2                                                                                      | 50     | 10                                                                                      |
| 55140 |                                                                                        |        | 125                                                                                     |
| 58260 | 2,5                                                                                    |        | 1                                                                                       |



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**PUNTAS DE DESTORNILLADOR**  
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**EMBOUS DE VISSAGE**  
**BITS**  
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| COD.  |  mm | L (mm) |  PCS |
|-------|--------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|
| 66180 |                                                                                      |        | 5                                                                                     |
| 66659 | 2,5                                                                                  |        | 10                                                                                    |
| 55141 |                                                                                      |        | 125                                                                                   |
| 58261 |                                                                                      |        | 1                                                                                     |
| 66181 | 3                                                                                    |        | 5                                                                                     |
| 66660 |                                                                                      |        | 10                                                                                    |
| 55142 |                                                                                      |        | 125                                                                                   |
| 58262 |                                                                                      |        | 1                                                                                     |
| 66182 | 4                                                                                    |        | 5                                                                                     |
| 66661 |                                                                                      | 50     | 10                                                                                    |
| 55143 |                                                                                      |        | 125                                                                                   |
| 58263 |                                                                                      |        | 1                                                                                     |
| 66183 | 5                                                                                    |        | 5                                                                                     |
| 66662 |                                                                                      |        | 10                                                                                    |
| 55144 |                                                                                      |        | 125                                                                                   |
| 58264 |                                                                                      |        | 1                                                                                     |
| 66184 | 6                                                                                    |        | 5                                                                                     |
| 66663 |                                                                                      |        | 10                                                                                    |
| 55145 |                                                                                      |        | 125                                                                                   |





**ROBERTSON**

| COD.  |  mm | L (mm) |  PCS |
|-------|----------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------|
| 58343 |                                                                                        |        | 1                                                                                       |
| 66384 | S1                                                                                     |        | 5                                                                                       |
| 66690 |                                                                                        |        | 10                                                                                      |
| 55146 |                                                                                        |        | 125                                                                                     |
| 58344 |                                                                                        |        | 1                                                                                       |
| 66385 | S2                                                                                     |        | 5                                                                                       |
| 66691 |                                                                                        |        | 10                                                                                      |
| 55147 |                                                                                        | 25     | 125                                                                                     |
| 58345 |                                                                                        |        | 1                                                                                       |
| 66386 | S3                                                                                     |        | 5                                                                                       |
| 66692 |                                                                                        |        | 10                                                                                      |
| 55148 |                                                                                        |        | 125                                                                                     |
| 58346 |                                                                                        |        | 1                                                                                       |
| 66387 | S4                                                                                     |        | 5                                                                                       |
| 66693 |                                                                                        |        | 10                                                                                      |
| 55149 |                                                                                        |        | 125                                                                                     |



**TORX®\***

| COD.  |  mm | L (mm) |  PCS |
|-------|----------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------|
| 58265 |                                                                                        |        | 1                                                                                       |
| 66185 | T-5                                                                                    |        | 5                                                                                       |
| 66664 |                                                                                        |        | 10                                                                                      |
| 55150 |                                                                                        |        | 125                                                                                     |
| 58266 |                                                                                        |        | 1                                                                                       |
| 66186 | T-6                                                                                    | 25     | 5                                                                                       |
| 66665 |                                                                                        |        | 10                                                                                      |
| 55151 |                                                                                        |        | 125                                                                                     |
| 58267 |                                                                                        |        | 1                                                                                       |
| 66187 | T-7                                                                                    |        | 5                                                                                       |
| 66666 |                                                                                        |        | 10                                                                                      |



\* Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)

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**PUNTAS DE DESTORNILLADOR**  
**BITS**  
**EMBOUS DE VISSAGE**  
**BITS**  
**INSERTI**  
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| COD.  |      | L (mm) | PCS |
|-------|------|--------|-----|
| 55152 | T-7  |        | 125 |
| 58268 |      |        | 1   |
| 66188 |      |        | 5   |
| 66667 | T-8  |        | 10  |
| 55153 |      |        | 125 |
| 58269 |      |        | 1   |
| 66189 |      |        | 5   |
| 66668 | T-9  |        | 10  |
| 55154 |      |        | 125 |
| 58159 |      |        | 1   |
| 66190 |      |        | 5   |
| 66669 | T-10 |        | 10  |
| 55155 |      |        | 125 |
| 58270 |      |        | 1   |
| 66191 |      |        | 5   |
| 66670 | T-15 |        | 10  |
| 55156 |      |        | 125 |
| 58156 |      |        | 1   |
| 66192 |      | 25     | 5   |
| 66671 | T-20 |        | 10  |
| 55157 |      |        | 125 |
| 58165 |      |        | 1   |
| 66193 |      |        | 5   |
| 66672 | T-25 |        | 10  |
| 55158 |      |        | 125 |
| 58271 |      |        | 1   |
| 66194 |      |        | 5   |
| 66673 | T-27 |        | 10  |
| 55159 |      |        | 125 |
| 58155 |      |        | 1   |
| 66195 |      |        | 5   |
| 66674 | T-30 |        | 10  |
| 55160 |      |        | 125 |
| 58272 |      |        | 1   |
| 66196 |      |        | 5   |
| 66675 | T-40 |        | 10  |
| 55161 |      |        | 125 |

1/4"

| COD.  |      | L (mm) | PCS |
|-------|------|--------|-----|
| 58161 |      |        | 1   |
| 66241 |      |        | 5   |
| 66676 | T-10 |        | 10  |
| 55162 |      |        | 125 |
| 58158 |      |        | 1   |
| 66242 |      |        | 5   |
| 66677 | T-15 |        | 10  |
| 55163 |      |        | 125 |
| 58283 |      | 50     | 1   |
| 66243 |      |        | 5   |
| 66678 | T-20 |        | 10  |
| 55164 |      |        | 125 |
| 58284 |      |        | 1   |
| 66244 |      |        | 5   |
| 66679 | T-25 |        | 10  |
| 55165 |      |        | 125 |
| 58285 | T-27 |        | 1   |



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**EGA Master**  
 ART IN INNOVATION

06

**PUNTAS DE DESTORNILLADOR**  
**BITS**  
**EMBOUS DE VISSAGE**  
**BITS**  
**INSERTI**  
**PONTAS**  
**БИТЫ**



| COD.  |      | L (mm) | PCS |
|-------|------|--------|-----|
| 66245 |      |        | 5   |
| 66680 | T-27 |        | 10  |
| 55166 |      |        | 125 |
| 58286 |      |        | 1   |
| 66246 | T-30 | 50     | 5   |
| 66681 |      |        | 10  |
| 55167 |      |        | 125 |
| 58287 |      |        | 1   |
| 66247 | T-40 |        | 5   |
| 66682 |      |        | 10  |
| 55168 |      |        | 125 |

1/4"

#### TAMPER TORX

| COD.  |       | L (mm) | PCS |
|-------|-------|--------|-----|
| 58288 |       |        | 1   |
| 66392 | TT-10 |        | 5   |
| 66683 |       |        | 10  |
| 55169 |       |        | 125 |
| 58289 |       |        | 1   |
| 66393 | TT-15 |        | 5   |
| 66684 |       |        | 10  |
| 55170 |       |        | 125 |
| 58290 |       |        | 1   |
| 66394 | TT-20 |        | 5   |
| 66685 |       |        | 10  |
| 55171 |       |        | 125 |
| 58157 |       |        | 1   |
| 66395 | TT-25 | 25     | 5   |
| 66686 |       |        | 10  |
| 55172 |       |        | 125 |
| 58291 |       |        | 1   |
| 66396 | TT-27 |        | 5   |
| 66687 |       |        | 10  |
| 55173 |       |        | 125 |
| 58292 |       |        | 1   |
| 66397 | TT-30 |        | 5   |
| 66688 |       |        | 10  |
| 55174 |       |        | 125 |
| 58293 |       |        | 1   |
| 66398 | TT-40 |        | 5   |
| 66689 |       |        | 10  |
| 55175 |       |        | 125 |

1/4"



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**БИТЫ**



#### MAGNETIC STECKER

| COD.  | mm  | L (mm) | g  |    |   |
|-------|-----|--------|----|----|---|
| 57575 | 5   |        |    |    | - |
| 66269 | 5,5 |        |    |    | • |
| 57576 | 6   |        |    |    | - |
| 66270 | 7   | 65     | 35 | 10 |   |
| 66271 | 8   |        |    |    | • |
| 66279 | 10  |        |    |    | • |
| 66280 | 13  |        |    |    |   |



| COD.  | mm | L (mm) | g  |    |   |
|-------|----|--------|----|----|---|
| 66357 | 10 | 100    | 50 | 10 | • |



#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Con muelle de ajuste interno / With internal adjusting spring / Avec ressort de réglage

#### XZN

| COD.  |     | L (mm) | PCS |
|-------|-----|--------|-----|
| 58294 |     |        | 1   |
| 66966 |     |        | 5   |
| 66971 | M4  |        | 10  |
| 55176 |     |        | 125 |
| 58295 |     |        | 1   |
| 66967 | M5  |        | 5   |
| 66972 |     |        | 10  |
| 55177 |     |        | 125 |
| 58163 |     |        | 1   |
| 66968 | M6  | 25     | 5   |
| 66973 |     |        | 10  |
| 55178 |     |        | 125 |
| 58296 |     |        | 1   |
| 66969 | M8  |        | 5   |
| 66974 |     |        | 10  |
| 55179 |     |        | 125 |
| 58297 |     |        | 1   |
| 66970 | M10 |        | 5   |
| 66975 |     |        | 10  |
| 55180 |     |        | 125 |



#### SPANNER

| COD.  |   | L (mm) | PCS |
|-------|---|--------|-----|
| 58298 |   |        | 1   |
| 66958 |   |        | 5   |
| 66962 | 4 |        | 10  |
| 55181 |   |        | 125 |
| 58299 |   |        | 1   |
| 66959 | 6 | 25     | 5   |
| 66963 |   |        | 10  |
| 55182 |   |        | 125 |
| 58300 |   |        | 1   |
| 66960 | 8 |        | 5   |
| 66964 |   |        | 10  |
| 55183 |   |        | 125 |



06

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**EMBOUS DE VISSAGE**  
**BITS**  
**INSERTI**  
**PONTAS**  
**БИТЫ**



| COD.  |    | L (mm) | PCS |
|-------|----|--------|-----|
| 58301 |    |        | 1   |
| 66961 | 10 | 25     | 5   |
| 55184 |    |        | 125 |



**TRI-WING\*\***

| COD.  |   | L (mm) | PCS |
|-------|---|--------|-----|
| 58302 |   |        | 1   |
| 66982 | 1 |        | 5   |
| 66986 |   |        | 10  |
| 55185 |   |        | 125 |
| 58303 |   |        | 1   |
| 66983 | 2 |        | 5   |
| 66987 |   |        | 10  |
| 55186 |   | 25     | 125 |
| 58304 |   |        | 1   |
| 66984 | 3 |        | 5   |
| 66988 |   |        | 10  |
| 55187 |   |        | 125 |
| 58305 |   |        | 1   |
| 66985 | 4 |        | 5   |
| 66989 |   |        | 10  |
| 55188 |   |        | 125 |



**TORQ-SET\*\***

**MM**

| COD.  |    | L (mm) | PCS |
|-------|----|--------|-----|
| 58306 |    |        | 1   |
| 66976 | 6  |        | 5   |
| 66979 |    |        | 10  |
| 55189 |    |        | 125 |
| 58307 |    |        | 1   |
| 66977 | 8  | 25     | 5   |
| 66980 |    |        | 10  |
| 55190 |    |        | 125 |
| 58308 |    |        | 1   |
| 66978 | 10 |        | 5   |
| 66981 |    |        | 10  |
| 55191 |    |        | 125 |



**INCH**

| COD.  |     | L (mm) | PCS |
|-------|-----|--------|-----|
| 58359 |     |        | 1   |
| 67628 | 1/4 | 25     | 5   |
| 67638 |     |        | 10  |
| 67639 |     |        | 125 |



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INSERTI  
PONTAS  
БИТЫ



## MASTERBIT TORSION



### PLANA / FLAT / À FENTE / FLACH / PIATTA / PLANA / ПЛОСКАЯ

| COD.  |  | L (mm) |  PCS |
|-------|-----------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|
| 58309 | 4 x 0,5                                                                           |        | 1                                                                                     |
| 66533 |                                                                                   |        | 5                                                                                     |
| 66694 |                                                                                   |        | 10                                                                                    |
| 55192 |                                                                                   |        | 125                                                                                   |
| 58310 |                                                                                   |        | 1                                                                                     |
| 66534 | 4,5 x 0,6                                                                         |        | 5                                                                                     |
| 66695 |                                                                                   |        | 10                                                                                    |
| 55193 |                                                                                   |        | 125                                                                                   |
| 58311 | 5,5 x 0,8                                                                         | 25     | 1                                                                                     |
| 66535 |                                                                                   |        | 5                                                                                     |
| 66696 |                                                                                   |        | 10                                                                                    |
| 55194 |                                                                                   |        | 125                                                                                   |
| 58312 | 5,5 x 1                                                                           |        | 1                                                                                     |
| 66536 |                                                                                   |        | 5                                                                                     |
| 66697 |                                                                                   |        | 10                                                                                    |
| 55195 |                                                                                   |        | 125                                                                                   |
| 58313 |                                                                                   |        | 6,5 x 1,2                                                                             |
| 66537 | 5                                                                                 |        |                                                                                       |
| 66698 | 10                                                                                |        |                                                                                       |
| 55196 |                                                                                   |        | 125                                                                                   |



1/4"

### PHILLIPS®\*

| COD.  |  | L (mm) |  PCS |
|-------|-------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------|
| 58314 | PH-1                                                                                |        | 1                                                                                       |
| 66522 |                                                                                     |        | 5                                                                                       |
| 66699 |                                                                                     |        | 10                                                                                      |
| 55197 |                                                                                     |        | 125                                                                                     |
| 58315 | PH-2                                                                                | 25     | 1                                                                                       |
| 66523 |                                                                                     |        | 5                                                                                       |
| 66700 |                                                                                     |        | 10                                                                                      |
| 55198 | PH-3                                                                                |        | 125                                                                                     |
| 58316 |                                                                                     |        | 1                                                                                       |
| 66524 |                                                                                     |        | 5                                                                                       |
| 66701 |                                                                                     |        | 10                                                                                      |
| 55199 |                                                                                     |        | 125                                                                                     |



1/4"

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**PUNTAS DE DESTORNILLADOR**  
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**BITS**  
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**PONTAS**  
**БИТЫ**



■ **POZIDRIV®\***

| COD.  |      | L (mm) | PCS |
|-------|------|--------|-----|
| 58317 | PZ-1 | 25     | 1   |
| 66543 |      |        | 5   |
| 66702 |      |        | 10  |
| 55200 |      |        | 125 |
| 58318 |      |        | 1   |
| 66544 | PZ-2 | 25     | 5   |
| 66703 |      |        | 10  |
| 55201 |      |        | 125 |
| 58319 | PZ-3 | 25     | 1   |
| 66545 |      |        | 5   |
| 66704 |      |        | 10  |
| 55202 |      |        | 125 |



1/4"

■ **TORX®\***

| COD.  |     | L (mm) | PCS |
|-------|-----|--------|-----|
| 58320 | T5  | 25     | 1   |
| 55227 |     |        | 5   |
| 55238 |     |        | 10  |
| 55249 |     |        | 125 |
| 58321 |     |        | 1   |
| 55228 | T6  | 25     | 5   |
| 55239 |     |        | 10  |
| 55250 |     |        | 125 |
| 58322 | T7  | 25     | 1   |
| 55229 |     |        | 5   |
| 55240 |     |        | 10  |
| 55251 |     |        | 125 |
| 58323 | T8  | 25     | 1   |
| 55230 |     |        | 5   |
| 55241 |     |        | 10  |
| 55252 |     |        | 125 |
| 58324 |     |        | 1   |
| 55231 | T9  | 25     | 5   |
| 55242 |     |        | 10  |
| 55253 |     |        | 125 |
| 58325 | T10 | 25     | 1   |
| 55232 |     |        | 5   |
| 55243 |     |        | 10  |
| 55254 |     |        | 125 |
| 58326 |     |        | 1   |
| 55233 | T15 | 25     | 5   |
| 55244 |     |        | 10  |
| 55255 |     |        | 125 |
| 58327 | T20 | 25     | 1   |
| 55234 |     |        | 5   |
| 55245 |     |        | 10  |
| 55256 |     |        | 125 |
| 58328 | T25 | 25     | 1   |
| 55235 |     |        | 5   |
| 55246 |     |        | 10  |
| 55257 |     |        | 125 |
| 58329 | T27 | 25     | 1   |
| 55236 |     |        | 5   |
| 55247 |     |        | 10  |



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PUNTAS DE DESTORNILLADOR  
BITS  
EMBOUS DE VISSAGE  
BITS  
INSERTI  
PONTAS  
БИТЫ



| COD.  |     | L (mm) | PCS |
|-------|-----|--------|-----|
| 55258 | T27 | 25     | 125 |
| 58330 |     |        | 1   |
| 55237 | T30 |        | 5   |
| 55248 |     |        | 10  |
| 55259 |     |        | 125 |



1/4"

#### TAMPER TORX

| COD.  |      | L (mm) | PCS |
|-------|------|--------|-----|
| 57565 | TT10 | 25     | 5   |
| 57566 | TT15 |        |     |
| 57567 | TT20 |        |     |
| 57568 | TT25 |        |     |
| 57569 | TT27 |        |     |
| 57570 | TT30 |        |     |
| 57571 | TT40 |        |     |



1/4"

#### MASTERBIT NON-SLIP

#### PHILLIPS®\*

| COD.  |      | L (mm) | PCS |
|-------|------|--------|-----|
| 58331 | PH-1 | 25     | 1   |
| 66546 |      |        | 5   |
| 66705 |      |        | 10  |
| 55203 |      |        | 125 |
| 58332 |      |        | 1   |
| 66547 | PH-2 | 25     | 5   |
| 66706 |      |        | 10  |
| 55204 |      |        | 125 |
| 58333 |      |        | 1   |
| 66548 | PH-3 | 25     | 5   |
| 66707 |      |        | 10  |
| 55205 |      |        | 125 |



1/4"

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### POZIDRIV®\*

| COD.  |      | L (mm) | PCS |
|-------|------|--------|-----|
| 58334 | PZ-1 | 25     | 1   |
| 66568 |      |        | 5   |
| 66708 |      |        | 10  |
| 55206 |      |        | 125 |
| 58335 |      |        | 1   |
| 66569 | PZ-2 | 25     | 5   |
| 66709 |      |        | 10  |
| 55207 |      |        | 125 |
| 58336 | PZ-3 | 25     | 1   |
| 66570 |      |        | 5   |
| 66710 |      |        | 10  |
| 55208 |      |        | 125 |



### MASTERBIT TIN

#### PHILLIPS®\*

| COD.  |      | L (mm) | PCS |
|-------|------|--------|-----|
| 58347 | PH-1 | 25     | 1   |
| 66605 |      |        | 5   |
| 66711 |      |        | 10  |
| 55209 |      |        | 125 |
| 58348 |      |        | 1   |
| 66606 | PH-2 | 25     | 5   |
| 66712 |      |        | 10  |
| 55210 |      |        | 125 |
| 58349 | PH-3 | 25     | 1   |
| 66607 |      |        | 5   |
| 66713 |      |        | 10  |
| 55211 |      |        | 125 |



| COD.  |      | L (mm) | PCS |
|-------|------|--------|-----|
| 58350 | PH-1 | 50     | 1   |
| 66608 |      |        | 5   |
| 66714 |      |        | 10  |
| 55212 |      |        | 125 |
| 58351 |      |        | 1   |
| 66609 | PH-2 | 50     | 5   |
| 66715 |      |        | 10  |
| 55213 |      |        | 125 |
| 58352 | PH-3 | 50     | 1   |
| 66610 |      |        | 5   |
| 66716 |      |        | 10  |
| 55214 |      |        | 125 |



### POZIDRIV®\*

| COD.  |      | L (mm) | PCS |
|-------|------|--------|-----|
| 58353 | PZ-1 | 25     | 1   |
| 66611 |      |        | 5   |
| 66717 |      |        | 10  |



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| COD.  |      | L (mm) | PCS |
|-------|------|--------|-----|
| 55215 | PZ-1 | 25     | 125 |
| 58354 |      |        | 1   |
| 66612 |      |        | 5   |
| 66718 |      |        | 10  |
| 55216 | PZ-2 | 25     | 125 |
| 58355 |      |        | 1   |
| 66613 |      |        | 5   |
| 66719 | PZ-3 | 25     | 10  |
| 55217 |      |        | 125 |

1/4"

| COD.  |      | L (mm) | PCS |
|-------|------|--------|-----|
| 58356 | PZ-1 | 50     | 1   |
| 66614 |      |        | 5   |
| 66720 |      |        | 10  |
| 55218 |      |        | 125 |
| 58357 | PZ-2 | 50     | 1   |
| 66615 |      |        | 5   |
| 66721 |      |        | 10  |
| 55219 | PZ-3 | 50     | 125 |
| 58358 |      |        | 1   |
| 66616 | PZ-3 | 50     | 5   |
| 66722 |      |        | 10  |
| 55220 |      |        | 125 |

1/4"

TORX®

| COD.  |      | L (mm) | PCS |
|-------|------|--------|-----|
| 58337 | T-10 | 25     | 1   |
| 66617 |      |        | 5   |
| 66723 |      |        | 10  |
| 55221 |      |        | 125 |
| 58338 | T-15 | 25     | 1   |
| 66618 |      |        | 5   |
| 66724 |      |        | 10  |
| 55222 | T-20 | 25     | 125 |
| 58339 |      |        | 1   |
| 66619 | T-25 | 25     | 5   |
| 66725 |      |        | 10  |
| 55223 |      |        | 125 |
| 58340 | T-30 | 25     | 1   |
| 66620 |      |        | 5   |
| 66726 | T-40 | 25     | 10  |
| 55224 |      |        | 125 |
| 58341 |      |        | 1   |
| 66621 | T-30 | 25     | 5   |
| 66727 |      |        | 10  |
| 55225 | T-40 | 25     | 125 |
| 58342 |      |        | 1   |
| 66622 |      |        | 5   |
| 66728 | T-40 | 25     | 10  |
| 55226 |      |        | 125 |






1/4"



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
**INOX**

| COD.         |  |  | L (mm) |  |  |  |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>66261</b> |                                                                                   |                                                                                   | 60     | 20                                                                                | 10                                                                                |                                                                                     |
| <b>55709</b> | 1/4                                                                               | 1/4                                                                               | 150    | 50                                                                                | 8                                                                                 | ●                                                                                   |








**INOX**

**TIPO "PULL" / "PULL" TYPE / TYPE "À TIRER" / PULL TYP / TIPO "PULL" / TIPO "PULL" / ТИП «ПУЛЛ»**

| COD.         |  |  | L (mm) |  |  |  |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>66262</b> | 1/4                                                                               | 1/4                                                                               | 60     | 30                                                                                | 10                                                                                | ●                                                                                   |








**TIPO "PUSH" / "PUSH" TYPE / TYPE "À POUSSER" / PUSH TYP / TIPO "PUSH" / TIPO "PUSH" / ТИП «ПУШ»**

| COD.         |  |  | L (mm) |  |  |  |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>66263</b> | 1/4                                                                               | 1/4                                                                               | 60     | 30                                                                                | 10                                                                                | ●                                                                                   |






**AUTOMÁTICO TIPO "PULL" / AUTOMATIC "PULL" TYPE / AUTOMATIQUE TYPE "À TIRER" / AUTOMATISCH PULL TYP / TIPO "PULL" AUTOMATICO / AUTOMÁTICO TIPO "PULL" / АВТОМАТИЧЕСКИЙ «ПУЛЛ» ТИП**




| COD.         |  |  | L (mm) |  |  |  |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>66264</b> | 1/4                                                                                 | 1/4                                                                                 | 75     | 35                                                                                  | 10                                                                                  | ●                                                                                     |



**SET**





| COD.         | PCS. | Composición / Composition / Composition                                                                                                                                                                                                      |  |  |  |
|--------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>66941</b> |      | PH1 (6) - PH2 (10) - PH3 (4) - PZ1 (4) - PZ2 (6) - PZ3 (2)                                                                                                                                                                                   |                                                                                     |                                                                                      |                                                                                       |
| <b>66942</b> | 33   | PH1 (2) - PH2 (2) - PH3 (1) - PZ1 (2) - PZ2 (2) - PZ3 (1) - T10 (1) - T15 (1) - T20 (1) - T25 (1) - T27 (1) - T30 (1) - T40 (1) - 4,5 x 0,6 (2) - 5,5 x 0,8 (2) - 6,5 x 1,2 (2) - 8 x 1,6 (2) mm - HEX3 (2) - HEX4 (2) - HEX5 (2) - HEX6 (1) | 66261                                                                               | 250                                                                                  | 1                                                                                     |
| <b>66943</b> |      | T5 (2) - T6 (3) - T7 (3) - T8 (3) - T9 (3) - T10 (3) - T15 (3) - T20 (3) - T25 (3) - T27 (2) - T30 (2) - T40 (2)                                                                                                                             |                                                                                     |                                                                                      |                                                                                       |



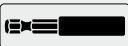



| COD.         | PCS. | Composición / Composition / Composition                                                                                                                                                                                                                                                                                                          |  |  |  |
|--------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>66944</b> |      | 3 x 0,5 (1) - 4,5 x 0,6 (1) - 5,5 x 0,8 (1) - 5,5 x 1 (1) - 6,5 x 1,2 (1) - 8 x 1,6 (1) mm - HEX1,5 (1) - HEX2 (1) - HEX3 (1) - HEX4 (1) - HEX5 (1) - HEX6 (1) - HEX7 (1) - HEX8 (1) - T6 (1) - T7 (1) - T8 (1) - T9 (1) - T10 (1) - T15 (1) - T20 (1) - T25 (1) - T27 (1) - T30 (1) - PH1 (1) - PH2 (1) - PH3 (1) - PZ1 (1) - PZ2 (1) - PZ3 (1) |                                                                                     |                                                                                      |                                                                                       |
| <b>66945</b> | 31   | PH0 (2) - PH1 (4) - PH2 (6) - PH3 (4) - PH4 (2) - PZ0 (1) - PZ1 (3) - PZ2 (4) - PZ3 (3) - PZ4 (1)                                                                                                                                                                                                                                                | 66262                                                                               | 240                                                                                  | 1                                                                                     |
| <b>66946</b> |      | T5 (2) - T6 (3) - T7 (3) - T8 (3) - T9 (3) - T10 (3) - T15 (3) - T20 (2) - T25 (2) - T27 (2) - T30 (2) - T40 (2)                                                                                                                                                                                                                                 |                                                                                     |                                                                                      |                                                                                       |
| <b>66947</b> |      | PH1 (3) - PH2 (3) - PH3 (3) - PZ1 (3) - PZ2 (3) - PZ3 (3) - T10 (2) - T15 (2) - T20 (2) - T25 (2) - T30 (2) - T40 (2)                                                                                                                                                                                                                            |                                                                                     |                                                                                      |                                                                                       |







| COD.  | PCS. | Composición / Composition / Composition                                                    |  |  |  |   |
|-------|------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|
| 66948 | 10   | 5,5 x 1 (1) - 6,5 x 1,2 (1) mm - PH1 (1) - PH2 (2) - PH3 (1) - PZ1 (1) - PZ2 (1) - PZ3 (1) |  | 66261                                                                             | 120                                                                                 | 1 |
| 66949 |      | T7 (1) - T8 (1) - T9 (1) - T10 (1) - T15 (1) - T20 (1) - T25 (1) - T27 (1) - T30 (1)       |                                                                                   |                                                                                   |                                                                                     |   |
| 66950 |      | PH1 (1) - PH2 (1) - PH3 (1) - PZ1 (1) - PZ2 (1) - PZ3 (1) - T15 (1) - T20 (1) - T30 (1)    |                                                                                   |                                                                                   |                                                                                     |   |
| 66951 |      | PH1 (2) - PH2 (2) - PH3 (2) - PZ1 (1) - PZ2 (1) - PZ3 (1)                                  |                                                                                   |                                                                                   |                                                                                     |   |
| 66952 |      | PH1 (2) - PH2 (2) - PH3 (2) - PZ1 (1) - PZ2 (1) - PZ3 (1)                                  |                                                                                   |                                                                                   |                                                                                     |   |



| COD.  | PCS. | Composición / Composition / Composition                                                                                                |  |  |  |   |
|-------|------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|
| 66953 | 9    | PH1 (1) - PH2 (1) - PH3 (1) - PZ1 (1) - PZ2 (1) - PZ3 (1) - 4 x 0,8 (1) (50 mm) - 5,5 x 1 (1) (50 mm) mm                               |  | 66261                                                                             | 140                                                                                 | 1 |
| 66954 |      | 3 x 0,5 (1) - 4,5 x 0,6 (1) - 5,5 x 0,8 (1) - 5,5 x 1 (1) - 6,5 x 1,2 (1) - 8 x 1,6 (1) - 4 x 0,8 (1) (50 mm) - 5,5 x 1 (1) (50 mm) mm |                                                                                   |                                                                                   |                                                                                     |   |
| 66955 |      | T6 (1) - T7 (1) - T8 (1) - T9 (1) - T10 (1) - T15 (1) - T20 (1) (50 mm) - T25 (1) (50 mm)                                              |                                                                                   |                                                                                   |                                                                                     |   |
| 66956 |      | PH1 (1) - PH2 (1) - PH3 (1) - PZ1 (1) - PZ2 (1) - PZ3 (1) - PH2 (1) (50 mm) - PZ2 (1) (50 mm)                                          |                                                                                   |                                                                                   |                                                                                     |   |



| COD.  | PCS. |  |  |
|-------|------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 56069 | 35   | 750                                                                                | 1                                                                                  |

| PCS. | Composición / Composition / Composition | Descripción / Description / Description             |
|------|-----------------------------------------|-----------------------------------------------------|
| 1    | 66732                                   | Destornillador portavasos / Socket holder           |
| 1    | 65846                                   | Adaptador con retén de bola / Ball retainer adapter |
| 33   | 66942                                   | Set puntas / Bits set                               |



# EGMA Master

## ART IN INNOVATION

■ **EXPOSITORES / DISPLAYS / PRESENTOIRS / DISPLAY / ESPOSITORI / DISPLAY STAND / СТЕНДЫ**



| COD.  |           |                      |
|-------|-----------|----------------------|
| 55645 |           |                      |
| PCS.  | COD. PCS. |                      |
| 14    | 66121     | 3 x 0,5 mm - 25 mm   |
|       | 66122     | 4,5 x 0,6 mm - 25 mm |
|       | 66124     | 5,5 x 1 mm - 25 mm   |
|       | 66125     | 6,5 x 1,2 mm - 25 mm |
|       | 66126     | 8 x 1,6 mm - 25 mm   |
|       | 66133     | PH-0 - 25 mm         |
|       | 66134     | PH-1 - 25 mm         |
|       | 66135     | PH-2 - 25 mm         |
|       | 66136     | PH-3 - 25 mm         |
|       | 66137     | PH-4 - 30 mm         |



5

| COD.  |           |                   |
|-------|-----------|-------------------|
| 55646 |           |                   |
| PCS.  | COD. PCS. |                   |
| 14    | 66138     | PZ-0 - 25 mm      |
|       | 66139     | PZ-1 - 25 mm      |
|       | 66140     | PZ-2 - 25 mm      |
|       | 66141     | PZ-3 - 25 mm      |
|       | 66142     | PZ-4 - 30 mm      |
|       | 66147     | HEX. 3 mm - 25 mm |
|       | 66148     | HEX. 4 mm - 25 mm |
|       | 66149     | HEX. 5 mm - 25 mm |
|       | 66172     | HEX. 6 mm - 25 mm |
|       | 66173     | HEX. 8 mm - 25 mm |



5

| COD.  |           |                      |
|-------|-----------|----------------------|
| 55647 |           |                      |
| PCS.  | COD. PCS. |                      |
| 12    | 66127     | 3 x 0,5 mm - 50 mm   |
|       | 66129     | 4 x 0,8 mm - 50 mm   |
|       | 66130     | 5,5 x 1 mm - 50 mm   |
|       | 66131     | 6,5 x 1,2 mm - 50 mm |
|       | 66132     | 8 x 1,6 mm - 50 mm   |
|       | 68877     | PH-0 - 50 mm         |
|       | 68878     | PH-1 - 50 mm         |
|       | 68879     | PH-2 - 50 mm         |
|       | 68880     | PH-3 - 50 mm         |
|       | 68881     | PH-4 - 50 mm         |





5

| COD.  |           |                   |
|-------|-----------|-------------------|
| 55648 |           |                   |
| PCS.  | COD. PCS. |                   |
| 12    | 68882     | PZ-0 - 50 mm      |
|       | 68883     | PZ-1 - 50 mm      |
|       | 68884     | PZ-2 - 50 mm      |
|       | 68885     | PZ-3 - 50 mm      |
|       | 68886     | PZ-4 - 50 mm      |
|       | 66174     | HEX. 3 mm - 50 mm |
|       | 66175     | HEX. 4 mm - 50 mm |
|       | 66176     | HEX. 5 mm - 50 mm |
|       | 66177     | HEX. 6 mm - 50 mm |
|       | 66178     | HEX. 8 mm - 50 mm |








5

| COD.             |      |                 |                   |
|------------------|------|--------------------------------------------------------------------------------------------------|-------------------|
| <b>55649</b>     |      | Bandejas / Trays / Plateaux 4                                                                    |                   |
| N.º / No. / Nro. | PCS. | COD. PCS.  PCS |                   |
| 1                | 14   | 66121                                                                                            | 3 x 0,5 - 25 mm   |
|                  |      | 66122                                                                                            | 4,5 x 0,6 - 25 mm |
|                  |      | 66124                                                                                            | 5,5 x 1 - 25 mm   |
|                  |      | 66125                                                                                            | 6,5 x 1,2 - 25 mm |
|                  |      | 66126                                                                                            | 8 x 1,6 - 25 mm   |
|                  |      | 66133                                                                                            | PH-0 - 25 mm      |
|                  |      | 66134                                                                                            | PH-1 - 25 mm      |
|                  |      | 66135                                                                                            | PH-2 - 25 mm      |
|                  |      | 66136                                                                                            | PH-3 - 25 mm      |
|                  |      | 66137                                                                                            | PH-4 - 30 mm      |
|                  |      | 66138                                                                                            | PZ-0 - 25 mm      |
|                  |      | 66139                                                                                            | PZ-1 - 25 mm      |
|                  |      | 66140                                                                                            | PZ-2 - 25 mm      |
|                  |      | 66141                                                                                            | PZ-3 - 25 mm      |
| 2                | 14   | 66142                                                                                            | PZ-4 - 30 mm      |
|                  |      | 66147                                                                                            | HEX. 3 mm - 25 mm |
|                  |      | 66148                                                                                            | HEX. 4 mm - 25 mm |
|                  |      | 66149                                                                                            | HEX. 5 mm - 25 mm |
|                  |      | 66172                                                                                            | HEX. 6 mm - 25 mm |
|                  |      | 66173                                                                                            | HEX. 8 mm - 25 mm |
|                  |      | 66127                                                                                            | 3 X 0,5 - 50 mm   |
|                  |      | 66129                                                                                            | 4 X 0,8 - 50 mm   |
| 3                | 12   | 66130                                                                                            | 5,5 X 1 - 50 mm   |
|                  |      | 66131                                                                                            | 6,5 X 1,2 - 50 mm |
|                  |      | 66132                                                                                            | 8 X 1,6 - 50 mm   |
|                  |      | 68877                                                                                            | PH-0 - 50 mm      |
|                  |      | 68878                                                                                            | PH-1 - 50 mm      |
|                  |      | 68879                                                                                            | PH-2 - 50 mm      |
|                  |      | 68880                                                                                            | PH-3 - 50 mm      |
|                  |      | 68881                                                                                            | PH-4 - 50 mm      |
|                  |      | 68882                                                                                            | PZ-0 - 50 mm      |
|                  |      | 68883                                                                                            | PZ-1 - 50 mm      |
|                  |      | 68884                                                                                            | PZ-2 - 50 mm      |
|                  |      | 68885                                                                                            | PZ-3 - 50 mm      |
| 4                | 12   | 68886                                                                                            | PZ-4 - 50 mm      |
|                  |      | 66174                                                                                            | HEX. 3 mm - 50 mm |
|                  |      | 66175                                                                                            | HEX. 4 mm - 50 mm |
|                  |      | 66176                                                                                            | HEX. 5 mm - 50 mm |
|                  |      | 66177                                                                                            | HEX. 6 mm - 50 mm |
|                  |      | 66178                                                                                            | HEX. 8 mm - 50 mm |

5




**DESTORNILLADOR DE GOLPE / IMPACT SCREWDRIVER / TOURNEVIS À FRAPPER / SCHLAGSCHRAUBENDREHER / CACCIAVITE IMPAC / CHAVE DE IMPACTO / ОТВЕРТКА УДАРНАЯ**

| COD.         |  inch |  inch | N.m | L x H (mm) |  |  Kg |  |
|--------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----|------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>55296</b> | 1/2                                                                                      | 5/16                                                                                     | 120 | 140 x 32   | 190 x 70 x 35                                                                       | 1,0                                                                                    | 1                                                                                     |



■ **MASTERBIT IMPACT 5/16"**



■ **PLANA / FLAT / À FENTE / FLACH / PIATTA / PLANA / ПЛОСКАЯ**

| COD.  |  mm | L (mm) |  PCS |
|-------|--------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|
| 55266 | 5,5 x 0,8                                                                            | 30     | 5                                                                                     |
| 55267 | 6,5 x 1,2                                                                            |        |                                                                                       |
| 55268 | 8 x 1,2                                                                              |        |                                                                                       |
| 55269 | 8 x 1,6                                                                              |        |                                                                                       |
| 55270 | 10 x 1,6                                                                             |        |                                                                                       |
| 55271 | 12 x 2                                                                               |        |                                                                                       |
| 55272 | 14 x 2,5                                                                             |        |                                                                                       |



5/16"



■ **PHILLIPS®\***

| COD.  |  mm | L (mm) |  PCS |
|-------|--------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|
| 55273 | PH1                                                                                  | 30     | 5                                                                                     |
| 55274 | PH2                                                                                  |        |                                                                                       |
| 55275 | PH3                                                                                  |        |                                                                                       |
| 55276 | PH4                                                                                  |        |                                                                                       |



5/16"



■ **POZIDRIV®\*\***

| COD.  |  mm | L (mm) |  PCS |
|-------|----------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------|
| 55277 | PZ1                                                                                    | 30     | 5                                                                                       |
| 55278 | PZ2                                                                                    |        |                                                                                         |
| 55279 | PZ3                                                                                    |        |                                                                                         |
| 55280 | PZ4                                                                                    |        |                                                                                         |



5/16"



■ **HEXAGONAL / HEXAGONAL / HEXAGONALE / HEXAGONAL / ESAGONALE / HEXAGONAL / ШЕСТИГРАННАЯ**

| COD.  |  mm | L (mm) |  PCS |
|-------|----------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------|
| 55281 | 4                                                                                      | 30     | 5                                                                                       |
| 55282 | 5                                                                                      |        |                                                                                         |
| 55283 | 6                                                                                      |        |                                                                                         |
| 55284 | 8                                                                                      |        |                                                                                         |
| 55285 | 10                                                                                     |        |                                                                                         |
| 55286 | 12                                                                                     |        |                                                                                         |



5/16"

■ **TORX®\*\***

| COD.  |  mm | L (mm) |  PCS |
|-------|----------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------|
| 55287 | T20                                                                                    | 30     | 5                                                                                       |
| 55288 | T25                                                                                    |        |                                                                                         |
| 55289 | T27                                                                                    |        |                                                                                         |
| 55290 | T30                                                                                    |        |                                                                                         |
| 55291 | T40                                                                                    |        |                                                                                         |
| 55292 | T45                                                                                    |        |                                                                                         |
| 55293 | T50                                                                                    |        |                                                                                         |
| 55294 | T55                                                                                    |        |                                                                                         |







5/16"

- \* Para tornillos PHILLIPS® (Marca registrada por Phillips Screw Company) / \*For screws PHILLIPS® (Phillips Screw Company registered trademark) / \*Pour vis PHILLIPS® (Marque enregistrée par Phillips Screw Company)
- \*\* Para tornillos POZIDRIV® (Marca registrada por European Ind. Serv. Ltd.) / \*For screws POZIDRIV® (European Ind. Serv. Ltd. registered trademark) / \*Pour vis POZIDRIV® (Marque enregistrée par European Ind. Serv. Ltd.)
- \*\* Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acutment Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)

**PUNTAS ATORNILLADORAS CON VASO / SOCKET BITS / EMBOUTS DE VISSAGE AVEC DOUILLE / STECKSCHLÜSSELEINSATZ / INSERTI A BUSSOLA / PONTAS APARAFUSADORAS COM CAIXA / ГОЛОВКИ-БИТЫ**



1/4"

**PLANA / FLAT / À FENTE / FLACH / PIATTA / PLANA / ПЛОСКАЯ**

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66733 | 0,8 x 4                                                                           | 37     | 15                                                                                | 10                                                                                | ●                                                                                   |
| 66734 | 1 x 5,5                                                                           |        |                                                                                   |                                                                                   |                                                                                     |
| 66735 | 1,2 x 6,5                                                                         |        |                                                                                   |                                                                                   |                                                                                     |
| 66736 | 1,2 x 8                                                                           |        |                                                                                   |                                                                                   |                                                                                     |





**PLANA SERIE LARGA / SLOTTED LONG / À FENTE SÉRIE LONGUE / LANG GESCHLITZT / PIATTA SERIE LUNGA / FENDA SÉRIE LONGA / ПЛОСКАЯ ВЫСОКАЯ СЕРИЯ**

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53015 | 0,8 x 4                                                                           | 50     | 18                                                                                | 10                                                                                | ●                                                                                   |
| 53016 | 1 x 5,5                                                                           |        |                                                                                   |                                                                                   |                                                                                     |
| 53017 | 1,2 x 6,5                                                                         |        |                                                                                   |                                                                                   |                                                                                     |







**PHILLIPS\*\***

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66737 | PH-1                                                                              | 37     | 15                                                                                | 10                                                                                | ●                                                                                   |
| 66738 | PH-2                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 66739 | PH-3                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 58900 | PH-4                                                                              |        |                                                                                   |                                                                                   |                                                                                     |







**PHILLIPS\*\* SERIE LARGA / PHILLIPS\*\* LONG / PHILLIPS\*\* SÉRIE LONGUE / PHILLIPS\*\* LANGE SERIE / PHILLIPS\*\* SERIE LUNGA / PHILLIPS\*\* SÉRIE LONGA / PHILLIPS\*\* ВЫСОКАЯ СЕРИЯ**

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53019 | PH-1                                                                                | 50     | 18                                                                                  | 10                                                                                  | ●                                                                                     |
| 53020 | PH-2                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53021 | PH-3                                                                                |        |                                                                                     |                                                                                     |                                                                                       |







**POZIDRIV\*\***

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66740 | PZ-1                                                                                | 37     | 15                                                                                  | 10                                                                                  | ●                                                                                     |
| 66741 | PZ-2                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 66742 | PZ-3                                                                                |        |                                                                                     |                                                                                     |                                                                                       |



**BE SAFE...BE EFFICIENT**





POZIDRIV®\*\* SERIE LARGA / POZIDRIV®\*\* LONG / POZIDRIV®\*\* SÉRIE LONGUE / POZIDRIV®\*\* LANGE SERIE / POZIDRIV®\*\* SERIE LUNGA / POZIDRIV®\*\* SÉRIE LONGA / POZIDRIV®\*\*  
ВЫСОКАЯ СЕРИЯ

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53023 | PZ-1                                                                              |        | 18                                                                                |                                                                                   |                                                                                     |
| 53024 | PZ-2                                                                              | 50     |                                                                                   | 10                                                                                | •                                                                                   |
| 53025 | PZ-3                                                                              |        | 19                                                                                |                                                                                   |                                                                                     |







HEXAGONAL / HEXAGONAL / HEXAGONALE / HEXAGONAL / ESAGONALE / HEXAGONAL / ШЕСТИГРАННАЯ

MM

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 55697 | 1,5                                                                               |        |                                                                                   |                                                                                   |                                                                                     |
| 55698 | 2                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |
| 53013 | 2,5                                                                               |        |                                                                                   |                                                                                   |                                                                                     |
| 66743 | 3                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |
| 55699 | 3,5                                                                               |        |                                                                                   |                                                                                   |                                                                                     |
| 66744 | 4                                                                                 | 37     | 15                                                                                | 10                                                                                | •                                                                                   |
| 66745 | 5                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |
| 55700 | 5,5                                                                               |        |                                                                                   |                                                                                   |                                                                                     |
| 66746 | 6                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |
| 67164 | 7                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |
| 66747 | 8                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |







INCH

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 55670 | 1/16                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 55671 | 5/64                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 55672 | 3/32                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 55673 | 7/64                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 55674 | 1/8                                                                                 | 37     | 15                                                                                  | 10                                                                                  | •                                                                                     |
| 55675 | 9/64                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 55676 | 5/32                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 55677 | 3/16                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 55678 | 7/32                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 55679 | 1/4                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |



HEXAGONAL SERIE LARGA / HEXAGONAL LONG / HEXAGONALE SÉRIE LONGUE / HEXAGONAL LANG / ESAGONALE SERIE LUNGA / HEXAGONAL SÉRIE LONGA / ШЕСТИГРАННАЯ  
ВЫСОКАЯ СЕРИЯ

MM





| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53041 | 1,5                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |
| 53042 | 2                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |
| 53043 | 2,5                                                                                 |        | 19                                                                                  |                                                                                     |                                                                                       |
| 53044 | 3                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |
| 53045 | 4                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |
| 53046 | 5                                                                                   | 50     |                                                                                     | 10                                                                                  | •                                                                                     |
| 53047 | 5,5                                                                                 |        | 20                                                                                  |                                                                                     |                                                                                       |
| 53048 | 6                                                                                   |        | 22                                                                                  |                                                                                     |                                                                                       |
| 53049 | 7                                                                                   |        | 23                                                                                  |                                                                                     |                                                                                       |
| 53050 | 8                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |







INCH.

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53051 | 1/16                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53052 | 5/64                                                                                | 50     | 19                                                                                  | 10                                                                                  | •                                                                                     |
| 53053 | 3/32                                                                                |        |                                                                                     |                                                                                     |                                                                                       |







| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53054 | 7/64                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 53055 | 1/8                                                                               |        |                                                                                   |                                                                                   |                                                                                     |
| 53056 | 9/64                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 53057 | 5/32                                                                              | 50     | 19                                                                                | 10                                                                                | ●                                                                                   |
| 53058 | 3/16                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 53059 | 7/32                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 53060 | 1/4                                                                               |        |                                                                                   |                                                                                   |                                                                                     |

#### TORX®

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66729 | T-6                                                                               |        |                                                                                   | 15                                                                                |                                                                                     |
| 66730 | T-7                                                                               |        |                                                                                   |                                                                                   |                                                                                     |
| 66748 | T-8                                                                               |        |                                                                                   |                                                                                   |                                                                                     |
| 66749 | T-9                                                                               |        |                                                                                   |                                                                                   |                                                                                     |
| 66750 | T-10                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 66751 | T-15                                                                              | 37     | 15                                                                                |                                                                                   | ●                                                                                   |
| 66752 | T-20                                                                              |        |                                                                                   | 10                                                                                |                                                                                     |
| 66753 | T-25                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 66754 | T-27                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 66755 | T-30                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 66756 | T-40                                                                              |        |                                                                                   |                                                                                   |                                                                                     |







#### TORX® SERIE LARGA / TORX® LONG / TORX® SÉRIE LONGUE / TORX® LANGE SERIE / TORX® SERIE LUNGA / TORX® SÉRIE LONGA / TORX® ВЫСОКАЯ СЕРИЯ

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53027 | T-6                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |
| 53028 | T-7                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |
| 53029 | T-8                                                                                 | 50     | 18                                                                                  | 10                                                                                  | ●                                                                                     |
| 53030 | T-9                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |
| 53031 | T-10                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53032 | T-15                                                                                |        | 19                                                                                  |                                                                                     |                                                                                       |





#### TAMPER TORX

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53000 | TT6                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |
| 53001 | TT7                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |
| 53002 | TT8                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |
| 53003 | TT9                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |
| 53004 | TT10                                                                                |        | 14                                                                                  |                                                                                     |                                                                                       |
| 53005 | TT15                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53006 | TT20                                                                                | 37     |                                                                                     | 10                                                                                  | ●                                                                                     |
| 53007 | TT25                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53008 | TT27                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53009 | TT30                                                                                |        | 15                                                                                  |                                                                                     |                                                                                       |
| 53010 | TT35                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53011 | TT40                                                                                |        | 16                                                                                  |                                                                                     |                                                                                       |



#### TAMPER TORX SERIE LARGA / TAMPER TORX LONG / TAMPER TORX SÉRIE LONGUE / TAMPER TORX LANGE SERIE / TAMPER TORX SERIE LUNGA / TAMPER TORX SÉRIE LONGA / TAMPER TORX ВЫСОКАЯ СЕРИЯ




| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53034 | TT-6                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53035 | TT-7                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53036 | TT-8                                                                                | 50     | 18                                                                                  | 10                                                                                  | ●                                                                                     |
| 53037 | TT-9                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53038 | TT-10                                                                               |        |                                                                                     |                                                                                     |                                                                                       |



\*Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)

| COD.         |  | L (mm) |  |  |  |
|--------------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>53039</b> | TT-15                                                                             | 50     | 18                                                                                | 10                                                                                | ●                                                                                   |





### SET

| COD.                                             |  | inch | PCS. |  |  | COD. PCS.                                                     | Composición / Composition / Composition                    |
|--------------------------------------------------|-----------------------------------------------------------------------------------|------|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------|
| <b>66757</b>                                     | 1/4                                                                               |      | 12   | 250                                                                               | 1                                                                                 | 66733, 66734, 66735, 66736, 66737, 66738, 66739,              | 0,8 x 4 - 1 x 5,5 - 1,2 x 6,5 - 1,2 x 8 mm - PH-1 - PH-2   |
| 66743, 66744, 66745, 66746, 66747                |                                                                                   |      |      |                                                                                   |                                                                                   | - PH-3 - HEX-3 - HEX-4 - HEX-5 - HEX-6 - HEX-8                |                                                            |
| 66733, 66734, 66735, 66736, 66740, 66741, 66742, |                                                                                   |      |      |                                                                                   |                                                                                   | 0,8 x 4 - 1 x 5,5 - 1,2 x 6,5 - 1,2 x 8 mm - PZ-1 - PZ-2      |                                                            |
| <b>66758</b>                                     |                                                                                   |      |      |                                                                                   |                                                                                   | 66743, 66744, 66745, 66746, 66747                             | - PZ-3 - HEX-3 - HEX-4 - HEX-5 - HEX-6 - HEX-8             |
| <b>66759</b>                                     |                                                                                   |      | 9    | 200                                                                               |                                                                                   | 66748, 66749, 66750, 66751, 66752, 66753, 66754, 66755, 66756 | T-8 - T-9 - T-10 - T-15 - T-20 - T-25 - T-27 - T-30 - T-40 |







### 3/8"

#### PLANA / FLAT / À FENTE / FLACH / PIATTA / PLANA / ПЛОСКАЯ

| COD.         |  | L (mm) |  |  |  |
|--------------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>66760</b> | 1 x 5,5                                                                           | 48     | 35                                                                                | 10                                                                                | ●                                                                                   |
| <b>66761</b> | 1,2 x 6,5                                                                         |        |                                                                                   |                                                                                   |                                                                                     |
| <b>66762</b> | 1,2 x 8                                                                           |        |                                                                                   |                                                                                   |                                                                                     |
| <b>66763</b> | 1,5 x 8                                                                           |        |                                                                                   |                                                                                   |                                                                                     |
| <b>66764</b> | 1,6 x 10                                                                          |        |                                                                                   |                                                                                   |                                                                                     |







#### PLANA SERIE LARGA / SLOTTED LONG / À FENTE SÉRIE LONGUE / LANG GESCHLITZT / PIATTA SERIE LUNGA / FENDA SÉRIE LONGA / ПЛОСКАЯ ВЫСОКАЯ СЕРИЯ

| COD.         |  | L (mm) |  |  |  |
|--------------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>53078</b> | 1,2 x 6,5                                                                           | 100    | 46                                                                                  | 10                                                                                  | ●                                                                                     |
| <b>53079</b> | 1,2 x 8                                                                             |        |                                                                                     |                                                                                     |                                                                                       |
| <b>53080</b> | 1,6 x 10                                                                            |        |                                                                                     |                                                                                     |                                                                                       |







### PHILLIPS\*\*

| COD.         |  | L (mm) |  |  |  |
|--------------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>66765</b> | PH-1                                                                                | 48     | 35                                                                                  | 10                                                                                  | ●                                                                                     |
| <b>66766</b> | PH-2                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| <b>66767</b> | PH-3                                                                                |        |                                                                                     |                                                                                     |                                                                                       |







#### PHILLIPS\*\* SERIE LARGA / PHILLIPS\*\* LONG / PHILLIPS\*\* SÉRIE LONGUE / PHILLIPS\*\* LANGE SERIE / PHILLIPS\*\* SERIE LUNGA / PHILLIPS\*\* SÉRIE LONGA / PHILLIPS\*\* ВЫСОКАЯ СЕРИЯ

| COD.         |  | L (mm) |  |  |  |
|--------------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>53082</b> | PH-1                                                                                | 100    | 46                                                                                  | 10                                                                                  | ●                                                                                     |
| <b>53083</b> | PH-2                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| <b>53084</b> | PH-3                                                                                |        |                                                                                     |                                                                                     |                                                                                       |



### POZIDRIV\*\*

| COD.         |  | L (mm) |  |  |  |
|--------------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>66768</b> | PZ-1                                                                                | 48     | 35                                                                                  | 10                                                                                  | ●                                                                                     |
| <b>66769</b> | PZ-2                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| <b>66770</b> | PZ-3                                                                                |        |                                                                                     |                                                                                     |                                                                                       |



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\* Para tornillos POZIDRIV® (Marca registrada por European Ind. Serv. Ltd.) / \*For screws POZIDRIV® (European Ind. Serv. Ltd. registered trademark) / \*Pour vis POZIDRIV® (Marque enregistrée par European Ind. Serv. Ltd.)







POZIDRIV®\*\* SERIE LARGA / POZIDRIV®\*\* LONG / POZIDRIV®\*\* SÉRIE LONGUE / POZIDRIV®\*\* LANGE SERIE / POZIDRIV®\*\* SERIE LUNGA / POZIDRIV®\*\* SÉRIE LONGA / POZIDRIV®\*\*  
ВЫСОКАЯ СЕРИЯ

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53086 | PZ-0                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 53087 | PZ-1                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 53088 | PZ-2                                                                              | 100    | 46                                                                                | 10                                                                                | •                                                                                   |
| 53089 | PZ-3                                                                              |        |                                                                                   |                                                                                   |                                                                                     |







HEXAGONAL / HEXAGONAL / HEXAGONALE / HEXAGONAL / ESAGONALE / HEXAGONAL / ШЕСТИГРАННАЯ

MM

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66771 | 3                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |
| 55701 | 3,5                                                                               |        |                                                                                   |                                                                                   |                                                                                     |
| 66772 | 4                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |
| 66773 | 5                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |
| 55702 | 5,5                                                                               | 48     | 35                                                                                | 10                                                                                | •                                                                                   |
| 66774 | 6                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |
| 66775 | 7                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |
| 66776 | 8                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |
| 55703 | 9,5                                                                               |        |                                                                                   |                                                                                   |                                                                                     |
| 66777 | 10                                                                                |        |                                                                                   |                                                                                   |                                                                                     |







INCH

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 55680 | 1/8                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |
| 55681 | 9/64                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 55682 | 5/32                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 55683 | 3/16                                                                                | 48     | 35                                                                                  | 10                                                                                  | •                                                                                     |
| 55684 | 7/32                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 55685 | 1/4                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |
| 55686 | 5/16                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 55687 | 3/8                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |







HEXAGONAL SERIE LARGA / HEXAGONAL LONG / HEXAGONALE SÉRIE LONGUE / HEXAGONAL LANG / ESAGONALE SERIE LUNGA / HEXAGONAL SÉRIE LONGA / ШЕСТИГРАННАЯ  
ВЫСОКАЯ СЕРИЯ

MM

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66778 | 4                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |
| 66779 | 5                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |
| 66780 | 6                                                                                   | 92     | 70                                                                                  | 10                                                                                  | •                                                                                     |
| 66781 | 8                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |
| 66782 | 10                                                                                  |        |                                                                                     |                                                                                     |                                                                                       |








INCH

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 56975 | 1/8                                                                                 |        | 90                                                                                  |                                                                                     |                                                                                       |
| 56976 | 9/64                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 56977 | 5/32                                                                                |        | 95                                                                                  |                                                                                     |                                                                                       |
| 56978 | 3/16                                                                                |        | 100                                                                                 |                                                                                     |                                                                                       |
| 56979 | 7/32                                                                                | 100    | 110                                                                                 | 10                                                                                  | •                                                                                     |
| 56980 | 1/4                                                                                 |        | 115                                                                                 |                                                                                     |                                                                                       |
| 56981 | 5/16                                                                                |        | 170                                                                                 |                                                                                     |                                                                                       |
| 56982 | 3/8                                                                                 |        | 235                                                                                 |                                                                                     |                                                                                       |








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

HEXAGONAL PUNTA DE BOLA SERIE LARGA / HEXAGONAL BALL POINT LONG SERIE / HEXAGONALE EMBOUT SPHÉRIQUE SÉRIE LONGUE / HEXAGONAL KUGELKOPF LANG / ESAGONALE TESTA SFERICA SERIE LUNGO / HEXAGONAL PONTA ESFERICA SÉRIE LONGA / ШЕСТИГРАННАЯ С ШАРОВОЙ ГОЛОВКОЙ ДЛИННАЯ





| COD.  |  | L (mm) |  |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66783 | 4                                                                                 |        |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
| 66784 | 5                                                                                 |        |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
| 66785 | 6                                                                                 | 92     | 70                                                                                | 10                                                                                | •                                                                                  |                                                                                     |
| 66786 | 8                                                                                 |        |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
| 66787 | 10                                                                                |        |                                                                                   |                                                                                   |                                                                                    |                                                                                     |

TORX®






| COD.  |  | L (mm) |  |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66788 | T-10                                                                              |        |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
| 66789 | T-15                                                                              |        |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
| 66790 | T-20                                                                              |        |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
| 66791 | T-25                                                                              |        |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
| 66792 | T-27                                                                              |        |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
| 66793 | T-30                                                                              | 48     | 35                                                                                | 10                                                                                | •                                                                                  |                                                                                     |
| 58891 | T-35                                                                              |        |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
| 66794 | T-40                                                                              |        |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
| 66795 | T-45                                                                              |        |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
| 66796 | T-50                                                                              |        |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
| 53063 | T-60                                                                              |        |                                                                                   |                                                                                   |                                                                                    |                                                                                     |





TORX® SERIE LARGA / TORX® LONG / TORX® SÉRIE LONGUE / TORX® LANGE SERIE / TORX® SERIE LUNGA / TORX® SÉRIE LONGA / TORX® ВЫСОКАЯ СЕРИЯ

| COD.  |  | L (mm) |  |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 58173 | T-15                                                                                |        |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
| 58174 | T-20                                                                                |        |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
| 58175 | T-25                                                                                | 75     | 55                                                                                  | 10                                                                                  | •                                                                                    |                                                                                       |
| 58176 | T-27                                                                                |        |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
| 58177 | T-30                                                                                |        |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
| 58178 | T-40                                                                                |        |                                                                                     |                                                                                     |                                                                                      |                                                                                       |





| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 53091 | T-10                                                                                |        |                                                                                     |                                                                                     |                                                                                      |
| 53092 | T-15                                                                                |        |                                                                                     |                                                                                     |                                                                                      |
| 53093 | T-17                                                                                |        | 46                                                                                  |                                                                                     |                                                                                      |
| 53094 | T-20                                                                                |        |                                                                                     | 10                                                                                  |                                                                                      |
| 58892 | T-25                                                                                | 90     |                                                                                     |                                                                                     | •                                                                                    |
| 53096 | T-27                                                                                |        |                                                                                     |                                                                                     |                                                                                      |
| 58893 | T-30                                                                                |        | 47                                                                                  |                                                                                     |                                                                                      |
| 58894 | T-35                                                                                |        |                                                                                     |                                                                                     |                                                                                      |
| 58895 | T-50                                                                                |        | 60                                                                                  |                                                                                     |                                                                                      |

TAMPER TORX

| COD.  |  | L (mm) |  |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53065 | TT-10                                                                               |        | 32                                                                                  |                                                                                     |                                                                                      |                                                                                       |
| 53066 | TT-15                                                                               |        |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
| 53067 | TT-20                                                                               |        |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
| 53068 | TT-25                                                                               |        | 33                                                                                  |                                                                                     |                                                                                      |                                                                                       |
| 53069 | TT-27                                                                               |        |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
| 53070 | TT-30                                                                               | 48     |                                                                                     | 10                                                                                  | •                                                                                    |                                                                                       |
| 53071 | TT-35                                                                               |        | 34                                                                                  |                                                                                     |                                                                                      |                                                                                       |
| 53072 | TT-40                                                                               |        |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
| 58896 | TT-45                                                                               |        |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
| 53074 | TT-50                                                                               |        | 39                                                                                  |                                                                                     |                                                                                      |                                                                                       |





| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53075 | TT-55                                                                             | 48     | 39                                                                                | 10                                                                                | •                                                                                   |
| 53076 | TT-60                                                                             |        | 50                                                                                |                                                                                   |                                                                                     |

**TAMPER TORX SERIE LARGA / TAMPER TORX LONG / TAMPER TORX SÉRIE LONGUE / TAMPER TORX LANGE SERIE / TAMPER TORX SERIE LUNGA / TAMPER TORX SÉRIE LONGA / TAMPER TORX ВЫСОКАЯ СЕРИЯ**

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53098 | TT-10                                                                             |        | 46                                                                                |                                                                                   |                                                                                     |
| 53099 | TT-15                                                                             |        |                                                                                   |                                                                                   |                                                                                     |
| 53101 | TT-20                                                                             | 100    |                                                                                   | 10                                                                                | •                                                                                   |
| 53102 | TT-25                                                                             |        | 47                                                                                |                                                                                   |                                                                                     |
| 53103 | TT-27                                                                             |        |                                                                                   |                                                                                   |                                                                                     |
| 58897 | TT-45                                                                             |        | 110                                                                               |                                                                                   |                                                                                     |







**SET**

| COD.  |  |  | PCS. |  |  | COD. PCS.                                                                          | Composición / Composition / Composition                                                                                  |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 66797 |                                                                                   |                                                                                   | 11   | 450                                                                               |                                                                                   | 66760, 66761, 66762, 66763, 66764, 66765, 66766, 66767, 66768, 66769, 66770        | 1 x 5,5 - 1,2 x 6,5 - 1,2 x 8 - 1,5 x 8 - 1,6 x 10 mm - PH-1 - PH-2 - PH-3 - PZ-1 - PZ-2 - PZ-3                          |
| 66798 |                                                                                   |                                                                                   | 12   | 650                                                                               | 1                                                                                 | 66771, 66772, 66773, 66774, 66775, 66776, 66777, 66778, 66779, 66780, 66781, 66782 | HEX-3 - HEX-4 - HEX-5 - HEX-6 - HEX-7 - HEX-8 - HEX-10 - HEX-4(L) - HEX-5(L) - HEX-6(L) - HEX-8(L) - HEX-10(L)           |
| 66799 | 3/8                                                                               |                                                                                   | 12   | 650                                                                               | 1                                                                                 | 66771, 66772, 66773, 66774, 66775, 66776, 66777, 66783, 66784, 66785, 66786, 66787 | HEX-3 - HEX-4 - HEX-5 - HEX-6 - HEX-7 - HEX-8 - HEX-10 - HEX-4(L-B) - HEX-5(L-B) - HEX-6(L-B) - HEX-8(L-B) - HEX-10(L-B) |
| 66800 |                                                                                   |                                                                                   | 9    | 350                                                                               |                                                                                   | 66788, 66789, 66790, 66791, 66792, 66793, 66794, 66795, 66796                      | T-10 - T-15 - T-20 - T-25 - T-27 - T-30 - T-40 - T-45 - T-50                                                             |







**1/2"**

**PLANA / FLAT / À FENTE / FLACH / PIATTA / PLANA / ПЛОСКАЯ**

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66801 | 1,2 x 8                                                                             |        |                                                                                     |                                                                                     |                                                                                       |
| 66802 | 1,6 x 10                                                                            | 62     | 75                                                                                  | 10                                                                                  | •                                                                                     |
| 66803 | 2 x 12                                                                              |        |                                                                                     |                                                                                     |                                                                                       |







**PLANA SERIE LARGA / SLOTTED LONG / À FENTE SÉRIE LONGUE / LANG GESCHLITZT / PIATTA SERIE LUNGA / FENDA SÉRIE LONGA / ПЛОСКАЯ ВЫСОКАЯ СЕРИЯ**

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53127 | 1,2 x 8                                                                             |        |                                                                                     |                                                                                     |                                                                                       |
| 53128 | 1,6 x 10                                                                            | 100    | 100                                                                                 | 10                                                                                  | •                                                                                     |
| 53129 | 2,0 x 12                                                                            |        | 125                                                                                 |                                                                                     |                                                                                       |







**PHILLIPS\*\***

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53105 | PH-1                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 66804 | PH-2                                                                                | 56     | 70                                                                                  | 10                                                                                  | •                                                                                     |
| 66805 | PH-3                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 66806 | PH-4                                                                                |        |                                                                                     |                                                                                     |                                                                                       |



**PHILLIPS\*\* SERIE LARGA / PHILLIPS\*\* LONG / PHILLIPS\*\* SÉRIE LONGUE / PHILLIPS\*\* LANGE SERIE / PHILLIPS\*\* SERIE LUNGA / PHILLIPS\*\* SÉRIE LONGA / PHILLIPS\*\* ВЫСОКАЯ СЕРИЯ**

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53131 | PH-1                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53132 | PH-2                                                                                | 100    | 100                                                                                 | 10                                                                                  | •                                                                                     |
| 53133 | PH-3                                                                                |        |                                                                                     |                                                                                     |                                                                                       |



\*Para tornillos PHILLIPS® (Marca registrada por Phillips Screw Company) / \*For screws PHILLIPS® (Phillips Screw Company registered trademark) / \*Pour vis PHILLIPS® (Marque enregistrée par Phillips Screw Company)

06

**PUNTAS DE DESTORNILLADOR**  
**BITS**  
**EMBOUS DE VISSAGE**  
**BITS**  
**INSERTI**  
**PONTAS**  
**БИТЫ**



| COD.  |      | L (mm) |     |    |   |
|-------|------|--------|-----|----|---|
| 53134 | PH-4 | 100    | 100 | 10 | ● |

#### POZIDRIV®\*

| COD.  |      | L (mm) |    |    |   |
|-------|------|--------|----|----|---|
| 53107 | PZ-1 | 55     | 70 | 10 | ● |
| 53108 | PZ-2 |        |    |    |   |
| 53109 | PZ-3 |        |    |    |   |
| 53110 | PZ-4 |        |    |    |   |



#### POZIDRIV®\* SERIE LARGA / POZIDRIV®\* LONG / POZIDRIV®\* SÉRIE LONGUE / POZIDRIV®\* LANGE SERIE / POZIDRIV®\* SERIE LUNGA / POZIDRIV®\* SÉRIE LONGA / POZIDRIV®\* ВЫСОКАЯ СЕРИЯ

| COD.  |      | L (mm) |     |    |   |
|-------|------|--------|-----|----|---|
| 53136 | PZ-1 | 100    | 100 | 10 | ● |
| 53137 | PZ-2 |        |     |    |   |
| 53138 | PZ-3 |        |     |    |   |
| 53139 | PZ-4 |        |     |    |   |



#### HEXAGONAL / HEXAGONAL / HEXAGONALE / HEXAGONAL / ESAGONALE / HEXAGONAL / ШЕСТИГРАННАЯ

#### MM

| COD.  |     | L (mm) |    |    |   |     |
|-------|-----|--------|----|----|---|-----|
| 66807 | 4   | 55     | 75 | 10 | ● |     |
| 66808 | 5   |        |    |    |   |     |
| 55704 | 5,5 |        |    |    |   |     |
| 66809 | 6   |        |    |    |   |     |
| 66810 | 7   |        |    |    |   |     |
| 66811 | 8   |        |    |    |   |     |
| 67213 | 9   |        |    |    |   |     |
| 55705 | 9,5 |        |    |    |   |     |
| 66812 | 10  |        |    |    |   |     |
| 67214 | 11  |        |    |    |   |     |
| 66813 | 12  |        |    |    |   | 80  |
| 55706 | 13  |        |    |    |   | 95  |
| 66814 | 14  |        |    |    |   | 150 |
| 55708 | 17  |        |    |    |   |     |
| 55707 | 19  |        |    |    |   |     |



#### INCH






| COD.  |      | L (mm) |    |    |   |     |
|-------|------|--------|----|----|---|-----|
| 55688 | 7/32 | 55     | 75 | 10 | ● |     |
| 55689 | 1/4  |        |    |    |   |     |
| 55690 | 5/16 |        |    |    |   |     |
| 55691 | 3/8  |        |    |    |   |     |
| 55692 | 7/16 |        |    |    |   | 80  |
| 55693 | 1/2  |        |    |    |   | 95  |
| 55695 | 5/8  |        |    |    |   | 115 |
| 55696 | 3/4  |        |    |    |   | 120 |








\* Para tornillos PHILLIPS® (Marca registrada por Phillips Screw Company) / \*For screws PHILLIPS® (Phillips Screw Company registered trademark) / \*Pour vis PHILLIPS® (Marque enregistrée par Phillips Screw Company)  
 \* Para tornillos POZIDRIV® (Marca registrada por European Ind. Serv. Ltd.) / \*For screws POZIDRIV® (European Ind. Serv. Ltd. registered trademark) / \*Pour vis POZIDRIV® (Marque enregistrée par European Ind. Serv. Ltd.)

**HEXAGONAL SERIE LARGA / HEXAGONAL LONG / HEXAGONALE SÉRIE LONGUE / HEXAGONAL LANG / ESAGONALE SERIE LUNGA / HEXAGONAL SÉRIE LONGA / ШЕСТИГРАННАЯ ВЫСОКАЯ СЕРИЯ**






**MM**

| COD.  |  | L (mm) |  |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66815 | 5                                                                                 | 100    | 75                                                                                | 10                                                                                | ●                                                                                   |                                                                                     |
| 66816 | 6                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| 66817 | 7                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| 66818 | 8                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| 66819 | 10                                                                                |        |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| 66842 | 14                                                                                |        |                                                                                   |                                                                                   |                                                                                     |                                                                                     |






**INCH**

| COD.  |  | L (mm) |  |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 56985 | 7/32                                                                              | 100    | 90                                                                                | 10                                                                                | ●                                                                                   |                                                                                     |
| 56986 | 1/4                                                                               |        | 95                                                                                |                                                                                   |                                                                                     |                                                                                     |
| 56987 | 5/16                                                                              |        | 100                                                                               |                                                                                   |                                                                                     |                                                                                     |
| 56988 | 3/8                                                                               |        | 110                                                                               |                                                                                   |                                                                                     |                                                                                     |
| 56989 | 7/16                                                                              |        | 115                                                                               |                                                                                   |                                                                                     |                                                                                     |
| 56990 | 1/2                                                                               |        | 170                                                                               |                                                                                   |                                                                                     |                                                                                     |
| 56991 | 9/16                                                                              |        | 235                                                                               |                                                                                   |                                                                                     |                                                                                     |
| 56992 | 5/8                                                                               |        | 350                                                                               |                                                                                   |                                                                                     |                                                                                     |
| 56993 | 3/4                                                                               |        |                                                                                   |                                                                                   |                                                                                     |                                                                                     |






**XZN**

| COD.  |  | L (mm) |  |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66820 | M-5                                                                                 | 55     | 75                                                                                  | 10                                                                                  | ●                                                                                     |                                                                                       |
| 66821 | M-6                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| 66822 | M-8                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| 66823 | M-10                                                                                |        |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| 66824 | M-12                                                                                |        |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| 66825 | M-14                                                                                |        |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| 66825 | M-14                                                                                |        |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| 56896 | M-16                                                                                |        |                                                                                     |                                                                                     |                                                                                       |                                                                                       |

**XZN SERIE LARGA / XZN LONG / XZN SÉRIE LONGUE / XZN LANG / XZN SERIE LUNGO / XZN SÉRIE LONGA / XZN ДЛИННАЯ**

| COD.  |  | L (mm) |  |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66826 | M-6                                                                                 | 100    | 100                                                                                 | 10                                                                                  | ●                                                                                     |                                                                                       |
| 66827 | M-8                                                                                 |        | 120                                                                                 |                                                                                     |                                                                                       |                                                                                       |
| 66828 | M-10                                                                                |        | 160                                                                                 |                                                                                     |                                                                                       |                                                                                       |
| 66829 | M-12                                                                                |        | 165                                                                                 |                                                                                     |                                                                                       |                                                                                       |
| 56897 | M-14                                                                                |        |                                                                                     |                                                                                     |                                                                                       |                                                                                       |





**TORX®\***

| COD.  |  | L (mm) |  |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66830 | T-20                                                                                | 55     | 80                                                                                  | 10                                                                                  | ●                                                                                     |                                                                                       |
| 66831 | T-25                                                                                |        |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| 66832 | T-27                                                                                |        |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| 66833 | T-30                                                                                |        |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| 53112 | T-35                                                                                |        |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| 66834 | T-40                                                                                |        |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| 66835 | T-45                                                                                |        |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| 66836 | T-50                                                                                |        |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| 66837 | T-55                                                                                |        |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| 56895 | T-60                                                                                |        |                                                                                     |                                                                                     |                                                                                       |                                                                                       |

\*Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)





| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53113 | T-70                                                                              | 55     | 80                                                                                | 10                                                                                | ●                                                                                   |

**TORX® SERIE LARGA / TORX® LONG / TORX® SÉRIE LONGUE / TORX® LANGE SERIE / TORX® SERIE LUNGA / TORX® SÉRIE LONGA / TORX® ВЫСОКАЯ СЕРИЯ**

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53141 | T-20                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 53142 | T-25                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 53143 | T-27                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 53144 | T-30                                                                              |        | 100                                                                               |                                                                                   |                                                                                     |
| 53145 | T-35                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 66838 | T-40                                                                              | 100    |                                                                                   | 10                                                                                | ●                                                                                   |
| 66839 | T-45                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 66840 | T-50                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 66841 | T-55                                                                              |        | 110                                                                               |                                                                                   |                                                                                     |
| 53146 | T-60                                                                              |        | 125                                                                               |                                                                                   |                                                                                     |
| 53147 | T-70                                                                              |        | 165                                                                               |                                                                                   |                                                                                     |







**TAMPER TORX**

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53115 | TT-20                                                                             |        |                                                                                   |                                                                                   |                                                                                     |
| 53116 | TT-25                                                                             |        |                                                                                   |                                                                                   |                                                                                     |
| 53117 | TT-27                                                                             |        |                                                                                   |                                                                                   |                                                                                     |
| 53118 | TT-30                                                                             |        | 70                                                                                |                                                                                   |                                                                                     |
| 53119 | TT-35                                                                             |        |                                                                                   |                                                                                   |                                                                                     |
| 53120 | TT-40                                                                             | 55     |                                                                                   | 10                                                                                | ●                                                                                   |
| 53121 | TT-45                                                                             |        |                                                                                   |                                                                                   |                                                                                     |
| 53122 | TT-50                                                                             |        | 75                                                                                |                                                                                   |                                                                                     |
| 53123 | TT-55                                                                             |        | 85                                                                                |                                                                                   |                                                                                     |
| 53124 | TT-60                                                                             |        |                                                                                   |                                                                                   |                                                                                     |
| 53125 | TT-70                                                                             |        | 110                                                                               |                                                                                   |                                                                                     |







**TAMPER TORX SERIE LARGA / TAMPER TORX LONG / TAMPER TORX SÉRIE LONGUE / TAMPER TORX LANGE SERIE / TAMPER TORX SERIE LUNGA / TAMPER TORX SÉRIE LONGA / TAMPER TORX ВЫСОКАЯ СЕРИЯ**

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53149 | TT-20                                                                               |        |                                                                                     |                                                                                     |                                                                                       |
| 53150 | TT-25                                                                               |        |                                                                                     |                                                                                     |                                                                                       |
| 53151 | TT-27                                                                               |        |                                                                                     |                                                                                     |                                                                                       |
| 53152 | TT-30                                                                               |        | 100                                                                                 |                                                                                     |                                                                                       |
| 53153 | TT-35                                                                               |        |                                                                                     |                                                                                     |                                                                                       |
| 53154 | TT-40                                                                               | 100    |                                                                                     | 10                                                                                  | ●                                                                                     |
| 53155 | TT-45                                                                               |        |                                                                                     |                                                                                     |                                                                                       |
| 53156 | TT-50                                                                               |        | 105                                                                                 |                                                                                     |                                                                                       |
| 53157 | TT-55                                                                               |        | 125                                                                                 |                                                                                     |                                                                                       |
| 53158 | TT-60                                                                               |        |                                                                                     |                                                                                     |                                                                                       |
| 53159 | TT-70                                                                               |        | 165                                                                                 |                                                                                     |                                                                                       |



**PUNTA RIBE® CON VASO / RIBE® BIT SOCKETS / POINTE RIBE® AVEC DOUILLE / RIBE® SOCKETBIT / CHIAVI A BUSSOLA PUNTA RIBE® / PONTEIRA RIBE® COM CHAVE DE CAIXA / ГОЛОВКА ТОРЦЕВАЯ СО ВСТАВКОЙ С ПРОФИЛЕМ RIBE®**

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 65985 | M5                                                                                  |        |                                                                                     |                                                                                     |                                                                                       |
| 65986 | M6                                                                                  |        |                                                                                     |                                                                                     |                                                                                       |
| 65987 | M7                                                                                  | 100    | 90                                                                                  | 10                                                                                  | ●                                                                                     |
| 65988 | M8                                                                                  |        | 95                                                                                  |                                                                                     |                                                                                       |



\*Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)

\*Para tornillos RIBE® (Marca registrada por Richard Bergner Verbindungstechnik GmbH & Co. KG) / \*For screws RIBE® (Richard Bergner Verbindungstechnik GmbH & Co. KG registered trademark) / \*Pour vis RIBE® (Marque enregistrée par Richard Bergner Verbindungstechnik GmbH & Co. KG)

06

**PUNTAS DE DESTORNILLADOR**  
**BITS**  
**EMBOUS DE VISSAGE**  
**BITS**  
**INSERTI**  
**PONTAS**  
**БИТЫ**



| COD.  |     | L (mm) |     |    |   |
|-------|-----|--------|-----|----|---|
| 65989 | M9  |        | 100 |    |   |
| 65990 | M10 |        | 110 |    |   |
| 65991 | M12 | 100    | 150 | 10 | ● |
| 65992 | M14 |        | 180 |    |   |
| 65993 | M16 |        | 200 |    |   |

## SET

| COD.  |     | inch | PCS. |      |   | COD. PCS.                                                                          | Composición / Composition / Composition                                                                |
|-------|-----|------|------|------|---|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 55993 |     |      | 900  |      |   | 66801, 66802, 66803, 66804, 66805, 66806, 66807, 66808, 66809, 66811, 66812, 66813 | 1,2 x 8 - 6 x 10 - 2 x 12 mm - PH-2, PH-3, PH-4 - HEX-4 - HEX-5 - HEX-6 - HEX-8 - HEX-10 - HEX-12      |
| 55994 | 1/2 |      | 12   | 1000 | 1 | 66807, 66808, 55704, 66809, 66810, 66811, 55705, 66812, 66813, 55706, 66814, 55707 | HEX-4 - HEX-5 - HEX-5,5 - HEX-6 - HEX-7 - HEX-8 - HEX-9,5 - HEX-10 - HEX-12 - HEX-13 - HEX-14 - HEX-19 |



| COD.  |     | inch | PCS. |     |   | COD. PCS.                                                     | Composición / Composition / Composition                         |
|-------|-----|------|------|-----|---|---------------------------------------------------------------|-----------------------------------------------------------------|
| 56179 | 1/2 |      | 9    | 950 | 1 | 65985, 65986, 65987, 65988, 65989, 65990, 65991, 65992, 65993 | M5-M6-M7-M8-M9-M10-M12-M14-M16 / M5-M6-M7-M8-M9-M10-M12-M14-M16 |

| COD.  |     | inch | PCS. |     |   | COD. PCS.                                              | Composición / Composition / Composition                                                  |
|-------|-----|------|------|-----|---|--------------------------------------------------------|------------------------------------------------------------------------------------------|
| 55998 | 1/2 |      | 8    | 750 | 1 | 55688, 55689, 55690, 55691, 55692, 55693, 55695, 55696 | HEX-7/32" - HEX-1/4" - HEX-5/16" - HEX-3/8" - HEX-7/16" - HEX-1/2" - HEX-5/8" - HEX-3/4" |
| 55995 |     |      |      | 650 |   | 66830, 66831, 66832, 66833, 66834, 66835, 66836, 66837 | T-20 - T-25 - T-27 - T-30 - T-40 - T-45 - T-50 - T-55                                    |

## 3/4"

## HEXAGONAL / HEXAGONAL / HEXAGONALE / HEXAGONAL / ESAGONALE / HEXAGONAL / ШЕСТИГРАННАЯ

| COD.  |  | mm | L (mm) |     |    |   |
|-------|--|----|--------|-----|----|---|
| 53167 |  | 14 |        | 310 |    |   |
| 53168 |  | 17 | 80     | 330 | 10 | ● |
| 53169 |  | 19 |        | 340 |    |   |
| 53170 |  | 22 |        | 390 |    |   |



## TORX®\*

| COD.  |       | L (mm) |     |    |   |
|-------|-------|--------|-----|----|---|
| 53161 | T-60  |        | 310 |    |   |
| 53162 | T-70  |        | 310 |    |   |
| 53163 | T-80  | 80     | 320 | 10 | ● |
| 53164 | T-90  |        | 350 |    |   |
| 53165 | T-100 |        | 350 |    |   |







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PUNTAS ATORNILLADORAS DE IMPACTO CON VASO / *IMPACT SOCKET BITS* / EMBOUTS DE VISSAGE CHOC À DOUILLE / *STECKSCHLÜSSEL BITS* / INSERTI A BUSSOLA  
IMPACT / PONTAS APARAFUSADORAS DE IMPACTO COM CHAVE DE CAIXA / ГОЛОВКИ-БИТЫ УДАРНЫЕ

3/8"





HEXAGONAL / *HEXAGONAL* / HEXAGONALE / *HEXAGONAL* / ESAGONALE / *HEXAGONAL* / ШЕСТИГРАННАЯ

MM

| COD.  | <br>mm | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 65920 | 3                                                                                       | 78     | 45                                                                                | 10                                                                                | ●                                                                                   |
| 65921 | 4                                                                                       |        | 50                                                                                |                                                                                   |                                                                                     |
| 65922 | 5                                                                                       |        | 55                                                                                |                                                                                   |                                                                                     |
| 65923 | 6                                                                                       |        | 65                                                                                |                                                                                   |                                                                                     |
| 65924 | 8                                                                                       |        | 85                                                                                |                                                                                   |                                                                                     |
| 65925 | 10                                                                                      |        | 100                                                                               |                                                                                   |                                                                                     |
| 65926 | 12                                                                                      |        | 120                                                                               |                                                                                   |                                                                                     |
| 65927 | 14                                                                                      |        |                                                                                   |                                                                                   |                                                                                     |







INCH.

| COD.  | <br>inch | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53172 | 3/16                                                                                      | 60     | 50                                                                                | 10                                                                                | ●                                                                                   |
| 53173 | 7/32                                                                                      |        | 70                                                                                |                                                                                   |                                                                                     |
| 53174 | 1/4                                                                                       |        | 75                                                                                |                                                                                   |                                                                                     |
| 53175 | 9/32                                                                                      |        | 80                                                                                |                                                                                   |                                                                                     |
| 53176 | 5/16                                                                                      |        | 90                                                                                |                                                                                   |                                                                                     |
| 53177 | 3/8                                                                                       |        | 100                                                                               |                                                                                   |                                                                                     |
| 53178 | 7/16                                                                                      |        | 115                                                                               |                                                                                   |                                                                                     |
| 53179 | 1/2                                                                                       |        | 120                                                                               |                                                                                   |                                                                                     |
| 53180 | 9/16                                                                                      |        |                                                                                   |                                                                                   |                                                                                     |
| 53181 | 5/8                                                                                       |        |                                                                                   |                                                                                   |                                                                                     |



TORX®\*





| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 65928 | T-25                                                                                | 60     | 40                                                                                  | 10                                                                                  | ●                                                                                     |
| 65929 | T-27                                                                                |        | 45                                                                                  |                                                                                     |                                                                                       |
| 65930 | T-30                                                                                |        | 50                                                                                  |                                                                                     |                                                                                       |
| 65931 | T-40                                                                                |        | 55                                                                                  |                                                                                     |                                                                                       |
| 65932 | T-45                                                                                |        | 65                                                                                  |                                                                                     |                                                                                       |
| 65933 | T-50                                                                                |        | 75                                                                                  |                                                                                     |                                                                                       |
| 65934 | T-55                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 65935 | T-60                                                                                |        |                                                                                     |                                                                                     |                                                                                       |



1/2"

HEXAGONAL / *HEXAGONAL* / HEXAGONALE / *HEXAGONAL* / ESAGONALE / *HEXAGONAL* / ШЕСТИГРАННАЯ

MM

| COD.  | <br>mm | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 65936 | 4                                                                                         | 78     | 80                                                                                  | 10                                                                                  | ●                                                                                     |
| 65937 | 5                                                                                         |        | 85                                                                                  |                                                                                     |                                                                                       |
| 65938 | 6                                                                                         |        | 95                                                                                  |                                                                                     |                                                                                       |
| 53183 | 7                                                                                         |        | 105                                                                                 |                                                                                     |                                                                                       |
| 65939 | 8                                                                                         |        | 110                                                                                 |                                                                                     |                                                                                       |
| 53184 | 9                                                                                         |        | 120                                                                                 |                                                                                     |                                                                                       |
| 65940 | 10                                                                                        |        | 125                                                                                 |                                                                                     |                                                                                       |
| 65941 | 11                                                                                        |        | 135                                                                                 |                                                                                     |                                                                                       |
| 65942 | 12                                                                                        |        |                                                                                     |                                                                                     |                                                                                       |
| 53185 | 13                                                                                        |        |                                                                                     |                                                                                     |                                                                                       |













06

**PUNTAS DE DESTORNILLADOR**  
**BITS**  
**EMBOUS DE VISSAGE**  
**BITS**  
**INSERTI**  
**PONTAS**  
**БИТЫ**







| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 65943 | 14                                                                                | 78     | 140                                                                               | 10                                                                                | ●                                                                                   |
| 53186 | 15                                                                                |        |                                                                                   |                                                                                   |                                                                                     |
| 65944 | 17                                                                                |        |                                                                                   |                                                                                   |                                                                                     |
| 53187 | 18                                                                                |        |                                                                                   |                                                                                   |                                                                                     |
| 65945 | 19                                                                                |        | 200                                                                               |                                                                                   |                                                                                     |

## INCH.

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53188 | 3/16                                                                              | 78     | 90                                                                                | 10                                                                                | ●                                                                                   |
| 53189 | 7/32                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 53190 | 1/4                                                                               |        |                                                                                   |                                                                                   |                                                                                     |
| 53191 | 9/32                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 53192 | 5/16                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 53193 | 3/8                                                                               |        |                                                                                   |                                                                                   |                                                                                     |
| 53194 | 7/16                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 53195 | 1/2                                                                               |        |                                                                                   |                                                                                   |                                                                                     |
| 53196 | 9/16                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 53197 | 5/8                                                                               |        |                                                                                   |                                                                                   |                                                                                     |
| 53198 | 11/16                                                                             |        |                                                                                   |                                                                                   |                                                                                     |
| 53199 | 3/4                                                                               | 210    |                                                                                   |                                                                                   |                                                                                     |







**HEXAGONAL SERIE LARGA / HEXAGONAL LONG / HEXAGONALE SÉRIE LONGUE / HEXAGONAL LANG / ESAGONALE SERIE LUNGA / HEXAGONAL SÉRIE LONGA / ШЕСТИГРАННАЯ ВЫСОКАЯ СЕРИЯ**

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 58660 | 5                                                                                   | 170    | 260                                                                                 | 10                                                                                  | ●                                                                                     |
| 58661 | 6                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |
| 58662 | 8                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |
| 58663 | 10                                                                                  |        |                                                                                     |                                                                                     |                                                                                       |
| 58664 | 12                                                                                  |        |                                                                                     |                                                                                     |                                                                                       |
| 58665 | 14                                                                                  |        | 430                                                                                 |                                                                                     |                                                                                       |



## TORX®\*





| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 65946 | T-25                                                                                | 78     | 75                                                                                  | 10                                                                                  | ●                                                                                     |
| 65947 | T-27                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 65948 | T-30                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 65949 | T-40                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 65950 | T-45                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 65951 | T-50                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 65952 | T-55                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 65953 | T-60                                                                                |        | 120                                                                                 |                                                                                     |                                                                                       |



## 3/4"

## HEXAGONAL / HEXAGONAL / HEXAGONALE / HEXAGONAL / ESAGONALE / HEXAGONAL / ШЕСТИГРАННАЯ

## MM

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 58731 | 10                                                                                  | 100    | 490                                                                                 | 10                                                                                  | ●                                                                                     |
| 58732 | 12                                                                                  |        |                                                                                     |                                                                                     |                                                                                       |
| 58733 | 14                                                                                  |        |                                                                                     |                                                                                     |                                                                                       |
| 58734 | 17                                                                                  |        |                                                                                     |                                                                                     |                                                                                       |
| 58735 | 19                                                                                  |        |                                                                                     |                                                                                     |                                                                                       |
| 58736 | 22                                                                                  |        | 600                                                                                 |                                                                                     |                                                                                       |



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06

**PUNTAS DE DESTORNILLADOR**  
**BITS**  
**EMBOUS DE VISSAGE**  
**BITS**  
**INSERTI**  
**PONTAS**  
**БИТЫ**







| COD.  | <br>mm | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 58737 | 24                                                                                      | 100    | 700                                                                               | 10                                                                                | ●                                                                                   |
| 58738 | 27                                                                                      |        |                                                                                   |                                                                                   |                                                                                     |
| 58739 | 30                                                                                      |        |                                                                                   |                                                                                   |                                                                                     |
| 58740 | 32                                                                                      |        |                                                                                   |                                                                                   |                                                                                     |

## INCH.

| COD.  | <br>inch | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53201 | 3/8                                                                                       | 100    | 480                                                                               | 10                                                                                | ●                                                                                   |
| 53202 | 7/16                                                                                      |        | 500                                                                               |                                                                                   |                                                                                     |
| 53203 | 1/2                                                                                       |        | 550                                                                               |                                                                                   |                                                                                     |
| 53204 | 9/16                                                                                      |        | 600                                                                               |                                                                                   |                                                                                     |
| 53205 | 5/8                                                                                       |        | 700                                                                               |                                                                                   |                                                                                     |
| 53206 | 11/16                                                                                     |        | 750                                                                               |                                                                                   |                                                                                     |
| 53207 | 3/4                                                                                       |        | 800                                                                               |                                                                                   |                                                                                     |
| 53208 | 13/16                                                                                     |        | 850                                                                               |                                                                                   |                                                                                     |
| 53209 | 7/8                                                                                       |        |                                                                                   |                                                                                   |                                                                                     |
| 53210 | 1                                                                                         |        |                                                                                   |                                                                                   |                                                                                     |
| 53211 | 1.1/16                                                                                    |        |                                                                                   |                                                                                   |                                                                                     |
| 53212 | 1.1/8                                                                                     |        |                                                                                   |                                                                                   |                                                                                     |
| 53213 | 1.3/16                                                                                    |        |                                                                                   |                                                                                   |                                                                                     |
| 53214 | 1.1/4                                                                                     |        |                                                                                   |                                                                                   |                                                                                     |



## TORX®\*





| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53216 | T-50                                                                                | 100    | 500                                                                                 | 10                                                                                  | ●                                                                                     |
| 53217 | T-55                                                                                |        | 550                                                                                 |                                                                                     |                                                                                       |
| 53218 | T-60                                                                                |        | 600                                                                                 |                                                                                     |                                                                                       |
| 53219 | T-70                                                                                |        | 700                                                                                 |                                                                                     |                                                                                       |
| 53220 | T-80                                                                                |        | 850                                                                                 |                                                                                     |                                                                                       |
| 53221 | T-90                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53222 | T-100                                                                               |        |                                                                                     |                                                                                     |                                                                                       |



## 1"





## HEXAGONAL / HEXAGONAL / HEXAGONALE / HEXAGONAL / ESAGONALE / HEXAGONAL / ШЕСТИГРАННАЯ

## MM

| COD.  | <br>mm | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 58741 | 10                                                                                        | 100    | 700                                                                                 | 10                                                                                  | ●                                                                                     |
| 58742 | 12                                                                                        |        |                                                                                     |                                                                                     |                                                                                       |
| 58743 | 14                                                                                        |        |                                                                                     |                                                                                     |                                                                                       |
| 58744 | 17                                                                                        |        |                                                                                     |                                                                                     |                                                                                       |
| 58745 | 19                                                                                        |        |                                                                                     |                                                                                     |                                                                                       |
| 58746 | 22                                                                                        |        |                                                                                     |                                                                                     |                                                                                       |
| 58747 | 24                                                                                        |        |                                                                                     |                                                                                     |                                                                                       |
| 58748 | 27                                                                                        |        |                                                                                     |                                                                                     |                                                                                       |
| 58749 | 30                                                                                        |        |                                                                                     |                                                                                     |                                                                                       |
| 58750 | 32                                                                                        |        |                                                                                     |                                                                                     |                                                                                       |



## INCH.

| COD.  | <br>inch | L (mm) |  |  |  |
|-------|---------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53234 | 3/8                                                                                         | 100    | 700                                                                                 | 10                                                                                  | ●                                                                                     |
| 53235 | 7/16                                                                                        |        |                                                                                     |                                                                                     |                                                                                       |
| 53236 | 1/2                                                                                         |        |                                                                                     |                                                                                     |                                                                                       |







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06

**PUNTAS DE DESTORNILLADOR**  
**BITS**  
**EMBOUTS DE VISSAGE**  
**BITS**  
**INSERTI**  
**PONTAS**  
**БИТЫ**



| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 53237 | 9/16                                                                              |        |                                                                                   |                                                                                   |                                                                                    |
| 53238 | 5/8                                                                               |        | 750                                                                               |                                                                                   |                                                                                    |
| 53239 | 11/16                                                                             |        |                                                                                   |                                                                                   |                                                                                    |
| 53240 | 3/4                                                                               |        | 800                                                                               |                                                                                   |                                                                                    |
| 53241 | 13/16                                                                             |        |                                                                                   |                                                                                   |                                                                                    |
| 53242 | 7/8                                                                               | 100    | 850                                                                               | 10                                                                                | •                                                                                  |
| 53243 | 1                                                                                 |        | 900                                                                               |                                                                                   |                                                                                    |
| 53244 | 1.1/16                                                                            |        | 950                                                                               |                                                                                   |                                                                                    |
| 53245 | 1.1/8                                                                             |        |                                                                                   |                                                                                   |                                                                                    |
| 53246 | 1.3/16                                                                            |        | 1000                                                                              |                                                                                   |                                                                                    |
| 53247 | 1.1/4                                                                             |        | 1050                                                                              |                                                                                   |                                                                                    |

## TORX\*\*





| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 53249 | T-50                                                                              |        | 700                                                                               |                                                                                   |                                                                                    |
| 53250 | T-55                                                                              |        | 750                                                                               |                                                                                   |                                                                                    |
| 53251 | T-60                                                                              |        | 850                                                                               |                                                                                   |                                                                                    |
| 53252 | T-70                                                                              | 100    | 900                                                                               | 10                                                                                | •                                                                                  |
| 53253 | T-80                                                                              |        | 950                                                                               |                                                                                   |                                                                                    |
| 53254 | T-90                                                                              |        | 1050                                                                              |                                                                                   |                                                                                    |
| 53255 | T-100                                                                             |        | 1150                                                                              |                                                                                   |                                                                                    |



## 1.1/2"

## HEXAGONAL / HEXAGONAL / HEXAGONALE / HEXAGONAL / ESAGONALE / HEXAGONAL / ШЕСТИГРАННАЯ

## MM

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 53257 | 17                                                                                  | 105    | 2,3                                                                                 |                                                                                     |                                                                                      |
| 53258 | 18                                                                                  |        | 2,3                                                                                 |                                                                                     |                                                                                      |
| 53259 | 19                                                                                  |        |                                                                                     |                                                                                     |                                                                                      |
| 53260 | 20                                                                                  |        |                                                                                     |                                                                                     |                                                                                      |
| 53261 | 21                                                                                  |        | 2,3                                                                                 |                                                                                     |                                                                                      |
| 53262 | 22                                                                                  |        |                                                                                     |                                                                                     |                                                                                      |
| 53263 | 23                                                                                  | 110    |                                                                                     |                                                                                     |                                                                                      |
| 53264 | 24                                                                                  |        | 2,4                                                                                 |                                                                                     |                                                                                      |
| 53265 | 25                                                                                  |        |                                                                                     |                                                                                     |                                                                                      |
| 53266 | 26                                                                                  |        | 2,5                                                                                 |                                                                                     |                                                                                      |
| 53267 | 27                                                                                  |        |                                                                                     |                                                                                     |                                                                                      |
| 53268 | 28                                                                                  |        |                                                                                     |                                                                                     |                                                                                      |
| 53269 | 29                                                                                  |        | 2,6                                                                                 |                                                                                     |                                                                                      |
| 53270 | 30                                                                                  |        |                                                                                     |                                                                                     |                                                                                      |
| 53271 | 31                                                                                  | 115    |                                                                                     | 1                                                                                   | -                                                                                    |
| 53272 | 32                                                                                  |        | 2,7                                                                                 |                                                                                     |                                                                                      |
| 53273 | 33                                                                                  |        |                                                                                     |                                                                                     |                                                                                      |
| 53274 | 34                                                                                  |        |                                                                                     |                                                                                     |                                                                                      |
| 53275 | 35                                                                                  |        | 2,8                                                                                 |                                                                                     |                                                                                      |
| 53276 | 36                                                                                  | 120    |                                                                                     |                                                                                     |                                                                                      |
| 53277 | 37                                                                                  |        |                                                                                     |                                                                                     |                                                                                      |
| 53278 | 38                                                                                  |        | 2,9                                                                                 |                                                                                     |                                                                                      |
| 53279 | 39                                                                                  |        |                                                                                     |                                                                                     |                                                                                      |
| 53280 | 40                                                                                  |        | 3,0                                                                                 |                                                                                     |                                                                                      |
| 53281 | 41                                                                                  | 125    | 3,1                                                                                 |                                                                                     |                                                                                      |
| 53282 | 42                                                                                  |        |                                                                                     |                                                                                     |                                                                                      |
| 53283 | 43                                                                                  |        | 3,3                                                                                 |                                                                                     |                                                                                      |
| 53284 | 44                                                                                  |        |                                                                                     |                                                                                     |                                                                                      |
| 53285 | 45                                                                                  | 130    | 3,4                                                                                 |                                                                                     |                                                                                      |







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# 06

**PUNTAS DE DESTORNILLADOR**  
**BITS**  
**EMBOUTS DE VISSAGE**  
**BITS**  
**INSERTI**  
**PONTAS**  
**БИТЫ**



| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 53286 | 46                                                                                | 130    | 3,4                                                                               |                                                                                   |                                                                                    |
| 53287 | 50                                                                                | 135    | 3,9                                                                               | 1                                                                                 | -                                                                                  |
| 53288 | 55                                                                                | 140    | 4,5                                                                               |                                                                                   |                                                                                    |

## INCH.

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 53289 | 11/16                                                                             | 105    |                                                                                   |                                                                                   |                                                                                    |
| 53290 | 3/4                                                                               |        | 2,3                                                                               |                                                                                   |                                                                                    |
| 53291 | 13/16                                                                             |        |                                                                                   |                                                                                   |                                                                                    |
| 53292 | 7/8                                                                               | 110    |                                                                                   |                                                                                   |                                                                                    |
| 53293 | 15/16                                                                             |        | 2,4                                                                               |                                                                                   |                                                                                    |
| 53294 | 1                                                                                 |        | 2,5                                                                               |                                                                                   |                                                                                    |
| 53295 | 1.1/16                                                                            |        |                                                                                   |                                                                                   |                                                                                    |
| 53296 | 1.1/8                                                                             |        | 2,6                                                                               |                                                                                   |                                                                                    |
| 53297 | 1.3/16                                                                            | 115    | 2,7                                                                               |                                                                                   |                                                                                    |
| 53298 | 1.1/4                                                                             |        |                                                                                   |                                                                                   |                                                                                    |
| 53299 | 1.5/16                                                                            |        |                                                                                   |                                                                                   |                                                                                    |
| 53300 | 1.3/8                                                                             |        | 2,8                                                                               | 1                                                                                 | -                                                                                  |
| 53301 | 1.7/16                                                                            | 120    |                                                                                   |                                                                                   |                                                                                    |
| 53302 | 1.1/2                                                                             |        | 2,9                                                                               |                                                                                   |                                                                                    |
| 53303 | 1.9/16                                                                            |        | 3,0                                                                               |                                                                                   |                                                                                    |
| 53304 | 1.5/8                                                                             | 125    | 3,1                                                                               |                                                                                   |                                                                                    |
| 53305 | 1.11/16                                                                           |        | 3,3                                                                               |                                                                                   |                                                                                    |
| 53306 | 1.3/4                                                                             |        |                                                                                   |                                                                                   |                                                                                    |
| 53307 | 1.13/16                                                                           | 130    | 3,4                                                                               |                                                                                   |                                                                                    |
| 53308 | 1.7/8                                                                             |        | 3,7                                                                               |                                                                                   |                                                                                    |
| 53309 | 1.15/16                                                                           | 135    | 3,8                                                                               |                                                                                   |                                                                                    |
| 53310 | 2                                                                                 |        | 3,9                                                                               |                                                                                   |                                                                                    |
| 53311 | 2.3/16                                                                            | 140    | 4,5                                                                               |                                                                                   |                                                                                    |



7

**LLAVES AJUSTABLES**  
**ADJUSTABLE WRENCHES**  
**CLÉS À MOLETTE**  
**ROLLGABELSCHLÜSSEL**  
**CHIAVI REGOLABILI A RULLINO**  
**CHAVES AJUSTAVEIS**  
**РАЗВОДНЫЕ КЛЮЧИ**



## Premio a la Innovación Certamen Metalmaq

Lisboa 2001

## Innovation Award Metalmaq

Lisbon 2001

## Prix a l'Innovation Metalmaq

Lisbonne 2001



## Medalla de Oro Salón Internacional de la Invención

París 2004

## Gold Medal International Inventors Competition

Paris 2004

## Medaille d'Or Salon International de l'Invention

Paris 2004

## Premio Especial Unión Francesa de Inventores

2003

## Special Prize French Inventors Association

2003

## Prix Spécial L'Union Française des Inventeurs

2003



## Medalla de Plata Mundial de la Invención en Innovación

2003

## Silver Medal World Innovation and Invention Congress

2003

## Médaille d'Argent Mondial de l'Invention et d'Innovation

2003



## Elegida para la exposición "La Utilidad del Diseño" del **Círculo de Bellas Artes**

2008

## The Fine Arts Circle of Spain choses the Basque Wrench for its "Usefulness of Design" exhibition

2008

## Élue pour l'exposition « l'Utilité du Dessin » du **Cercle des Beaux Arts**

2008

**EGA Master fabrica la más amplia gama de llaves ajustables del mundo, de distintos tamaños, tipos e innovaciones exclusivas a nivel mundial: ajustables, combi, con acción rápida, con o sin mango Comfort, de moleta lateral, aisladas 1000 V, a izquierdas, de boca ancha, Titacrom® o fosfatadas.**

*EGA Master manufactures the widest range of adjustable wrenches in the world, with all kinds of sizes, types, and exclusive innovations: adjustable, combi, quick action, with or without Comfort handle, with lateral nut, 1000V safety insulated, left turn, wide opening, Titacrom® or phosphated.*

**EGA Master fabrique la plus grande gamme de clés à molette au monde, avec toutes sortes de dimensions et avec des innovations exclusives au niveau mondial: ajustables, combi, avec action rapide ou non, avec ou sans manche Comfort, à molette latérale, isolées 1000 v, tourne à gauche, de grande ouverture, Titacrom® ou bruni.**

1

Acción rápida para un rápido posicionamiento de la medida.

*Quick action system enables fast positioning.*

Action rapide pour un positionnement plus simple de la mesure souhaitée.

2

Sistema Combi permite trabajar con elementos poligonales, tubo o tuercas desgastadas.

*Combi system for working with polygonal elements, pipes or rounded-off nuts.*

Système Combi qui permet de travailler avec des éléments polygonaux, des tubes et des écrous détériorés.

3

Máxima apertura y mínimo espesor de bocas para una máxima operatividad.

*Maximum opening and minimum jaw thickness for best accessibility.*

Ouverture maximum et épaisseur minimum des mâchoires pour une action optimale.

4

TITACROM® - tratamiento superficial especial, resistente a la corrosión y a los golpes y roces, es anti-reflectante y de gran atractivo.

*TITACROM® - special surface treatment, rust-proof and anti-chipping off, it is non-reflecting and with very attractive finishing.*

TITACROM® - traitement spécial de surface, résistant à la corrosion et aux coups, anti-réfléchissant et de grand attrait avec un manche confortable et anti-dérapant.

5

Mango Comfort bi-componente antideslizante para máxima comodidad y de gran atractivo.

*Comfort bi-component anti-slippery handle for best comfortability and great attractive design.*

Manche Comfort bi matières anti-dérapant pour une meilleure commodité et une meilleure esthétique.

6

Diseño reforzado para trabajos pesados que multiplica su resistencia al apriete.

*Heavy Duty Performance to provide maximum resistance to high torque.*

Conception renforcée qui permet une résistance au serrage pour les travaux lourds.

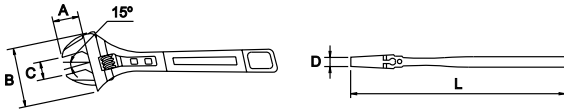
7

Patente mundial.  
Worldwide patent.  
Brevet mondial.



**LLAVES AJUSTABLES / ADJUSTABLE WRENCHES / CLÉS À MOLETTE / ROLLGABELSCHLÜSSEL / CHIAVI REGOLABILI A RULLINO / CHAVES AJUSTAVEIS / РАЗВОДНЫЕ КЛЮЧИ**

**TITACROM®**



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |    |   |
|-------|----------|--------|--------|--------|--------|--------|-----|----|---|
| 61109 | 4        | 100    | 13     | 34     | 13     | 5,5    | 70  | 12 |   |
| 61110 | 6        | 150    | 20     | 47     | 19     | 6,5    | 150 |    |   |
| 61111 | 8        | 200    | 25     | 55     | 24     | 7      | 280 | 10 | ● |
| 61112 | 10       | 250    | 30     | 70     | 29     | 8,5    | 500 |    |   |
| 61113 | 12       | 300    | 35     | 85     | 33     | 10     | 850 | 8  |   |

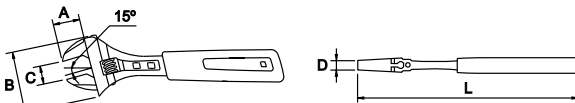


**TITACROM®** | Modelo registrado / Registered model / Modèle enregistré

| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |      |   |   |
|-------|----------|--------|--------|--------|--------|--------|------|---|---|
| 61114 | 15       | 380    | 44     | 105    | 45     | 13     | 1200 |   |   |
| 61115 | 18       | 450    | 50     | 120    | 55     | 14     | 2000 | 1 | ● |
| 61116 | 24       | 600    | 60     |        | 60     | 15     | 3100 |   |   |
| 62980 | 30       | 750    | 75     | 180    | 85     | 17     | 5600 |   | - |

**TITACROM®** | Modelo registrado / Registered model / Modèle enregistré

**COMFORT**



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |   |   |
|-------|----------|--------|--------|--------|--------|--------|-----|---|---|
| 61906 | 6        | 150    | 20     | 47     | 19     | 6,5    | 180 |   |   |
| 61907 | 8        | 200    | 25     | 55     | 24     | 7      | 330 |   |   |
| 61908 | 10       | 250    | 30     | 70     | 29     | 8,5    | 600 | 6 | ● |
| 61909 | 12       | 300    | 35     | 85     | 33     | 10     | 900 |   |   |

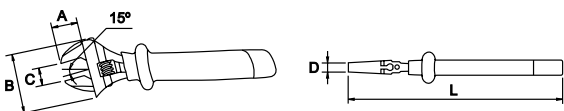


**TITACROM® COMFORT** | Modelo registrado / Registered model / Modèle enregistré

| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |      |   |   |
|-------|----------|--------|--------|--------|--------|--------|------|---|---|
| 61370 | 15       | 375    | 44     | 105    | 45     | 13     | 1250 |   |   |
| 61371 | 18       | 450    | 50     | 120    | 55     | 14     | 2050 | 1 | ● |
| 61372 | 24       | 600    | 60     |        | 62     | 15     | 3150 |   |   |

**TITACROM® COMFORT** | Modelo registrado / Registered model / Modèle enregistré

**1000V**

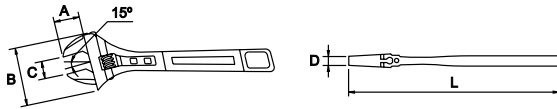


| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |   |   |
|-------|----------|--------|--------|--------|--------|--------|-----|---|---|
| 76550 | 6        | 150    | 20     | 47     | 19     | 6,5    | 200 |   |   |
| 76551 | 8        | 200    | 25     | 55     | 24     | 7      | 360 |   |   |
| 76552 | 10       | 250    | 30     | 70     | 29     | 8,5    | 600 | 4 | ● |
| 76553 | 12       | 300    | 35     | 85     | 33,5   | 10     | 950 |   |   |



**TITACROM®** 1000V | IEC 60900 | Modelo registrado / Registered model / Modèle enregistré

■ **FOSFATADA / PHOSPHATED / PHOSPHATÉE BRUNIE / PHOSPHATIERT / FINITURA BRUNITA / BRUNIDA / ЧЕРНЕННЫЙ**



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |    |   |
|-------|----------|--------|--------|--------|--------|--------|-----|----|---|
| 61136 | 4        | 100    | 13     | 34     | 13     | 5,5    | 70  | 12 |   |
| 61117 | 6        | 150    | 20     | 47     | 19     | 6,5    | 160 |    |   |
| 61118 | 8        | 200    | 25     | 55     | 24     | 7      | 310 | 10 | ● |
| 61119 | 10       | 250    | 30     | 70     | 29     | 8,5    | 550 |    |   |
| 61120 | 12       | 300    | 35     | 85     | 33     | 10     | 850 | 8  |   |

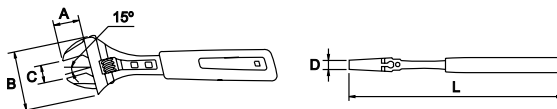
Modelo registrado / Registered model / Modèle enregistré

| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |      |   |   |
|-------|----------|--------|--------|--------|--------|--------|------|---|---|
| 61121 | 15       | 375    | 44     | 105    | 45     | 13     | 1200 |   |   |
| 61122 | 18       | 450    | 50     | 120    | 55     | 14     | 2000 | 1 | ● |
| 61123 | 24       | 600    | 60     |        | 62     | 15     | 3100 |   |   |

Modelo registrado / Registered model / Modèle enregistré



■ **COMFORT**



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |   |   |
|-------|----------|--------|--------|--------|--------|--------|-----|---|---|
| 61898 | 6        | 150    | 20     | 47     | 19     | 6,5    | 180 |   |   |
| 61910 | 8        | 200    | 25     | 55     | 24     | 7      | 330 | 6 | ● |
| 61911 | 10       | 250    | 30     | 70     | 29     | 8,5    | 600 |   |   |
| 61912 | 12       | 300    | 35     | 85     | 33     | 10     | 900 |   |   |

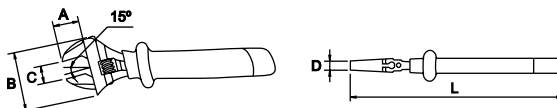
**COMFORT** | Modelo registrado / Registered model / Modèle enregistré

| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |      |   |   |
|-------|----------|--------|--------|--------|--------|--------|------|---|---|
| 61373 | 15       | 375    | 44     | 105    | 45     | 13     | 1250 |   |   |
| 61374 | 18       | 450    | 50     | 120    | 55     | 14     | 2050 | 1 | ● |
| 61375 | 24       | 600    | 60     |        | 60     | 15     | 3150 |   |   |

**COMFORT** | Modelo registrado / Registered model / Modèle enregistré



■ **1000V**



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |      |   |   |
|-------|----------|--------|--------|--------|--------|--------|------|---|---|
| 76554 | 6        | 150    | 20     | 47     | 19     | 6,5    | 195  |   |   |
| 76555 | 8        | 200    | 25     | 55     | 24     | 7      | 370  | 4 | ● |
| 76556 | 10       | 250    | 30     | 70     | 29     | 8,5    | 650  |   |   |
| 76557 | 12       | 300    | 35     | 85     | 33     | 10     | 1050 |   |   |

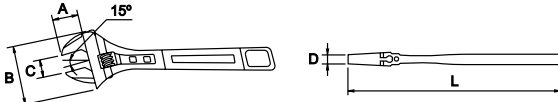
**1000V** | IEC 60900 | Modelo registrado / Registered model / Modèle enregistré





■ SCANDINAVIAN TYPE / LEFT TURN

■ FOSFATADA / PHOSPHATED / PHOSPHATÉE BRUNIE / PHOSPHATIERT / FINITURA BRUNITA / BRUNIDA / ЧЕРНЕННЫЙ

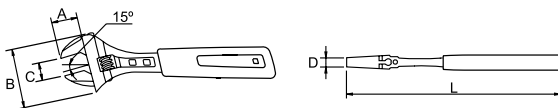


| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |    |   |
|-------|----------|--------|--------|--------|--------|--------|-----|----|---|
| 60550 | 6        | 150    | 20     | 47     | 19     | 6,5    | 160 | 10 | ● |
| 60552 | 10       | 250    | 30     | 70     | 29     | 8,5    | 550 | 8  | ● |
| 60553 | 12       | 300    | 35     | 85     | 33,5   | 10     | 850 | 8  | ● |

Modelo registrado / Registered model / Modèle enregistré | SCANDINAVIAN - LEFT TURN



■ COMFORT



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |   |   |
|-------|----------|--------|--------|--------|--------|--------|-----|---|---|
| 60548 | 6        | 150    | 20     | 47     | 19     | 6,5    | 180 | 6 | ● |
| 60558 | 10       | 250    | 30     | 70     | 29     | 8,5    | 595 | 6 | ● |
| 60559 | 12       | 300    | 35     | 85     | 33     | 10     | 900 | 6 | ● |

COMFORT | Modelo registrado / Registered model / Modèle enregistré | SCANDINAVIAN - LEFT TURN



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |      |   |   |
|-------|----------|--------|--------|--------|--------|--------|------|---|---|
| 60562 | 24       | 600    | 60     | 120    | 62     | 15     | 3150 | 1 | ● |

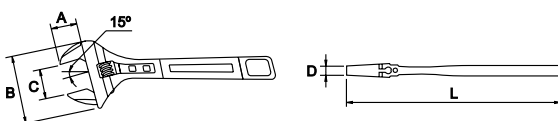
COMFORT | Modelo registrado / Registered model / Modèle enregistré | SCANDINAVIAN - LEFT TURN

■ PLUMBINGWRENCH



■ AJUSTABLES GRAN APERTURA / WIDE OPENING ADJUSTABLES / CLÉ À MOLETTE GRAND OUVERTURE / ROLLGABELSCHLÜSSEL MIT WEITEN ÖFFNUNG / REGOLABILE GRANDE APERTURA / AJUSTÁVEL GRANDE ABERTURA / ШИРОКОРАЗВОДИМЫЙ

■ TITACROM®

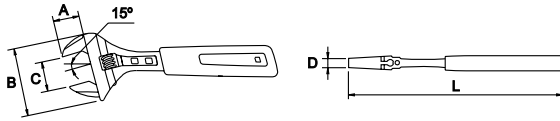


| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |    |   |
|-------|----------|--------|--------|--------|--------|--------|-----|----|---|
| 61229 | 6        | 150    | 28     | 60     | 35     | 6      | 180 | 10 | ● |
| 61213 | 8        | 200    | 33     | 75     | 41     | 6,5    | 430 | 10 | ● |

TITACROM® | Modelo registrado / Registered model / Modèle enregistré



**COMFORT**

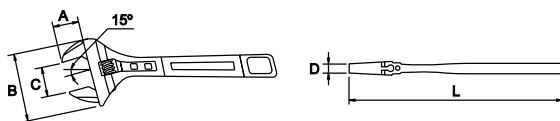


| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   | Icon 1 | Icon 2 |
|-------|----------|--------|--------|--------|--------|--------|-----|--------|--------|
| 61230 | 6        | 150    | 28     | 60     | 35     | 6      | 195 | 10     | •      |
| 61214 | 8        | 200    | 33     | 75     | 41     | 6,5    | 450 | 10     | •      |

**TITACROM® COMFORT** | Modelo registrado / Registered model / Modèle enregistré



**FOSFATADA / PHOSPHATED / PHOSPHATÉE BRUNIE / PHOSPHATIERT / FINITURA BRUNITA / BRUNIDA / ЧЕРНЕННЫЙ**

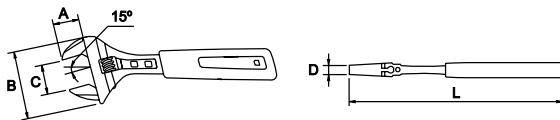


| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   | Icon 1 | Icon 2 |
|-------|----------|--------|--------|--------|--------|--------|-----|--------|--------|
| 61231 | 6        | 150    | 28     | 60     | 35     | 6      | 180 | 10     | •      |
| 61215 | 8        | 200    | 33     | 75     | 41     | 6,5    | 430 | 10     | •      |

Modelo registrado / Registered model / Modèle enregistré



**COMFORT**



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   | Icon 1 | Icon 2 |
|-------|----------|--------|--------|--------|--------|--------|-----|--------|--------|
| 61232 | 6        | 150    | 28     | 60     | 35     | 6      | 195 | 10     | •      |
| 61216 | 8        | 200    | 33     | 75     | 41     | 6,5    | 450 | 10     | •      |

**COMFORT** | Modelo registrado / Registered model / Modèle enregistré

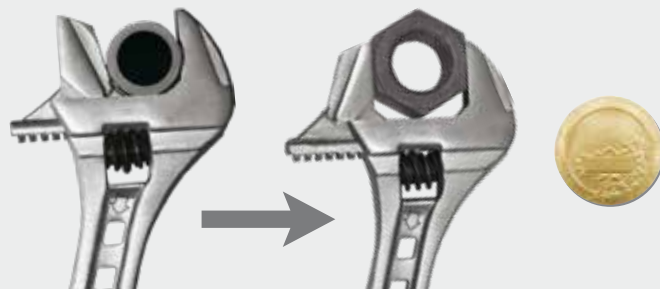


**COMBI / COMBI / COMBI / KOMBI / COMBI / COMBI / КОМБИ**

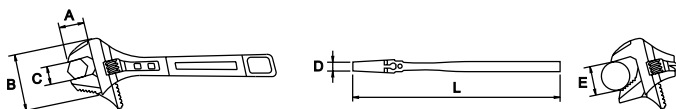
Llave ajustable con mordaza móvil reversible, para uso en elementos poligonales (tuercas) y cilíndricas (tubo)

Adjustable wrench with reversible movable jaw to use in polygonal elements (nuts) and cylindrical (pipes)

Clé à molette avec mâchoire mobile réversible, pour l'utilisation dans des éléments polygonaux (écrous) et cylindriques (tube)



**TITACROM®**

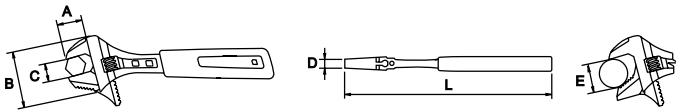


| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   | Icon 1 | Icon 2 |
|-------|----------|--------|--------|--------|--------|--------|--------|-----|--------|--------|
| 61942 | 10       | 250    | 30     | 70     | 29     | 8,5    | 1.1/4  | 550 | 10     | •      |
| 61943 | 12       | 300    | 35     | 80     | 33     | 10     | 1.1/2  | 850 | 8      | •      |

**TITACROM®** | Modelo registrado / Registered model / Modèle enregistré



## COMFORT

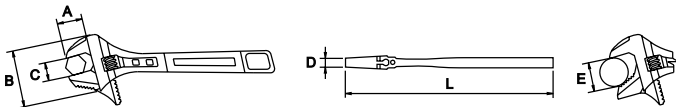


| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   | Icon 1 | Icon 2 |
|-------|----------|--------|--------|--------|--------|--------|--------|-----|--------|--------|
| 61944 | 10       | 250    | 30     | 70     | 29     | 8,5    | 1.1/4  | 600 |        | 6      |
| 61945 | 12       | 300    | 35     | 80     | 33     | 10     | 1.1/2  | 900 |        | •      |



**TITACROM® COMFORT** | Modelo registrado / Registered model / Modèle enregistré

## FOSFATADA / PHOSPHATED / PHOSPHATÉE BRUNIE / PHOSPHATIERT / FINITURA BRUNITA / BRUNIDA / ЧЕРНЕННЫЙ

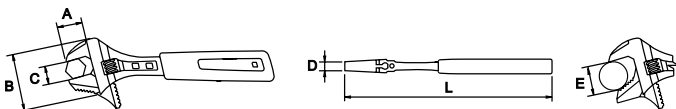


| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   | Icon 1 | Icon 2 |
|-------|----------|--------|--------|--------|--------|--------|--------|-----|--------|--------|
| 61946 | 10       | 250    | 30     | 70     | 29     | 8,5    | 1.1/4  | 550 |        | 10     |
| 61947 | 12       | 300    | 35     | 80     | 33     | 10     | 1.1/2  | 850 |        | •      |



**TITACROM®** | Modelo registrado / Registered model / Modèle enregistré

## COMFORT



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   | Icon 1 | Icon 2 |
|-------|----------|--------|--------|--------|--------|--------|--------|-----|--------|--------|
| 61948 | 10       | 250    | 30     | 70     | 29     | 8,5    | 1.1/4  | 600 |        | 6      |
| 61949 | 12       | 300    | 35     | 80     | 33,5   | 10     | 1.1/2  | 900 |        | •      |



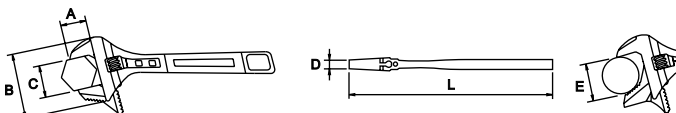
**TITACROM® COMFORT** | Modelo registrado / Registered model / Modèle enregistré

## COMBI PLUMBINGWRENCH



## AJUSTABLES GRAN APERTURA / WIDE OPENING ADJUSTABLES / CLÉ À MOLETTE GRAND OUVERTURE / ROLLGABELSCHLÜSSEL MIT WEITEN ÖFFNUNG / REGOLABILE GRANDE APERTURA / AJUSTÁVEL GRANDE ABERTURA / ШИРОКОРАЗВОДИМЫЙ

## TITACROM®

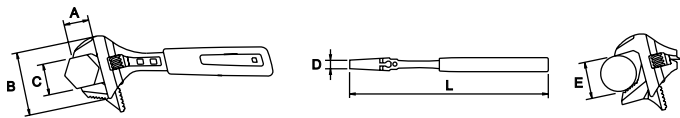


| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   | Icon 1 | Icon 2 |
|-------|----------|--------|--------|--------|--------|--------|--------|-----|--------|--------|
| 61237 | 8        | 200    | 33     | 75     | 41     | 6,5    | 1.1/4  | 430 |        | 10     |



**TITACROM®** | Modelo registrado / Registered model / Modèle enregistré

**COMFORT**

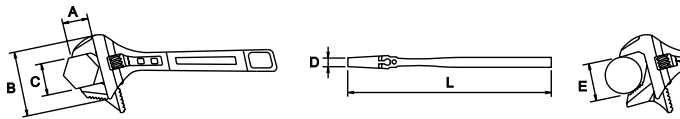


| COD.         | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   | Icon 1 | Icon 2 |
|--------------|----------|--------|--------|--------|--------|--------|--------|-----|--------|--------|
| <b>61238</b> | 8        | 200    | 33     | 75     | 41     | 6,5    | 1.1/4  | 450 | 10     | ●      |

**TITACROM® COMFORT** | Modelo registrado / Registered model / Modèle enregistré



**FOSFATADA / PHOSPHATED / PHOSPHATÉE BRUNIE / PHOSPHATIERT / FINITURA BRUNITA / BRUNIDA / ЧЕРНЕННЫЙ**

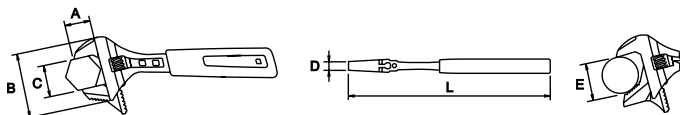


| COD.         | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   | Icon 1 | Icon 2 |
|--------------|----------|--------|--------|--------|--------|--------|--------|-----|--------|--------|
| <b>61239</b> | 8        | 200    | 33     | 75     | 41     | 6,5    | 1.1/4  | 430 | 10     | ●      |

**Modelo registrado / Registered model / Modèle enregistré**



**COMFORT**



| COD.         | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   | Icon 1 | Icon 2 |
|--------------|----------|--------|--------|--------|--------|--------|--------|-----|--------|--------|
| <b>61240</b> | 8        | 200    | 33     | 75     | 41     | 6,5    | 1.1/4  | 450 | 10     | ●      |

**COMFORT** | Modelo registrado / Registered model / Modèle enregistré



**ALAVESA COMBI / BASQUE COMBI / BASQUE COMBI / BASKISCHER KOMBI / BASCA COMBI / VASCA COMBI / ТИП БАСКИЙ КОМБИ**

**PATENTADA / PATENTED / BREVETÉE / PATENTIERT / BREVETTATO / PATENTEADA / ЗАПАТЕНТОВАННЫЙ**

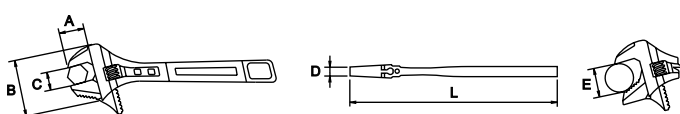


Llave ajustable con mordaza móvil reversible, para uso en elementos poligonales (tuercas) y cilíndricas (tubo) y con sistema de acción de apertura rápida patentada

Adjustable wrench with reversible movable jaw to use in polygonal elements (nuts) and cylindrical (pipes), and with patented quick opening action system

Clé à molette avec mâchoire mobile réversible, pour l'utilisation avec des éléments polygonaux (écrous) et cylindriques (tube) et avec un système d'ouverture rapide breveté

**TITACROM®**

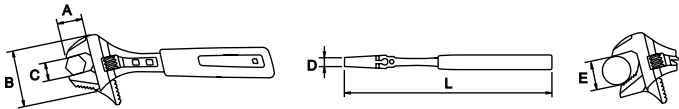


| COD.         | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   | Icon 1 | Icon 2 |
|--------------|----------|--------|--------|--------|--------|--------|--------|-----|--------|--------|
| <b>61934</b> | 10       | 250    | 30     | 70     | 29     | 8,5    | 1.1/4  | 550 | 10     | ●      |
| <b>61935</b> | 12       | 300    | 35     | 80     | 33     | 10     | 1.1/2  | 850 | 8      | ●      |

**TITACROM®** | Patente mundial / World patent / Brevet mondial



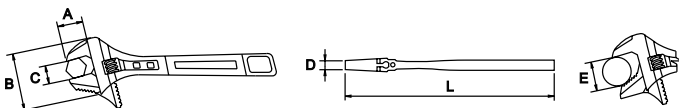
COMFORT



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   | Icon 1 | Icon 2 |
|-------|----------|--------|--------|--------|--------|--------|--------|-----|--------|--------|
| 61936 | 10       | 250    | 30     | 70     | 29     | 8,5    | 1.1/4  | 600 | 6      | •      |
| 61937 | 12       | 300    | 35     | 80     | 33     | 10     | 1.1/2  | 900 | 6      | •      |

**TITACROM® COMFORT** | Patente mundial / World patent / Brevet mondial

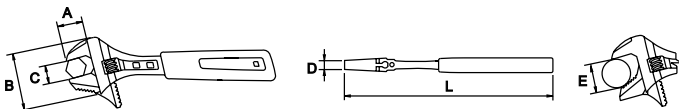
FOSFATADA / PHOSPHATED / PHOSPHATÉE BRUNIE / PHOSPHATIERT / FINITURA BRUNITA / BRUNIDA / ЧЕРНЕННЫЙ



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   | Icon 1 | Icon 2 |
|-------|----------|--------|--------|--------|--------|--------|--------|-----|--------|--------|
| 61938 | 10       | 250    | 30     | 70     | 29     | 8,5    | 1.1/4  | 550 | 10     | •      |
| 61939 | 12       | 300    | 35     | 80     | 33     | 10     | 1.1/2  | 850 | 8      | •      |

Patente mundial / World patent / Brevet mondial

COMFORT



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   | Icon 1 | Icon 2 |
|-------|----------|--------|--------|--------|--------|--------|--------|-----|--------|--------|
| 61940 | 10       | 250    | 30     | 70     | 29     | 8,5    | 1.1/4  | 600 | 6      | •      |
| 61941 | 12       | 300    | 35     | 80     | 33     | 10     | 1.1/2  | 900 | 6      | •      |

**COMFORT** | Patente mundial / World patent / Brevet mondial

**EGAMaster**  
 ART IN INNOVATION

**ALAVESA COMBI PLUMBINGWRENCH / BASQUE COMBI PLUMBINGWRENCH / BASQUE COMBI PLUMBINGWRENCH / BASKISCHER KOMBI PLUMBINGWRENCH / BASCA COMBI PLUMBINGWRENCH / VASCA COMBI PLUMBINGWRENCH / ТИП БАСКИЙ КОМБИ PLUMBINGWRENCH**

PATENTADA / PATENTED / BREVETEE / PATENTIERT / BREVETTATO / PATENTEADA / ЗАПАТЕНТОВАННЫЙ



Llave ajustable con mordaza móvil reversible, para uso en elementos poligonales (tuercas) y cilíndricas (tubo) y con sistema de acción de apertura rápida patentada

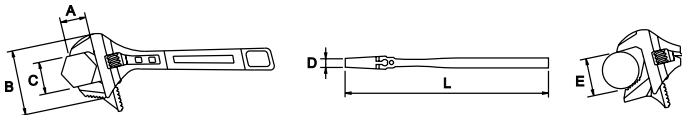
Adjustable wrench with reversible movable jaw to use in polygonal elements (nuts) and cylindrical (pipes), and with patented quick opening action system

Clé à molette avec mâchoire mobile réversible, pour l'utilisation avec des éléments polygonaux (écrous) et cylindriques (tube) et avec un système d'ouverture rapide breveté



**AJUSTABLES GRAN APERTURA / WIDE OPENING ADJUSTABLES / CLÉ À MOLETTE GRAND OUVERTURE / ROLLGABELSCHLÜSSEL MIT WEITEN ÖFFNUNG / REGOLABILE GRANDE APERTURA / AJUSTÁVEL GRANDE ABERTURA / ШИРОКОРАЗВОДИМЫЙ**

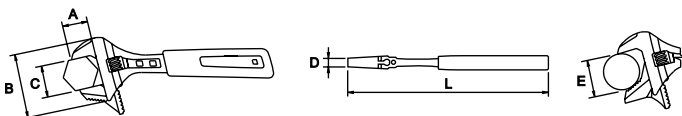
**TITACROM®**



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   | Icon 1 | Icon 2 |
|-------|----------|--------|--------|--------|--------|--------|--------|-----|--------|--------|
| 61221 | 8        | 200    | 33     | 75     | 41     | 6,5    | 1.1/4  | 430 | 10     | ●      |

**TITACROM®** | Patente mundial / World patent / Brevet mondial

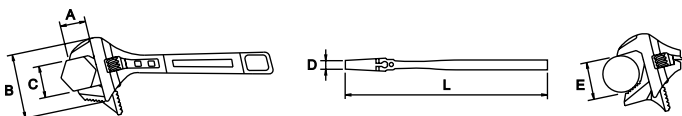
**COMFORT**



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   | Icon 1 | Icon 2 |
|-------|----------|--------|--------|--------|--------|--------|--------|-----|--------|--------|
| 61222 | 8        | 200    | 33     | 75     | 41     | 6,5    | 1.1/4  | 450 | 10     | ●      |

**TITACROM® COMFORT** | Patente mundial / World patent / Brevet mondial

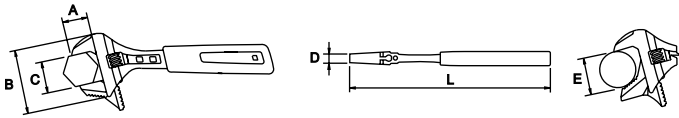
**FOSFATADA / PHOSPHATED / PHOSPHATÉE BRUNIE / PHOSPHATIERT / FINITURA BRUNITA / BRUNIDA / ЧЕРНЕННЫЙ**



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   | Icon 1 | Icon 2 |
|-------|----------|--------|--------|--------|--------|--------|--------|-----|--------|--------|
| 61223 | 8        | 200    | 33     | 75     | 41     | 6,5    | 1.1/4  | 430 | 10     | ●      |

**●** | Patente mundial / World patent / Brevet mondial

**COMFORT**

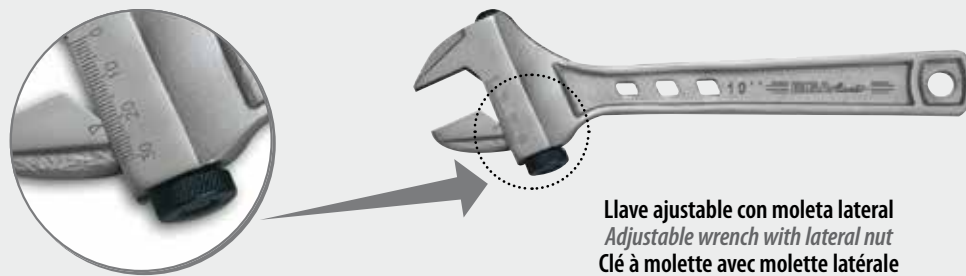


| COD.         | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   | Icon 1 | Icon 2 |
|--------------|----------|--------|--------|--------|--------|--------|--------|-----|--------|--------|
| <b>61224</b> | 8        | 200    | 33     | 75     | 41     | 6,5    | 1.1/4  | 450 | 10     | ●      |

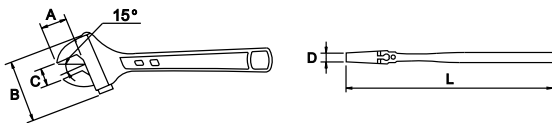
**COMFORT** | Patente mundial / World patent / Brevet mondial



**MOLETA LATERAL / LATERAL NUT / MOLETTE LATÉRALE / MIT SCHNECKENROLLE / RULLINO LATERALE / MOLETA LATERAL / РИГУЛИРОВОЧНАЯ ШАЙБА**



Llave ajustable con moleta lateral  
 Adjustable wrench with lateral nut  
 Clé à molette avec molette latérale

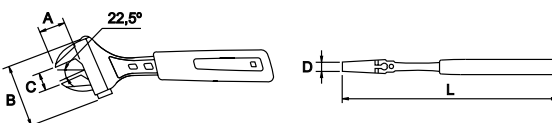


| COD.         | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   | Icon 1 | Icon 2 |
|--------------|----------|--------|--------|--------|--------|--------|-----|--------|--------|
| <b>58126</b> | 6        | 150    | 23     | 53     | 24     |        | 150 |        |        |
| <b>58127</b> | 8        | 200    | 26,5   | 66     | 28,5   | 6,5    | 275 | 6      | ●      |
| <b>58128</b> | 10       | 250    | 31     | 80     | 33     | 8      | 475 |        |        |
| <b>58129</b> | 12       | 300    | 39     | 94     | 38     | 9,5    | 820 |        |        |



**TITACROM®**

**COMFORT**

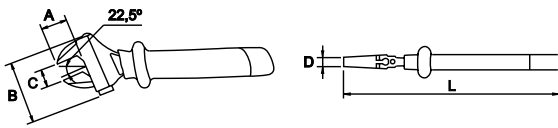


| COD.         | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   | Icon 1 | Icon 2 |
|--------------|----------|--------|--------|--------|--------|--------|-----|--------|--------|
| <b>61061</b> | 8        | 200    | 24     | 65     | 24     | 9,5    | 310 | 6      | ●      |
| <b>61062</b> | 10       | 250    | 30     | 80     | 29     | 11     | 520 |        |        |
| <b>61063</b> | 12       | 300    | 36     | 95     | 33     | 12     | 900 | 5      |        |



**TITACROM® COMFORT**

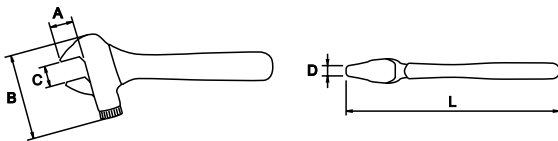
1000V



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |      |   |   |
|-------|----------|--------|--------|--------|--------|--------|------|---|---|
| 76578 | 6        | 150    | 20     | 55     | 19     | 8,5    | 200  |   |   |
| 76580 | 10       | 250    | 30     | 80     | 29     | 11     | 600  | 4 | ● |
| 76581 | 12       | 300    | 36     | 95     | 33     | 12     | 1000 |   |   |



TITACROM® 1000V | IEC 60900

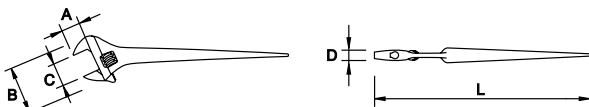


| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |      |   |   |
|-------|----------|--------|--------|--------|--------|--------|------|---|---|
| 79470 | 8        | 200    | 25     | 95     | 29     | 11     | 370  |   |   |
| 79471 | 10       | 250    | 32     | 105    | 33     | 11     | 620  | 1 | ● |
| 79472 | 12       | 300    | 40     | 120    | 38     | 14     | 1000 |   |   |



1000V | IEC 60900

**LLAVE AJUSTABLE PARA ESTRUCTURA / ADJUSTABLE STRUCTURAL WRENCH / CLÉ À MOLETTE POUR STRUCTURE MÉTALLIQUE / VERSTELBARE ROLLGABELSCHLÜSSEL MIT DORN / CHIAVE REOLABILE PER PONTEGGI / CHAVE AJUSTÁVEL PARA ESTRUTURA / КЛЮЧ РАЗВОДНОЙ СТРОИТЕЛЬНЫЙ**



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |      |   |   |
|-------|----------|--------|--------|--------|--------|--------|------|---|---|
| 61137 | 16       | 400    | 35     | 85     | 42     | 17     | 1100 | 1 | ● |





■ EXPOSITORES / DISPLAYS / PRESENTOIRS / DISPLAY / ESPOSITORI / DISPLAY STAND / СТЕНДЫ

■ 36 PCS.



| COD.         | PCS. |
|--------------|------|
| <b>69411</b> | 36   |

| PCS. | COD. PCS. |            |
|------|-----------|------------|
| 6    | 61110     | 6"-150 mm  |
| 9    | 61111     | 8"-200 mm  |
|      | 61112     | 10"-250 mm |
| 6    | 61907     | 8"-200 mm  |
|      | 61908     | 10"-250 mm |

| COD.         | PCS. |
|--------------|------|
| <b>69412</b> | 36   |

| PCS. | COD. PCS. |            |
|------|-----------|------------|
| 6    | 61117     | 6"-150 mm  |
| 9    | 61118     | 8"-200 mm  |
|      | 61119     | 10"-250 mm |
| 6    | 61910     | 8"-200 mm  |
|      | 61911     | 10"-250 mm |

| COD.         | PCS. |
|--------------|------|
| <b>69415</b> | 36   |

| PCS. | COD. PCS. |            |
|------|-----------|------------|
| 6    | 61110     | 6"-150 mm  |
|      | 61111     | 8"-200 mm  |
|      | 61112     | 10"-250 mm |
|      | 61057     | 6"-150 mm  |
|      | 58127     | 8"-200 mm  |
|      | 58128     | 10"-250 mm |

| COD.         | PCS. |
|--------------|------|
| <b>55580</b> | 36   |

| PCS. | COD. PCS. |            |
|------|-----------|------------|
| 6    | 61942     | 10"-250 mm |
|      | 61943     | 12"-300 mm |
|      | 61237     | 8"-200 mm  |
|      | 61944     | 10"-250 mm |
|      | 61945     | 12"-300 mm |
|      | 61238     | 8"-200 mm  |

| COD.         | PCS. |
|--------------|------|
| <b>55581</b> | 36   |

| PCS. | COD. PCS. |            |
|------|-----------|------------|
| 6    | 61946     | 10"-250 mm |
|      | 61947     | 12"-300 mm |
|      | 61239     | 8"-200 mm  |
|      | 61948     | 10"-250 mm |
|      | 61949     | 12"-300 mm |
|      | 61240     | 8"-200 mm  |

■ 60 PCS.



| COD.         | PCS. |
|--------------|------|
| <b>69435</b> | 60   |

| PCS. | COD. PCS. |            |
|------|-----------|------------|
| 6    | 61110     | 6"-150 mm  |
|      | 61111     | 8"-200 mm  |
|      | 61112     | 10"-250 mm |
|      | 61113     | 12"-300 mm |
|      | 61936     | 10"-250 mm |
|      | 61937     | 12"-300 mm |
|      | 61057     | 6"-150 mm  |
|      | 58127     | 8"-200 mm  |
|      | 58128     | 10"-250 mm |
|      | 58129     | 12"-300 mm |

| COD.         | PCS. |
|--------------|------|
| <b>69437</b> | 60   |

| PCS. | COD. PCS. |            |
|------|-----------|------------|
| 6    | 61110     | 6"-150 mm  |
|      | 61111     | 8"-200 mm  |
|      | 61112     | 10"-250 mm |
|      | 61113     | 12"-300 mm |
| 12   | 61907     | 8"-200 mm  |
|      | 61908     | 10"-250 mm |
|      | 61909     | 12"-300 mm |
|      | 61936     | 10"-250 mm |
|      | 61937     | 12"-300 mm |

| COD.         | PCS. |
|--------------|------|
| <b>69439</b> | 60   |

| PCS. | COD. PCS. |            |
|------|-----------|------------|
| 6    | 61117     | 6"-150 mm  |
|      | 61118     | 8"-200 mm  |
| 12   | 61119     | 10"-250 mm |
|      | 61120     | 12"-300 mm |
|      | 61910     | 8"-200 mm  |
| 6    | 61911     | 10"-250 mm |
|      | 61912     | 12"-300 mm |
|      | 61940     | 10"-250 mm |
|      | 61941     | 12"-300 mm |

■ 36 PCS.



| COD.         | PCS. |
|--------------|------|
| <b>55582</b> | 36   |

| PCS. | COD. PCS. |            |
|------|-----------|------------|
| 6    | 61942     | 10"-250 mm |
|      | 61943     | 12"-300 mm |
|      | 61237     | 8"-200 mm  |
|      | 61944     | 10"-250 mm |
|      | 61945     | 12"-300 mm |
|      | 61238     | 8"-200 mm  |

| COD.         | PCS. |
|--------------|------|
| <b>55583</b> | 36   |

| PCS. | COD. PCS. |            |
|------|-----------|------------|
| 6    | 61946     | 10"-250 mm |
|      | 61947     | 12"-300 mm |
|      | 61239     | 8"-200 mm  |
|      | 61948     | 10"-250 mm |
|      | 61949     | 12"-300 mm |
|      | 61240     | 8"-200 mm  |

■ **REPUESTOS / SPARE PARTS / RECHANGES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

■ **LLAVES AJUSTABLES - COMBI / ADJUSTABLE WRENCHES - COMBI / CLÉS À MOLETTE - COMBI**

| COD.  | Descripción / Description / Description | COD.  | Descripción / Description / Description | Válido para / Valid for / Valable pour                               |
|-------|-----------------------------------------|-------|-----------------------------------------|----------------------------------------------------------------------|
| 81554 | Eje / Axle / Axe                        | 81539 | Tuerca / Nut / Ecrou                    | 61109, 61136                                                         |
| 81547 |                                         | 81540 |                                         | 61110, 61906, 76550, 61117, 61898, 76554                             |
| 81548 |                                         | 81541 |                                         | 61111, 61907, 76551, 61118, 61910, 76555                             |
| 81549 |                                         | 81542 |                                         | 61112, 61908, 76552, 61119, 61911, 76556, 61942, 61946, 61948        |
| 81550 |                                         | 81543 |                                         | 61113, 61909, 76553, 61120, 61912, 76557, 61943, 61945, 61947, 61949 |
| 81551 |                                         | 81544 |                                         | 61114, 61370, 61121, 61373                                           |
| 81552 |                                         | 81545 |                                         | 61115, 61371, 61122, 61374                                           |
| 81553 |                                         | 81546 |                                         | 61116, 61372, 61123, 61375                                           |
| 85764 |                                         | 85765 |                                         | 62980                                                                |

■ **ALAVESA - ALAVESA COMBI / BASQUE - BASQUE COMBI / BASQUE - BASQUE COMBI**

| COD.  | Descripción / Description / Description | COD.  | Descripción / Description / Description | Válido para / Valid for / Valable pour |
|-------|-----------------------------------------|-------|-----------------------------------------|----------------------------------------|
| 81034 | Eje / Axle / Axe                        | 81542 | Tuerca / Nut / Ecrou                    | 61934, 61936, 61938, 61940             |
| 81035 |                                         | 81543 |                                         | 61935, 61937, 61939, 61941             |

■ **PLUMBINGWRENCH – PLUMBINGWRENCH COMBI**

| COD.  | Descripción / Description / Description | COD.  | Descripción / Description / Description | Válido para / Valid for / Valable pour                 |
|-------|-----------------------------------------|-------|-----------------------------------------|--------------------------------------------------------|
| 81966 | Eje / Axle / Axe                        | 81965 | Tuerca / Nut / Ecrou                    | 61230, 61231, 61232                                    |
| 81968 |                                         | 81967 |                                         | 61213, 61214, 61215, 61216, 61237, 61238, 61239, 61240 |

■ **PLUMBINGWRENCH ALAVESA – PLUMBINGWRENCH ALAVESA COMBI / BASQUE PLUMBINGWRENCH - BASQUE COMBI PLUMBINGWRENCH / BASQUE PLUMBINGWRENCH - BASQUE COMBI PLUMBINGWRENCH**

| COD.  | Descripción / Description / Description | COD.  | Descripción / Description / Description | Válido para / Valid for / Valable pour |
|-------|-----------------------------------------|-------|-----------------------------------------|----------------------------------------|
| 81033 | Eje / Axle / Axe                        | 81967 | Tuerca / Nut / Ecrou                    | 61221, 61222, 61223, 61224             |

■ **SCANDINAVIAN - COMBI SCANDINAVIAN**

| COD.  | Descripción / Description / Description | COD.  | Descripción / Description / Description | Válido para / Valid for / Valable pour |
|-------|-----------------------------------------|-------|-----------------------------------------|----------------------------------------|
| 81547 | Eje / Axle / Axe                        | 85767 | Tuerca / Nut / Ecrou                    | 60550, 60548                           |
| 81549 |                                         | 85769 |                                         | 60552, 60558                           |
| 81550 |                                         | 85770 |                                         | 60553, 60559                           |
| 81553 |                                         | 85773 |                                         | 60562                                  |



# PROYECTOS PRINCIPALES

## *MAIN PROJECTS*

# PRINCIPAUX PROJETS



**ARO DRILLING**

**PETRÓLEO Y GAS / OIL&GAS / PÉTROLE ET GAZ**

EMIRATOS ÁRABES UNIDOS / UNITED ARAB EMIRATES /  
ÉMIRATS ARABES UNIS



8

LLAVES  
WRENCHES  
CLÉS  
SCHLÜSSEL  
CHIAVI  
CHAVES  
КЛЮЧИ

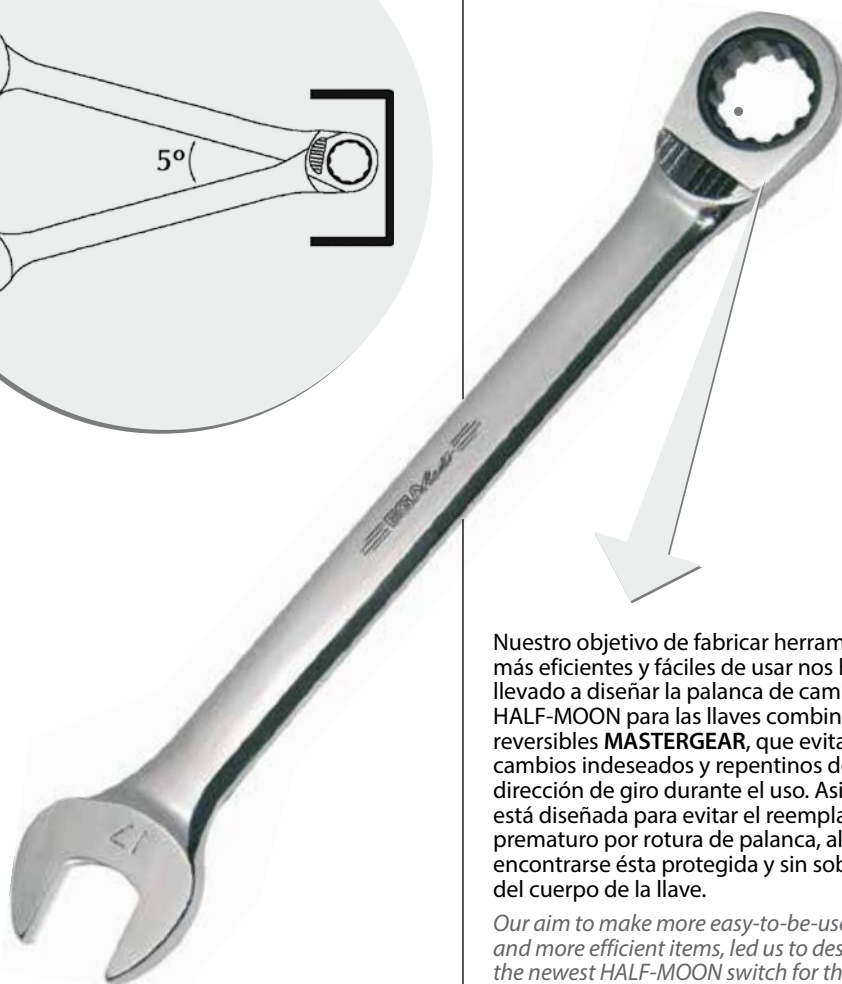
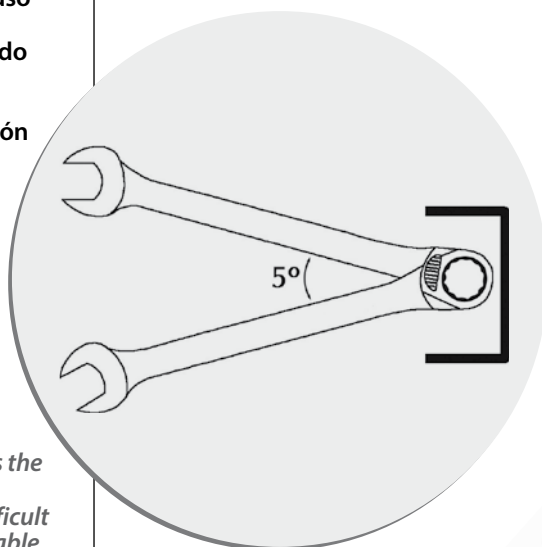


## LLAVE COMBINADA REVERSIBLE MASTERGEAR REVERSIBLE MASTERGEAR COMBINATION WRENCH CLÉS MIXTES REVERSIBLES MASTERGEAR

El diseño exclusivo de las llaves **MASTERGEAR** provee al profesional más exigente de una llave multiuso para el apriete en los lugares de más difícil acceso y con un cómodo sistema de carraca. Fabricadas en cromo-vanadio, soportan ampliamente los valores de torsión de los estándares de calidad más exigentes. Su carraca de 72 dientes junto con el diseño especial de su cabeza posibilita aprietes en las posiciones más complicadas, necesitando únicamente 5° para ello. Reversibles, Stubby, E-Torx... todo lo necesario para el profesional.

*The exclusive design of the MASTERGEAR wrenches, provides the demanding professional with an all-in-one wrench for the most difficult access tightening, with a comfortable ratchet system. Made in chrome vanadium, they easily stand the most restrictive quality standards for torque. Their 72 teeth gear together with the ratchet head design enables tightening in the narrowest places, with only 5° required for such purpose. Reversible, Stubby, E-Torx... all that the demanding professional may need.*

La concepción exclusiva de la clé **MASTERGEAR** fournit au professionnel le plus exigeant une clé multi-usages pour le serrage dans des lieux exigus, avec un système de cliquet. Fabriquées en chrome vanadium, elles supportent amplement les valeurs de torsion que requièrent les standards de qualité les plus exigeants. Son cliquet de 72 dents, combiné à un dessin spécifique de la tête, permet des serrages dans les positions les plus complexes, requerrant uniquement 5° pour agir. Réversibles, Stubby, E-Torx... tout l'indispensable pour le professionnel.



Nuestro objetivo de fabricar herramientas más eficientes y fáciles de usar nos ha llevado a diseñar la palanca de cambio HALF-MOON para las llaves combinadas reversibles **MASTERGEAR**, que evita cambios indeseados y repentinos de dirección de giro durante el uso. Asimismo, está diseñada para evitar el reemplazo prematuro por rotura de palanca, al encontrarse ésta protegida y sin sobresalir del cuerpo de la llave.

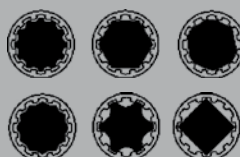
*Our aim to make more easy-to-be-used and more efficient items, led us to design the newest HALF-MOON switch for the MASTERGEAR Reversible Combination Wrenches, which avoids unwanted or unconscious switch reversing as well as premature damage of the switch. Besides, this switch is designed to avoid the early need to replace it because of breakage, as this switch is protected by the body of the wrench.*

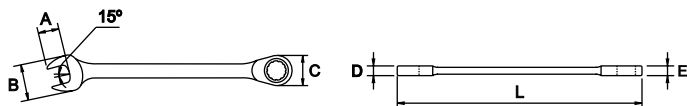
Notre objectif de fabriquer des outils plus performants et plus faciles d'usage, nous a amené à dessiner le bouton de changement de sens de la clé à cliquet réversible **MASTERGEAR**, en forme de demi-lune, ce qui a pour effet d'éviter des changements de sens indésirables et soudain durant l'utilisation. De même, sa conception permet d'éviter des remplacements prématurés de la clé pour cause de rupture du levier, le bouton étant protégé car ne ressortant pas trop du corps de l'outil.

Su innovador diseño de estrella permite apretar múltiples y diferentes cabezas de tornillo, tales como Spline, 6 lados, 12 lados, E-torx y Cuadrados, incluso en cabezas redondeadas hasta en un 50% por el desgaste.

*Its innovative box drive allows to tighten multiple nut heads such as Spline, 6-point, 12 point, Square and E-torx, as well as with 50% rounded off nuts.*

Son dessin innovateur en étoile, permet de serrer de multiples et différentes têtes de vissage, telles que Spline, 6 pans, 12 pans, E-Torx et carrées, y compris des têtes arrondies à 50% par usure.

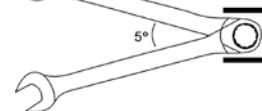
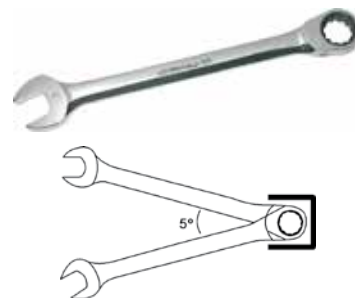
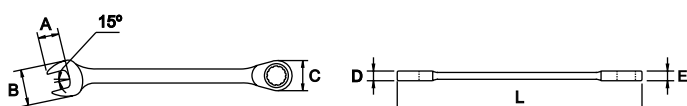


**MASTERGEAR**
**LLAVE COMBINADA DE CARRACA MASTERGEAR / MASTERGEAR COMBINATION RATCHET WRENCH / CLÉ MIXTE À CLIQUET MASTERGEAR / RATSCHEN-RINGGABELSCHLÜSSEL / CHIAVE COMBINATA A CRICCO MASTERGEAR / CHAVE DE BOCA E LUNETA COM ROQUETE MASTERGEAR / КЛЮЧ ТРЕЩЕТОЧНЫЙ КОМБИНИРОВАННЫЙ MASTERGEAR**
**MM**


| COD.  | AP mm | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   |    |     |
|-------|-------|--------|--------|--------|--------|--------|--------|-----|----|-----|
| 62622 | 6     | 125    | 7      | 13,5   | 14,5   | 4,2    | 6,5    | 45  |    |     |
| 62650 | 7     | 130    | 8      | 14,5   | 17,5   | 4,3    | 6,8    | 50  |    |     |
| 62651 | 8     | 145    | 9,5    | 17     | 18     | 4,7    | 7,4    | 55  |    |     |
| 62652 | 9     | 150    | 10     | 18     | 19     | 5,3    |        | 60  |    |     |
| 62653 | 10    | 160    | 11     | 22     | 21     | 5,7    |        | 80  |    |     |
| 62654 | 11    | 165    | 12     | 23     | 22     | 6,1    |        | 90  |    |     |
| 62655 | 12    | 175    | 13     | 25     | 23     | 6,4    | 8,4    | 100 | 10 |     |
| 62656 | 13    | 180    | 15     | 26     | 25     | 6,6    |        | 120 |    |     |
| 62657 | 14    | 190    | 16     | 29     | 26     | 7,3    |        | 130 |    |     |
| 62658 | 15    | 200    | 17     | 31     | 28     | 7,5    |        | 150 |    |     |
| 62659 | 16    | 210    | 18     | 33     | 29     | 7,7    | 10,0   | 180 |    | • A |
| 62660 | 17    | 230    | 20     | 36     | 30     | 7,9    |        | 200 |    |     |
| 62661 | 18    | 240    |        | 38     | 32     | 8,4    | 11,5   | 240 |    |     |
| 62662 | 19    | 250    | 21     | 39     | 34     | 8,7    |        | 310 |    |     |
| 62663 | 21    | 270    | 24     | 43     | 38     | 9,5    | 12,5   | 340 |    |     |
| 62664 | 22    | 280    | 25     | 46     | 41     | 10,0   | 13,5   | 450 |    |     |
| 62665 | 24    | 300    | 26     | 48     | 45     | 11,0   |        | 600 | 5  |     |
| 62677 | 27    | 340    | 31     | 55     | 48     | 13,0   | 14,5   | 800 |    |     |
| 62678 | 30    | 370    | 35     | 62     | 55     | 14,0   | 17,0   | 950 |    |     |
| 62679 | 32    | 400    | 37     | 64     | 60     | 15,0   |        |     |    |     |

**DIN 1711 | Modelo registrado / Registered model / Modèle enregistré**
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

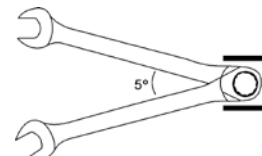
Cr-V


**INCH**


| COD.  | AP inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   |    |     |
|-------|---------|--------|--------|--------|--------|--------|--------|-----|----|-----|
| 62666 | 5/16    | 145    | 9,0    | 17     | 18     | 4,7    | 7,4    | 50  |    |     |
| 62667 | 3/8     | 160    | 12     | 22     | 21     | 5,7    |        | 60  |    |     |
| 62668 | 7/16    | 165    |        | 23     | 22     | 6,1    | 8,4    | 80  |    |     |
| 62669 | 1/2     | 180    | 14     | 26     | 25     | 6,6    |        | 100 |    |     |
| 62670 | 9/16    | 190    | 16     | 29     | 26     | 7,3    |        | 120 | 10 |     |
| 62671 | 5/8     | 210    | 18     | 33     | 29     | 7,7    | 10,0   | 150 |    | • A |
| 62672 | 11/16   | 230    | 20     | 36     | 30     | 7,9    |        | 180 |    |     |
| 62673 | 3/4     | 250    | 22     | 39     | 34     | 8,7    | 11,5   | 240 |    |     |
| 62674 | 13/16   | 270    | 23     | 43     | 38     | 9,5    | 12,5   | 310 |    |     |
| 62675 | 7/8     | 280    | 26     | 46     | 41     | 10,0   | 13,5   | 340 |    |     |
| 62676 | 15/16   | 300    | 27     | 48     | 45     | 11,0   |        | 450 | 5  |     |
| 62709 | 1       | 320    | 26     | 51     | 45,7   | 9,4    | 14,5   | 480 |    |     |





**DIN 1711 | Modelo registrado / Registered model / Modèle enregistré**
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V


**A** Cromado pulido espejo / Mirror polished chrome plating / Polie chromée / Verchromt geschliffen / Cromate lucide / Cromado pulido / Полированный хром



■ SET

■ MM

| COD.                                           |   | PCS.                      |    |
|------------------------------------------------|---|---------------------------|-------------------------------------------------------------------------------------|
| <b>69864</b>                                   | A | 10                        | 1000                                                                                |
| <b>Composición / Composition / Composition</b> |   |                           |                                                                                     |
| 62651, 62653, 62655, 62656, 62660, 62662       |   | 8-10-12-13-17-19 mm       |  |
| 62772, 62773, 62774                            |   | 1/4-10, 3/8-17, 1/2-19 mm |  |
| 62775                                          |   | 1/4"-1/4"                 |  |







■ MM

| COD.                                           |   | PCS.                |    |
|------------------------------------------------|---|---------------------|-------------------------------------------------------------------------------------|
| <b>69865</b>                                   | A | 6                   | 800                                                                                 |
| <b>Composición / Composition / Composition</b> |   |                     |                                                                                     |
| 62651, 62653, 62655, 62656, 62660, 62662       |   | 8-10-12-13-17-19 mm |  |





■ MM

| COD.                                                                               |   | PCS.                                 |    |
|------------------------------------------------------------------------------------|---|--------------------------------------|---------------------------------------------------------------------------------------|
| <b>69868</b>                                                                       | A | 16                                   | 2000                                                                                  |
| <b>Composición / Composition / Composition</b>                                     |   |                                      |                                                                                       |
| 62651, 62652, 62653, 62654, 62655, 62656, 62657, 62658, 62659, 62660, 62661, 62662 |   | 8-9-10-11-12-13-14-15-16-17-18-19 mm |  |
| 62772, 62773, 62774                                                                |   | 1/4-10, 3/8-17, 1/2-19 mm            |  |
| 62775                                                                              |   | 1/4"-1/4"                            |  |







■ MM

| COD.                                                                               |   | PCS.                                 |    |
|------------------------------------------------------------------------------------|---|--------------------------------------|---------------------------------------------------------------------------------------|
| <b>69869</b>                                                                       | A | 12                                   | 1800                                                                                  |
| <b>Composición / Composition / Composition</b>                                     |   |                                      |                                                                                       |
| 62651, 62652, 62653, 62654, 62655, 62656, 62657, 62658, 62659, 62660, 62661, 62662 |   | 8-9-10-11-12-13-14-15-16-17-18-19 mm |  |




■ INCH

| COD.                                           |   | PCS.                                   |    |
|------------------------------------------------|---|----------------------------------------|---------------------------------------------------------------------------------------|
| <b>51453</b>                                   | A | 10                                     | 1000                                                                                  |
| <b>Composición / Composition / Composition</b> |   |                                        |                                                                                       |
| 62666, 62667, 62668, 62669, 62672, 62673       |   | 5/16"- 3/8"- 7/16"- 1/2"- 11/16"- 3/4" |  |
| 62772, 62773, 62774                            |   | 1/4-10, 3/8-17, 1/2-19 mm              |  |
| 62775                                          |   | 1/4"-1/4"                              |  |





## INCH

| COD.                                           |   | PCS.                              |  |
|------------------------------------------------|---|-----------------------------------|-----------------------------------------------------------------------------------|
| <b>51454</b>                                   | A | 6                                 | 800                                                                               |
| <b>Composición / Composition / Composition</b> |   |                                   |                                                                                   |
| 62666, 62667, 62668, 62669, 62672, 62673       |   | 5/16"-3/8"-7/16"-1/2"-11/16"-3/4" |                                                                                   |



## SET DEMO-BLOCK

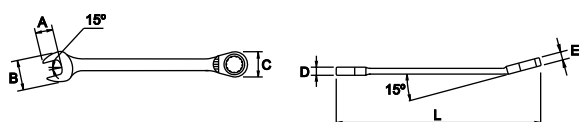
| COD.         |  mm |       |  |
|--------------|--------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------|
| <b>64502</b> | 13                                                                                   | ***** | 300                                                                                |







## MASTERGEAR REV.

**LLAVE COMBINADA DE CARRACA REVERSIBLE MASTERGEAR / REVERSIBLE MASTERGEAR COMBINATION RATCHET WRENCH / CLÉ MIXTE A CLIQUET RÉVERSIBLE MASTERGEAR / UMKEHRBARE RATSCHEN-GABELSCHLÜSSEL / CHIAVE COMBINATA A CRICCO REVERSIBILE MASTERGEAR / CHAVE DE BOCA E LUNETAS DE ROQUETE REVERSÍVEL MASTERGEAR / КЛЮЧ РЕВЕРСИВНЫЙ ТРЕЩЕТОЧНЫЙ КОМБИНИРОВАННЫЙ MASTERGEAR**

## MM



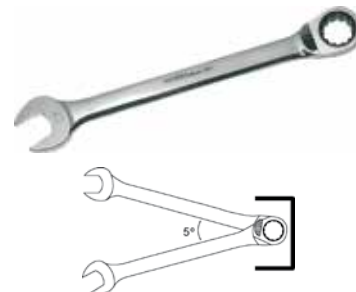
| COD.         |  mm | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) |  |  |  |
|--------------|----------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>62680</b> | 8                                                                                      | 145    | 9,5    | 17     | 18     | 4,7    | 7,4    | 50                                                                                  |                                                                                     |                                                                                      |
| <b>62681</b> | 9                                                                                      | 150    | 10     | 19     | 19     | 5,3    |        | 55                                                                                  |                                                                                     |                                                                                      |
| <b>62682</b> | 10                                                                                     | 160    | 11     | 22     | 21     | 5,7    |        | 60                                                                                  |                                                                                     |                                                                                      |
| <b>62683</b> | 11                                                                                     | 165    | 12     | 23     | 22     | 6,1    |        | 80                                                                                  |                                                                                     |                                                                                      |
| <b>62684</b> | 12                                                                                     | 175    | 13     | 25     | 23     | 6,4    |        | 90                                                                                  |                                                                                     |                                                                                      |
| <b>62685</b> | 13                                                                                     | 180    | 15     | 26     | 25     | 6,6    | 8,4    | 100                                                                                 |                                                                                     |                                                                                      |
| <b>62686</b> | 14                                                                                     | 190    | 16     | 29     | 26     | 7,3    |        | 120                                                                                 | 10                                                                                  |                                                                                      |
| <b>62687</b> | 15                                                                                     | 200    | 17     | 31     | 28     | 7,5    |        | 130                                                                                 |                                                                                     | ● A                                                                                  |
| <b>62688</b> | 16                                                                                     | 210    | 18     | 33     | 29     | 7,7    |        | 150                                                                                 |                                                                                     |                                                                                      |
| <b>62689</b> | 17                                                                                     | 230    | 20     | 36     | 30     | 7,9    | 10,0   | 180                                                                                 |                                                                                     |                                                                                      |
| <b>62690</b> | 18                                                                                     | 240    |        | 38     | 32     | 8,4    |        | 200                                                                                 |                                                                                     |                                                                                      |
| <b>62691</b> | 19                                                                                     | 250    | 21     | 39     | 34     | 8,7    | 11,5   | 240                                                                                 |                                                                                     |                                                                                      |
| <b>62692</b> | 21                                                                                     | 270    | 24     | 43     | 38     | 9,5    | 12,5   | 310                                                                                 |                                                                                     |                                                                                      |
| <b>62693</b> | 22                                                                                     | 280    | 25     | 46     | 41     | 10,0   |        | 340                                                                                 | 5                                                                                   |                                                                                      |
| <b>62694</b> | 24                                                                                     | 300    | 26     | 48     | 45     | 11,0   | 13,5   | 450                                                                                 |                                                                                     |                                                                                      |

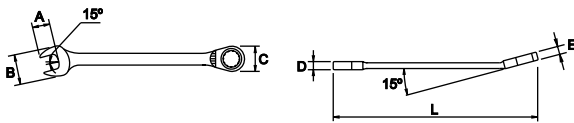
DIN 1711 | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

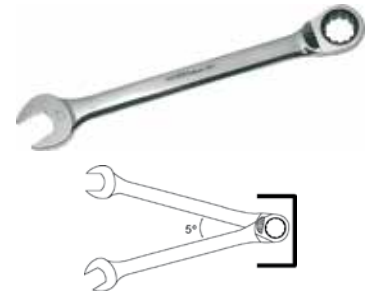
Cr-V

Reversible / Reversible / Réversible



**INCH**


| COD.  | AP inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   | 10 | 5   |
|-------|---------|--------|--------|--------|--------|--------|--------|-----|----|-----|
| 62695 | 5/16    | 145    | 9,0    | 17     | 18     | 4,7    | 7,4    | 50  |    |     |
| 62696 | 3/8     | 160    |        | 22     | 21     | 5,7    |        | 60  |    |     |
| 62697 | 7/16    | 165    | 12     | 23     | 22     | 6,1    |        | 80  |    |     |
| 62698 | 1/2     | 180    | 14     | 26     | 25     | 6,6    |        | 100 |    |     |
| 62699 | 9/16    | 190    | 16     | 29     | 26     | 7,3    |        | 120 | 10 |     |
| 62700 | 5/8     | 210    | 18     | 33     | 29     | 7,7    |        | 150 |    |     |
| 62701 | 11/16   | 230    | 20     | 36     | 30     | 7,9    | 10,0   | 180 |    | • A |
| 62702 | 3/4     | 250    | 22     | 39     | 34     | 8,7    | 11,5   | 240 |    |     |
| 62703 | 13/16   | 270    | 23     | 43     | 38     | 9,5    | 12,5   | 310 |    |     |
| 62704 | 7/8     | 280    | 26     | 46     | 41     | 10,0   |        | 340 | 5  |     |
| 62705 | 15/16   | 300    | 27     | 48     | 45     | 11,0   | 13,5   | 450 |    |     |



DIN 1711 | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

Reversible / Reversible / Réversible

**SET**
**MM**

| COD.                                           | PCS.                      | g  |      |
|------------------------------------------------|---------------------------|----|------|
| 69866                                          | A                         | 10 | 1000 |
| <b>Composición / Composition / Composition</b> |                           |    |      |
| 62680, 62682, 62684, 62685, 62689, 62691       | 8-10-12-13-17-19 mm       |    |      |
| 62772, 62773, 62774                            | 1/4-10, 3/8-17, 1/2-19 mm |    |      |
| 62775                                          | 1/4"-1/4"                 |    |      |


**MM**

| COD.                                           | PCS.                | g |     |
|------------------------------------------------|---------------------|---|-----|
| 69867                                          | A                   | 6 | 800 |
| <b>Composición / Composition / Composition</b> |                     |   |     |
| 62680, 62682, 62684, 62685, 62689, 62691       | 8-10-12-13-17-19 mm |   |     |




**MM**

| COD.                                                                               | PCS.                                 | g  |      |
|------------------------------------------------------------------------------------|--------------------------------------|----|------|
| 69870                                                                              | A                                    | 16 | 2000 |
| <b>Composición / Composition / Composition</b>                                     |                                      |    |      |
| 62680, 62681, 62682, 62683, 62684, 62685, 62686, 62687, 62688, 62689, 62690, 62691 | 8-9-10-11-12-13-14-15-16-17-18-19 mm |    |      |
| 62772, 62773, 62774                                                                | 1/4-10, 3/8-17, 1/2-19 mm            |    |      |
| 62775                                                                              | 1/4"-1/4"                            |    |      |







A Cromado pulido espejo / Mirror polished chrome plating / Polie chromée / Verchromt geschliffen / Cromate lucide / Cromado pulido / Полированный хром

## MM

| COD.                                                                               |   | PCS.                                 |    |
|------------------------------------------------------------------------------------|---|--------------------------------------|-------------------------------------------------------------------------------------|
| <b>69871</b>                                                                       | A | 12                                   | 1800                                                                                |
| <b>Composición / Composition / Composition</b>                                     |   |                                      |                                                                                     |
| 62680, 62681, 62682, 62683, 62684, 62685, 62686, 62687, 62688, 62689, 62690, 62691 |   | 8-9-10-11-12-13-14-15-16-17-18-19 mm |  |





## INCH

| COD.                                           |   | PCS.                              |    |
|------------------------------------------------|---|-----------------------------------|-------------------------------------------------------------------------------------|
| <b>51455</b>                                   | A | 10                                | 1000                                                                                |
| <b>Composición / Composition / Composition</b> |   |                                   |                                                                                     |
| 62695, 62696, 62697, 62698, 62701, 62702       |   | 5/16"-3/8"-7/16"-1/2"-11/16"-3/4" |  |
| 62772, 62773, 62774                            |   | 1/4"-10, 3/8"-17, 1/2"-19 mm      |  |
| 62775                                          |   | 1/4"-1/4"                         |  |

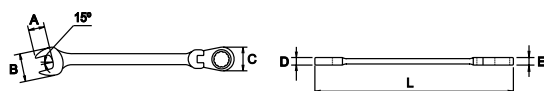






## INCH

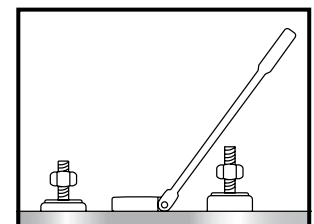
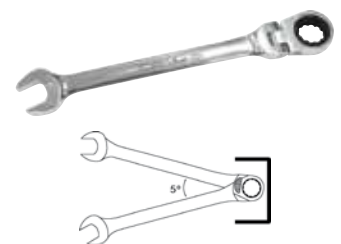
| COD.                                           |   | PCS.                              |     |
|------------------------------------------------|---|-----------------------------------|---------------------------------------------------------------------------------------|
| <b>51456</b>                                   | A | 6                                 | 800                                                                                   |
| <b>Composición / Composition / Composition</b> |   |                                   |                                                                                       |
| 62695, 62696, 62697, 62698, 62701, 62702       |   | 5/16"-3/8"-7/16"-1/2"-11/16"-3/4" |  |


**MASTERGEAR ARTICULADA / MASTERGEAR JOINT / MASTERGEAR ARTICULÉE / RATSCHEN-RINGGABELSCHLÜSSEL MIT VERSTELLBAREM KOPF / MASTERGEAR SNOODATA / MASTERGEAR ARTICULADA / MASTERGEAR ШАРНИР**

## MM



| COD.         |  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) |  |  |  |
|--------------|-------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>61379</b> | 6                                                                                   | 125    | 6,8    | 13,5   | 14,4   | 4,2    | 6,5    | 50                                                                                  |                                                                                     |                                                                                      |
| <b>61404</b> | 7                                                                                   | 132    | 7,9    | 14,6   | 17,5   | 4,3    | 6,8    | 55                                                                                  |                                                                                     |                                                                                      |
| <b>61530</b> | 8                                                                                   | 145    | 9,5    | 17     | 18     | 4,7    | 7,4    | 60                                                                                  |                                                                                     |                                                                                      |
| <b>61531</b> | 9                                                                                   | 150    | 10     | 19     | 19     | 5,3    |        | 65                                                                                  |                                                                                     |                                                                                      |
| <b>61532</b> | 10                                                                                  | 155    | 11     | 22     | 21     | 5,7    |        | 70                                                                                  |                                                                                     |                                                                                      |
| <b>61533</b> | 11                                                                                  | 165    | 12     | 23     | 22     | 6,1    |        | 90                                                                                  |                                                                                     |                                                                                      |
| <b>61534</b> | 12                                                                                  | 170    | 13     | 25     | 23     | 6,4    |        | 95                                                                                  |                                                                                     |                                                                                      |
| <b>61535</b> | 13                                                                                  | 180    | 15     | 26     | 25     | 6,6    | 8,4    | 110                                                                                 | 10                                                                                  |                                                                                      |
| <b>61536</b> | 14                                                                                  | 190    | 16     | 29     | 26     | 7,3    |        | 120                                                                                 |                                                                                     |                                                                                      |
| <b>61537</b> | 15                                                                                  | 200    | 17     | 31     | 28     | 7,5    |        | 140                                                                                 |                                                                                     |                                                                                      |
| <b>61538</b> | 16                                                                                  | 210    | 18     | 33     | 29     | 7,7    | 10,0   | 160                                                                                 |                                                                                     |                                                                                      |
| <b>61539</b> | 17                                                                                  | 230    | 20     | 36     | 30     | 7,9    |        | 190                                                                                 |                                                                                     |                                                                                      |
| <b>61540</b> | 18                                                                                  | 240    |        | 38     | 32     | 8,4    |        | 210                                                                                 |                                                                                     |                                                                                      |
| <b>61541</b> | 19                                                                                  | 250    | 21     | 39     | 34     | 8,7    | 11,5   | 240                                                                                 |                                                                                     |                                                                                      |
| <b>61542</b> | 21                                                                                  | 270    | 24     | 43     | 38     | 9,5    | 12,5   | 250                                                                                 |                                                                                     |                                                                                      |
| <b>61543</b> | 22                                                                                  | 280    | 25     | 46     | 41     | 10,0   | 13,5   | 350                                                                                 |                                                                                     |                                                                                      |
| <b>61544</b> | 24                                                                                  | 300    | 26     | 48     | 45     | 11,0   |        | 460                                                                                 | 5                                                                                   |                                                                                      |
| <b>61569</b> | 27                                                                                  | 340    | 28,5   | 56     | 50     | 10     | 15,2   | 760                                                                                 |                                                                                     |                                                                                      |



A Cromado pulido espejo / Mirror polished chrome plating / Polie chromée / Verchromt geschliffen / Cromate lucide / Cromado pulido / Полированный хром

Si no encuentra el artículo que necesita, consúltenos en [consulta@egamaster.com](mailto:consulta@egamaster.com) o en [www.egamaster.com](http://www.egamaster.com)  
 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
 Si vous ne trouvez pas l'article que vous desirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)

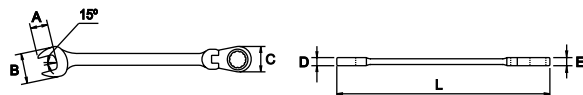
| COD.  | AP mm | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g    |   |   |   |
|-------|-------|--------|--------|--------|--------|--------|--------|------|---|---|---|
| 61582 | 30    | 365    | 32     | 63     | 55     | 11,5   | 16,8   | 900  | 5 | ● | A |
| 61594 | 32    | 390    | 33,5   | 69     | 60     | 12,4   | 17,3   | 1000 |   |   |   |

DIN 1711 | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**INCH**



| COD.  | AP inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   |    |   |   |
|-------|---------|--------|--------|--------|--------|--------|--------|-----|----|---|---|
| 61545 | 5/16    | 145    | 9,0    | 17     | 18     | 4,7    | 7,4    | 60  |    |   |   |
| 61546 | 3/8     | 155    | 12     | 22     | 21     | 5,7    |        | 70  |    |   |   |
| 61547 | 7/16    | 165    | 23     | 22     | 22     | 6,1    |        | 90  |    |   |   |
| 61548 | 1/2     | 180    | 14     | 26     | 25     | 6,6    |        | 110 | 10 |   |   |
| 61549 | 9/16    | 190    | 16     | 29     | 26     | 7,3    |        | 130 |    |   |   |
| 61550 | 5/8     | 210    | 18     | 33     | 29     | 7,7    | 10,0   | 170 |    |   |   |
| 61551 | 11/16   | 230    | 20     | 36     | 30     | 7,9    |        | 190 |    | ● | A |
| 61552 | 3/4     | 250    | 22     | 39     | 34     | 8,7    | 11,5   | 250 |    |   |   |
| 61553 | 13/16   | 270    | 23     | 43     | 38     | 9,5    | 12,5   | 320 |    |   |   |
| 61554 | 7/8     | 280    | 26     | 46     | 41     | 10,0   |        | 350 | 5  |   |   |
| 61555 | 15/16   | 300    | 27     | 48     | 45     | 11,0   | 13,5   | 460 |    |   |   |
| 61558 | 1       | 320    | 26     | 51     | 46     | 9,4    | 14,5   | 550 |    |   |   |

DIN 1711 | Modelo registrado / Registered model / Modèle enregistré

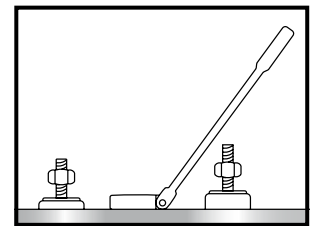
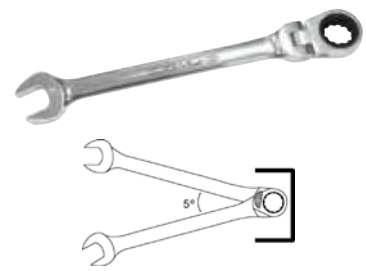
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**SET**

**MM**

| COD.  | PCS. |       | COD. PCS.                                                            | (mm)                        |
|-------|------|-------|----------------------------------------------------------------------|-----------------------------|
| 69105 | 6    | 90080 | 61530, 61532, 61534, 61535, 61539, 61541                             | 8-10-12-13-17-19            |
| 69106 | 8    | 90081 | 61530, 61532, 61534, 61535, 61536, 61539, 61541, 61543               | 8-10-12-13-14-17-19-22      |
| 69107 | 10   | 90054 | 61530, 61531, 61532, 61533, 61534, 61535, 61536, 61539, 61541, 61543 | 8-9-10-11-12-13-14-17-19-22 |







**INCH**

| COD.  | PCS. |       | COD. PCS.                                                            | (inch)                                                            |
|-------|------|-------|----------------------------------------------------------------------|-------------------------------------------------------------------|
| 69101 | 6    | 90080 | 61546, 61547, 61548, 61549, 61550, 61552                             | 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 3/4                               |
| 69102 | 8    | 90081 | 61545, 61546, 61547, 61548, 61549, 61550, 61551, 61552               | 5/16 - 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16 - 3/4                |
| 69103 | 10   | 90054 | 61546, 61547, 61548, 61549, 61550, 61551, 61552, 61553, 61554, 61555 | 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16 - 3/4 - 13/16 - 7/8 - 15/16 |





## ■ MM

| COD.                                           |   | PCS.                                                                                                          |  |
|------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>68525</b>                                   | A | 10                                                                                                            | 1000                                                                              |
| <b>Composición / Composition / Composition</b> |   |                                                                                                               |                                                                                   |
| 61530, 61532, 61534, 61535, 61539, 61541       |   | 8-10-12-13-17-19 mm        |                                                                                   |
| 62772, 62773, 62774                            |   | 1/4-10, 3/8-17, 1/2-19 mm  |                                                                                   |
| 62775                                          |   | 1/4"-1/4"                  |                                                                                   |







## ■ MM

| COD.                                           |   | PCS.                                                                                                    |  |
|------------------------------------------------|---|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>68526</b>                                   | A | 6                                                                                                       | 800                                                                               |
| <b>Composición / Composition / Composition</b> |   |                                                                                                         |                                                                                   |
| 61530, 61532, 61534, 61535, 61539, 61541       |   | 8-10-12-13-17-19 mm  |                                                                                   |





## ■ MM

| COD.                                                                               |   | PCS.                                                                                                                       |  |
|------------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>68527</b>                                                                       | A | 16                                                                                                                         | 2000                                                                               |
| <b>Composición / Composition / Composition</b>                                     |   |                                                                                                                            |                                                                                    |
| 61530, 61531, 61532, 61533, 61534, 61535, 61536, 61537, 61538, 61539, 61540, 61541 |   | 8-9-10-11-12-13-14-15-16-17-18-19 mm  |                                                                                    |
| 62772, 62773, 62774                                                                |   | 1/4-10, 3/8-17, 1/2-19 mm             |                                                                                    |
| 62775                                                                              |   | 1/4"-1/4"                             |                                                                                    |



## ■ MM

| COD.                                                                               |   | PCS.                                                                                                                       |  |
|------------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>68528</b>                                                                       | A | 12                                                                                                                         | 1800                                                                                |
| <b>Composición / Composition / Composition</b>                                     |   |                                                                                                                            |                                                                                     |
| 61530, 61531, 61532, 61533, 61534, 61535, 61536, 61537, 61538, 61539, 61540, 61541 |   | 8-9-10-11-12-13-14-15-16-17-18-19 mm  |                                                                                     |

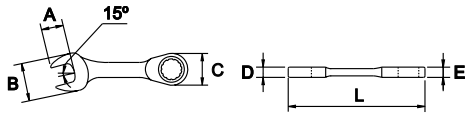


A Cromado pulido espejo / Mirror polished chrome plating / Polie chromée / Verchromt geschliffen / Cromate lucide / Cromado pulido / Полированный хром

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If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
Si vous ne trouvez pas l'article que vous desirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)

**MASTERGEAR STUBBY**

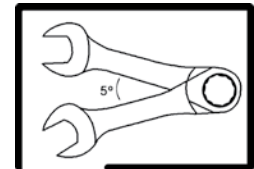
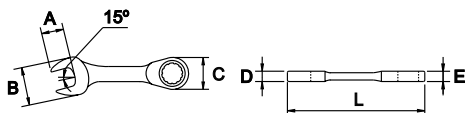
**LLAVE COMBINADA DE CARRACA SERIE CORTA / STUBBY MASTERGEAR COMBINATION RATCHET WRENCH / CLÉ MIXTE À CLIQUET COURTE MASTERGEAR / RATSCHEN-RINGGABELSCHLÜSSEL STUBBY / CHIAVE COMBINATA A CRICCO SERIE CORTA MASTERGEAR / CHAVE DE BOCA E LUNETA ROQUETE SERIE CURTA MASTERGEAR / КЛЮЧ КОРОТКИЙ ТРЕЩЕТОЧНЫЙ КОМБИНИРОВАННЫЙ MASTERGEAR**

**MM**


| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   |    |     |
|-------|-------|--------|--------|--------|--------|--------|--------|-----|----|-----|
| 62710 | 8     | 90     | 9,5    | 17     | 17     | 4,0    | 7,4    | 29  | 10 | ● A |
| 62711 | 9     |        | 10     | 19     | 19     |        | 36     |     |    |     |
| 62712 | 10    | 100    | 11     | 21     | 22     | 4,5    | 44     |     |    |     |
| 62713 | 11    | 105    | 12     | 22     | 23     | 5,0    | 60     |     |    |     |
| 62714 | 12    |        | 13     | 23     | 25     | 5,5    | 8,4    | 70  |    |     |
| 62715 | 13    | 110    | 15     | 25     | 26     | 6,0    | 80     |     |    |     |
| 62716 | 14    | 115    | 16     | 26     | 30     |        | 90     |     |    |     |
| 62717 | 15    | 120    | 17     | 28     | 31     | 7,0    | 10,0   | 105 |    |     |
| 62718 | 16    |        | 18     | 29     | 33     | 120    |        |     |    |     |
| 62719 | 17    | 130    | 20     | 30     | 36     | 8,0    | 11,4   | 140 |    |     |
| 62720 | 18    |        | 21     | 32     | 38     |        | 160    |     |    |     |
| 62721 | 19    | 135    | 21     | 34     | 39     | 8,0    | 11,4   | 160 |    |     |

**DIN 1711 | Modelo registrado / Registered model / Modèle enregistré**
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

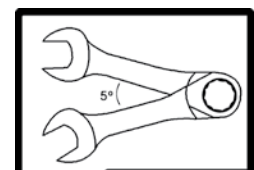
Cr-V


**INCH**


| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   |    |     |
|-------|---------|--------|--------|--------|--------|--------|--------|-----|----|-----|
| 62722 | 5/16    | 90     | 9,0    | 17     | 17     | 4,0    | 7,4    | 29  | 10 | ● A |
| 62723 | 3/8     | 100    | 12     | 21     | 22     | 4,5    | 44     |     |    |     |
| 62724 | 7/16    | 105    |        | 22     | 23     | 5,0    | 60     |     |    |     |
| 62725 | 1/2     | 110    | 14     | 25     | 26     | 6,0    | 70     |     |    |     |
| 62726 | 9/16    | 115    | 16     | 26     | 30     |        | 80     |     |    |     |
| 62727 | 5/8     | 120    | 17     | 29     | 33     | 7,0    | 10,0   | 105 |    |     |
| 62728 | 11/16   | 130    | 20     | 30     | 36     | 8,0    | 11,4   | 120 |    |     |
| 62729 | 3/4     | 135    | 22     | 34     | 39     |        | 160    |     |    |     |

**DIN 1711 | Modelo registrado / Registered model / Modèle enregistré**
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



■ SET

■ MM

| COD.         |   | PCS. |      |
|--------------|---|------|------|
| <b>69872</b> | A | 14   | 1300 |

Composición / Composition / Composition

|                                                                      |                                  |  |
|----------------------------------------------------------------------|----------------------------------|--|
| 62712, 62713, 62714, 62715, 62716, 62717, 62718, 62719, 62720, 62721 | 10-11-12-13-14-15-16-17-18-19 mm |  |
| 62772, 62773, 62774                                                  | 1/4-10, 3/8-17, 1/2-19 mm        |  |
| 62775                                                                | 1/4"-1/4"                        |  |



■ MM

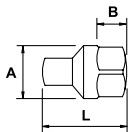
| COD.         |   | PCS. |      |
|--------------|---|------|------|
| <b>69873</b> | A | 10   | 1100 |

Composición / Composition / Composition

|                                                                      |                                  |  |
|----------------------------------------------------------------------|----------------------------------|--|
| 62712, 62713, 62714, 62715, 62716, 62717, 62718, 62719, 62720, 62721 | 10-11-12-13-14-15-16-17-18-19 mm |  |
|----------------------------------------------------------------------|----------------------------------|--|



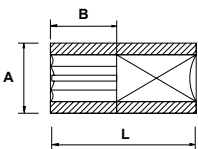
■ ADAPTADOR PARA LLAVE / WRENCH ADAPTER / ADAPTATEUR POUR CLÉ / SCHRAUBENSCHLÜSSEL ADAPTER / ADATTATORE PER CHIAVE / ADAPTADOR PARA CHAVE / ПЕРЕХОДНИК ДЛЯ ГОЛОВОК



| COD.         |            | L (mm) | A (mm) | B (mm) |    |   |   |
|--------------|------------|--------|--------|--------|----|---|---|
| <b>62772</b> | 1/4"-10 mm | 20     | 11     | 8      | 12 |   |   |
| <b>62773</b> | 3/8"-17 mm | 28     | 19     | 9      | 39 | 6 | ● |
| <b>62774</b> | 1/2"-19 mm | 35     | 22     | 13     | 65 |   |   |

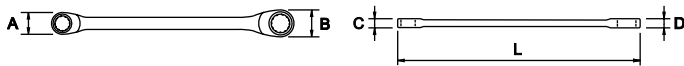






■ ADAPTADOR CON CLIP DE RETENCIÓN / RETENTION CLIP ADAPTER / ADAPTATEUR AVEC CLIP DE RÉTENTION / HALTEKLAMMER ADAPTOR / ADATTATORE CON CLIP DI RITENZIONE / ADAPTADOR COM CLIP DE RETENÇÃO / ПЕРЕХОДНИК (АДАПТЕР) С УДЕРЖИВАЮЩИМ ШАРИКОМ



| COD.         |           | L (mm) | A (mm) | B (mm) |    |   |   |
|--------------|-----------|--------|--------|--------|----|---|---|
| <b>62775</b> | 1/4"-1/4" | 25     | 12     | 12     | 10 | 6 | ● |

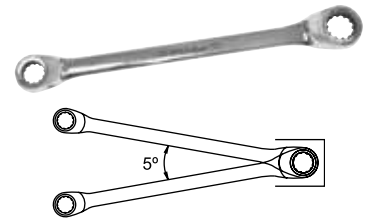
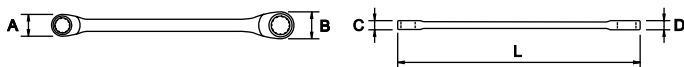






**MASTERGEAR DOUBLE**
**LLAVE DE CARRACA DOBLE MASTERGEAR / MASTERGEAR DOUBLE RATCHET WRENCH / CLÉ À DOUBLE CLIQUET MASTERGEAR / MASTERGEAR DOPPEL KNARRE RINGSCHLÜSSEL / CHIAVE DOPPIA A CRICCO / CHAVE DE ROQUETE DUPLO MASTERGEAR / MASTERGEAR КЛЮЧ С ДВОЙНОЙ ТРЕЩЕТКОЙ**
**MM**


| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 63280 | 8-9                                                                               | 149    | 18     | 21     | 7,4    |        | 60                                                                                |                                                                                   |                                                                                    |
| 63281 | 10-11                                                                             | 167    | 21     | 22     | 8,4    | 8,4    |                                                                                   |                                                                                   |                                                                                    |
| 58095 | 12-13                                                                             | 185    | 26     | 26     | 8,5    | 9,0    |                                                                                   | 8                                                                                 |                                                                                    |
| 63282 | 12-15                                                                             | 225    | 23     | 28     | 8,4    | 8,4    |                                                                                   |                                                                                   |                                                                                    |
| 63283 | 13-14                                                                             | 250    | 25     | 26     |        |        | 150                                                                               |                                                                                   |                                                                                    |
| 58096 | 14-15                                                                             | 202    | 29     | 29     | 9,7    | 9,7    |                                                                                   |                                                                                   | ● A                                                                                |
| 58097 | 16-17                                                                             | 220    | 32     |        | 10     | 10     | 200                                                                               | 8/8                                                                               |                                                                                    |
| 63284 | 16-18                                                                             | 270    | 29     | 32     |        | 11,5   |                                                                                   |                                                                                   |                                                                                    |
| 58098 | 18-19                                                                             | 238    | 35     | 36     | 11,1   | 11,3   | 250                                                                               | 8                                                                                 |                                                                                    |
| 58099 | 20-22                                                                             | 255    | 40     | 40     | 13     | 13     | 390                                                                               | 5                                                                                 |                                                                                    |

**DIN 1711 | Modelo registrado / Registered model / Modèle enregistré**
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

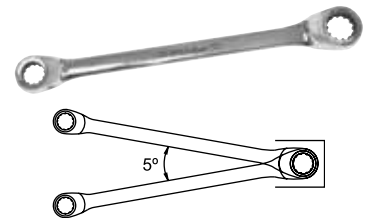
Cr-V



**INCH**


| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 63288 | 5/16-3/8                                                                            | 160    | 18     | 21     | 7,5    |        | 60                                                                                  |                                                                                     |                                                                                      |
| 63289 | 3/8-7/16                                                                            | 165    | 21     | 24     | 8,5    | 8,5    | 90                                                                                  |                                                                                     |                                                                                      |
| 63290 | 1/2-9/16                                                                            | 195    | 25     | 28     |        |        | 150                                                                                 | 8                                                                                   |                                                                                      |
| 63291 | 11/16-3/4                                                                           | 230    | 30     | 34     | 10     | 12     | 250                                                                                 |                                                                                     | ● A                                                                                  |
| 63292 | 13/16-15/16                                                                         | 320    | 38     | 45     | 13     | 14     |                                                                                     | 5                                                                                   |                                                                                      |

**DIN 1711 | Modelo registrado / Registered model / Modèle enregistré**
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V


**SET**
**MM**

| COD.  | PCS. |  | COD.  | PCS.                                     | (mm)                                   |
|-------|------|-------------------------------------------------------------------------------------|-------|------------------------------------------|----------------------------------------|
| 69990 | A    | 6                                                                                   | 90056 | 63280, 63281, 63282, 63283, 58097, 58098 | 8-9, 10-11, 12-15, 13-14, 16-17, 18-19 |





**EXPOSITORES MASTERGEAR / MASTERGEAR DISPLAYS / PRÉSENTOIRS MASTERGEAR / MASTERGEAR AUSSTELLUNGSSTAND / ESPOSITORI MASTERGEAR / EXPOSITORES MASTERGEAR / ДИСПЛЕЙ С КЛЮЧАМИ MASTERGEAR**

■ 186 PCS.

■ MM



| COD.         |           | PCS.  |
|--------------|-----------|-------|
| <b>55650</b> |           | A 186 |
| PCS.         | COD. PCS. | Mod.  |
| 20           | 62651     | 8 mm  |
|              | 62653     | 10 mm |
|              | 62654     | 11 mm |
|              | 62655     | 12 mm |
|              | 62656     | 13 mm |
|              | 62657     | 14 mm |
| 16           | 62658     | 15 mm |
|              | 62659     | 16 mm |
| 14           | 62660     | 17 mm |
| 14           | 62662     | 19 mm |

■ MM

| COD.         |           | PCS.  |
|--------------|-----------|-------|
| <b>55651</b> |           | A 186 |
| PCS.         | COD. PCS. | Mod.  |
| 20           | 62680     | 8 mm  |
|              | 62682     | 10 mm |
|              | 62683     | 11 mm |
|              | 62684     | 12 mm |
|              | 62685     | 13 mm |
|              | 62686     | 14 mm |
| 16           | 62687     | 15 mm |
|              | 62688     | 16 mm |
| 14           | 62689     | 17 mm |
| 14           | 62691     | 19 mm |

■ MM

| COD.         |           | PCS.  |
|--------------|-----------|-------|
| <b>55652</b> |           | A 186 |
| PCS.         | COD. PCS. | Mod.  |
| 20           | 61530     | 8 mm  |
|              | 61532     | 10 mm |
|              | 61533     | 11 mm |
|              | 61534     | 12 mm |
|              | 61535     | 13 mm |
|              | 61536     | 14 mm |
| 16           | 61537     | 15 mm |
|              | 61538     | 16 mm |
| 14           | 61539     | 17 mm |
| 14           | 61541     | 19 mm |

MASTERGEAR ART. / MASTERGEAR JOINT

■ 180 PCS.

■ MM

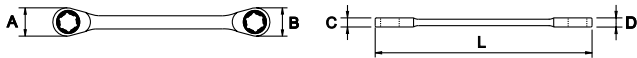






| COD.         |           | PCS.  |
|--------------|-----------|-------|
| <b>65970</b> |           | A 180 |
| PCS.         | COD. PCS. | Mod.  |
| 20           | 62653     | 10 mm |
|              | 62655     | 12 mm |
|              | 62656     | 13 mm |
|              | 62660     | 17 mm |
| 16           | 62662     | 19 mm |
|              | 62682     | 10 mm |
| 20           | 62684     | 12 mm |
|              | 62685     | 13 mm |
| 16           | 62689     | 17 mm |
| 14           | 62691     | 19 mm |

MASTERGEAR

MASTERGEAR REV.

A Cromado pulido espejo / Mirror polished chrome plating / Polie chromée / Verchromt geschliffen / Cromate lucide / Cromado pulido / Полированный хром

**MASTERGEAR E-TORX®\***


| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 62734 | E6 x E8                                                                           | 120    | 18     | 18     | 7,4    | 7,4    | 49                                                                                | 10                                                                                |                                                                                    |
| 62735 | E10 x E12                                                                         | 135    |        | 19     |        | 8,4    | 60                                                                                |                                                                                   |                                                                                    |
| 62736 | E14 x E16                                                                         | 180    | 22     | 25     | 8,4    |        | 105                                                                               | 8                                                                                 | ● A                                                                                |
| 62737 | E18 x E20                                                                         | 200    | 26     | 29     |        | 10,0   | 145                                                                               | 10                                                                                |                                                                                    |
| 62738 | E22 x E24                                                                         | 220    | 30     | 34     | 10,0   | 11,5   | 210                                                                               |                                                                                   |                                                                                    |

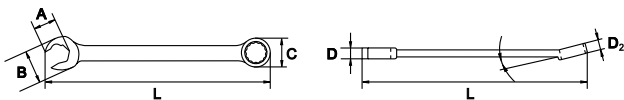
DIN 1711 | Modelo registrado / Registered model / Modèle enregistré





**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V


**SET**
**MM**

| COD.  | PCS. | COD. PCS. | Composición / Composition / Composition |  |     |
|-------|------|-----------|-----------------------------------------|-------------------------------------------------------------------------------------|-----|
| 69874 | A    | 5         | 62734, 62735, 62736, 62737, 62738       | E6 x E8 - E10 x E12 - E14 x E16 - E18 x E20 - E22 x E24                             | 950 |


**RAPID WRENCH**
**LLAVE COMBINADA RÁPIDA / RAPID COMBINATION WRENCH / CLÉ MIXTE RAPIDE / RINGGABELSCHLÜSSEL RAPID / CHIAVE COMBINATA RAPIDA / CHAVE BOCA E LUNETA DE RETOMA RÁPIDA / БЫСТРЫЙ КОМБИНИРОВАННЫЙ КЛЮЧ**
**MM**


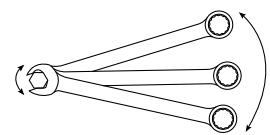
| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | D2 (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 62740 | 8                                                                                   | 140    | 6,5    | 18     | 15     | 5      | 7       | 32                                                                                  |                                                                                     |                                                                                      |
| 62742 | 10                                                                                  | 160    | 8,0    | 22     | 17     | 6      | 8       | 55                                                                                  |                                                                                     |                                                                                      |
| 62743 | 11                                                                                  | 170    | 9,5    | 24     | 19     | 6      | 8       | 70                                                                                  |                                                                                     |                                                                                      |
| 62744 | 12                                                                                  | 175    | 10     | 26     | 20     | 7      | 9       | 80                                                                                  |                                                                                     |                                                                                      |
| 62745 | 13                                                                                  | 180    | 11     | 28     | 21     |        |         | 90                                                                                  |                                                                                     |                                                                                      |
| 62746 | 14                                                                                  | 195    |        | 31     | 23     |        |         | 110                                                                                 | 10                                                                                  |                                                                                      |
| 62747 | 15                                                                                  | 210    | 12     | 33     | 24     | 8      | 10      | 135                                                                                 |                                                                                     |                                                                                      |
| 62748 | 16                                                                                  | 210    |        | 33     | 24     | 8      | 10      | 150                                                                                 |                                                                                     |                                                                                      |
| 62749 | 17                                                                                  | 230    | 14     | 37     | 27     | 9      | 12      | 170                                                                                 |                                                                                     | ● A                                                                                  |
| 62750 | 18                                                                                  |        |        |        |        |        |         |                                                                                     |                                                                                     |                                                                                      |
| 62751 | 19                                                                                  | 250    | 16     | 41     | 30     | 10     | 13      | 220                                                                                 |                                                                                     |                                                                                      |
| 62752 | 20                                                                                  |        |        |        |        |        |         |                                                                                     |                                                                                     |                                                                                      |
| 62753 | 21                                                                                  | 270    | 17     | 45     | 32     |        |         | 290                                                                                 |                                                                                     |                                                                                      |
| 62754 | 22                                                                                  | 300    |        | 47     |        |        |         | 320                                                                                 | 5                                                                                   |                                                                                      |
| 62755 | 23                                                                                  | 300    | 19     | 50     | 34     | 11     | 14      | 350                                                                                 |                                                                                     |                                                                                      |
| 62756 | 24                                                                                  | 320    |        |        |        |        |         | 395                                                                                 |                                                                                     |                                                                                      |
| 62757 | 26                                                                                  | 340    | 21     | 55     | 37     |        | 16      | 470                                                                                 |                                                                                     |                                                                                      |

DIN 1711

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

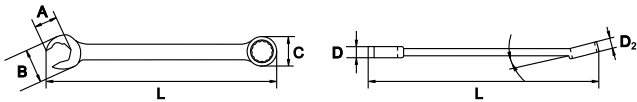
Cr-V

Acción carraca / Ratchet action / Action à cliquet


 Acción carraca / Ratchet action /  
Action à cliquet

\*Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)

A Cromado pulido espejo / Mirror polished chrome plating / Polie chromée / Verchromt geschliffen / Cromate lucide / Cromado pulido / Полированный хром

**INCH**


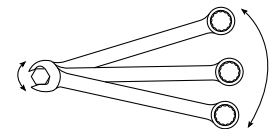
| COD.  | AP inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | D2 (mm) | g   | Icon 1 | Icon 2 |
|-------|---------|--------|--------|--------|--------|--------|---------|-----|--------|--------|
| 62759 | 3/8     | 160    | 8      | 22     | 17     | 6      | 8       | 55  |        |        |
| 62760 | 7/16    | 170    | 9,5    | 24     | 19     | 6      | 8       | 70  |        |        |
| 62761 | 1/2     | 180    | 11     | 28     | 21     | 7      | 9       | 90  |        |        |
| 62762 | 9/16    | 195    | 12     | 31     | 23     | 8      | 10      | 110 | 10     |        |
| 62763 | 5/8     | 210    | 14     | 33     | 24     | 9      | 12      | 150 |        |        |
| 62764 | 11/16   | 230    | 14     | 37     | 27     | 9      | 12      | 170 |        |        |
| 62765 | 3/4     | 250    | 16     | 41     | 30     | 10     | 13      | 220 |        |        |
| 62766 | 13/16   | 270    | 17     | 45     | 32     | 11     | 14      | 290 |        |        |
| 62767 | 7/8     | 300    | 19     | 47     | 34     | 11     | 14      | 320 | 5      |        |
| 62768 | 15/16   | 320    | 21     | 50     | 37     | 12     | 16      | 395 |        |        |
| 62769 | 1       | 340    | 21     | 55     | 37     | 12     | 16      | 470 |        |        |

DIN 1711

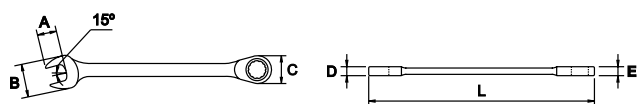
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

Acción carraca / Ratchet action / Action à cliquet



Acción carraca / Ratchet action / Action à cliquet

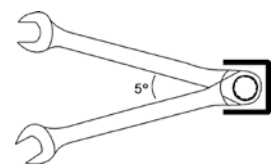
**CLASSICGEAR**
**LLAVE COMBINADA DE CARRACA CLASSICGEAR / CLASSICGEAR COMBINATION RATCHET WRENCH / CLÉ MIXTE À CLIQUET CLASSICGEAR / RATCHEN-RINGGABELSCHLÜSSEL CLASSICGEAR / CHIAVI COMBINATE A CRICCO CLASSICGEAR / CHAVE DE BOCA E LUNETA DE ROQUETE CLASSICGEAR / CLASSICGEAR КОМБИНИРОВАННЫЙ КЛЮЧ С ТРЕЩЕТКОЙ**
**MM**


| COD.  | AP mm | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   | Icon 1 | Icon 2 |
|-------|-------|--------|--------|--------|--------|--------|--------|-----|--------|--------|
| 63788 | 6     | 114    |        | 17     | 17     | 4,2    | 7      | 41  |        |        |
| 63805 | 7     | 130    | 10     | 20     | 19     | 4,7    | 7,7    | 49  |        |        |
| 63790 | 8     | 130    | 10     | 20     | 19     | 4,7    | 7,7    | 49  |        |        |
| 63791 | 9     | 150    | 12     | 24     | 21     | 5,3    | 8,2    | 59  |        |        |
| 63792 | 10    | 170    | 14     | 26     | 23     | 5,9    | 8,5    | 80  |        |        |
| 63793 | 11    | 190    | 15     | 30     | 26     | 6,5    | 9,4    | 110 | 10     |        |
| 63794 | 12    | 200    | 17     | 31     | 29     | 7,1    | 9,7    | 140 |        |        |
| 63795 | 13    | 220    | 20     | 37     | 32     | 7,7    | 10,8   | 195 |        |        |
| 63796 | 14    | 240    | 21     | 41     | 35     | 8,3    | 11,3   | 230 |        |        |
| 63797 | 15    | 250    | 22     | 44     | 39     | 8,9    | 11,8   | 280 |        |        |
| 63798 | 16    | 270    | 26     | 50     | 44     | 9,4    | 12,3   | 360 |        |        |
| 63799 | 17    | 290    | 26     | 55     | 48     | 10,2   | 13,1   | 520 | 8      |        |
| 63800 | 18    | 320    | 32     | 60     | 55     | 11,2   | 14,1   | 650 |        |        |
| 63801 | 19    | 340    | 36     | 65     | 55     | 12,4   | 15,8   | 940 |        |        |

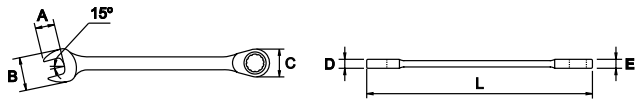
DIN 1711

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V


**A** Cromado pulido espejo / Mirror polished chrome plating / Polie chromée / Verchromt geschliffen / Cromate lucide / Cromado pulido / Полированный хром

## INCH

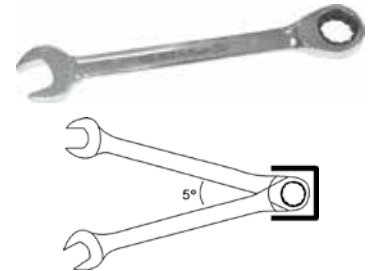


| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   | Icon 1 | Icon 2 |
|-------|---------|--------|--------|--------|--------|--------|--------|-----|--------|--------|
| 63806 | 5/16    | 130    | 10     | 20     | 19     | 4,7    | 7,7    | 50  | 10     | A      |
| 63807 | 3/8     | 150    | 12     | 24     | 21     | 5,3    | 8,2    | 60  |        |        |
| 63808 | 7/16    | 170    | 14     | 26     | 23     | 5,9    | 8,5    | 80  |        |        |
| 63809 | 1/2     | 190    | 16     | 30     | 26     | 6,5    | 9,4    | 110 |        |        |
| 63810 | 9/16    | 200    | 17     | 31     | 29     | 7,1    | 9,7    | 140 |        |        |
| 63811 | 5/8     | 220    | 20     | 37     | 32     | 7,7    | 10,8   | 195 |        |        |
| 63812 | 11/16   |        | 21     |        |        |        |        |     |        |        |
| 63813 | 3/4     | 240    |        | 41     | 35     | 8,3    | 11,3   | 230 |        |        |
| 63814 | 13/16   |        | 22     | 44     | 39     | 8,9    | 11,8   | 280 |        |        |
| 63815 | 7/8     | 250    | 23     |        |        |        |        | 280 |        |        |
| 63816 | 1       | 290    | 31     | 50     | 44     | 10,2   | 13,1   | 440 | 8      |        |

DIN 1711

### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V



## SET

## MM

| COD.  | PCS. | Icon  | COD. PCS.                                                                          | (mm)                                         |
|-------|------|-------|------------------------------------------------------------------------------------|----------------------------------------------|
| 68230 | 6    | 90056 | 63790, 63792, 63794, 63795, 63799, 63801                                           | 8, 10, 12, 13, 17, 19                        |
| 68231 | A    | 90083 | 63790, 63791, 63792, 63793, 63794, 63795, 63796, 63797, 63798, 63799, 63800, 63801 | 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 |



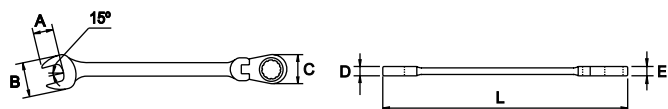
## INCH

| COD.  | PCS. | Icon  | COD. PCS.                                                            | (inch)                                                        |
|-------|------|-------|----------------------------------------------------------------------|---------------------------------------------------------------|
| 68232 | 6    | 90056 | 63806, 63807, 63808, 63809, 63812, 63813                             | 5/16 - 3/8 - 7/16 - 1/2 - 11/16 - 3/4                         |
| 68233 | A    | 90054 | 63807, 63808, 63809, 63810, 63811, 63812, 63813, 63814, 63815, 63816 | 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16 - 3/4 - 13/16 - 7/8 - 1 |



**CLASSICGEAR ARTICULADA / CLASSICGEAR JOINT / CLASSICGEAR ARTICULÉE / RATSCHENRINGGABELSCHLUSSEL MIT VERSTELLBAREM KOPF / CLASSICGEAR SNODATA / CLASSICGEAR ARTICULADA / CLASSICGEAR ШАРНИР**
**LLAVE COMBINADA DE CARRACA ARTICULADA CLASSICGEAR / CLASSICGEAR JOINT COMBINATION RATCHET WRENCH / CLÉ MIXTE À CLIQUET ARTICULÉE CLASSICGEAR / RATSCHEN-RINGGABELSCHLÜSSEL MIT VERSTELBAREM KOPF / CHIAVI COMBINATE A CRICCO ARTICOLATA CLASSICGEAR / CHAVE DE BOCA E LUNETA DE ROQUETE ARTICULADO CLASSICGEAR / CLASSICGEAR КОМБИНИРОВАННЫЙ КЛЮЧ С ПОВОРТНОЙ ТРЕЩЕТКОЙ**

MM

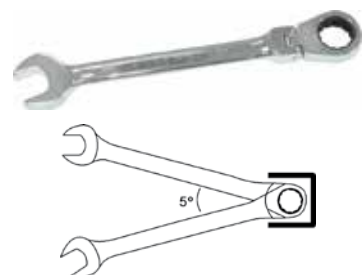


| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   |    |    |    |      |      |     |     |     |     |
|-------|-------|--------|--------|--------|--------|--------|--------|-----|----|----|----|------|------|-----|-----|-----|-----|
| 63833 | 6     | 124    | 10     | 17     | 17     | 4,2    | 7      | 50  | 10 | A  |    |      |      |     |     |     |     |
| 63817 | 7     |        |        |        |        |        |        |     |    |    |    |      |      |     |     |     |     |
| 63818 | 8     |        |        |        |        |        |        |     |    |    |    |      |      |     |     |     |     |
| 63819 | 9     | 140    | 20     | 19     | 4,7    | 7,7    | 55     |     |    |    |    |      |      |     |     |     |     |
| 63820 | 10    |        |        |        |        |        |        | 160 |    |    | 12 | 24   | 21   | 5,3 | 8,2 | 70  |     |
| 63821 | 11    |        |        |        |        |        |        |     |    |    |    |      |      |     |     |     | 175 |
| 63822 | 12    | 190    | 15     | 30     | 26     | 6,5    | 9,4    |     |    |    |    |      |      |     |     |     |     |
| 63824 | 14    |        |        |        |        |        |        | 210 |    |    | 17 | 31   | 29   | 7,1 | 9,7 | 170 |     |
| 63825 | 15    |        |        |        |        |        |        |     |    |    |    |      |      |     |     |     | 230 |
| 63826 | 16    | 250    | 21     | 41     | 35     | 8,3    | 11,3   |     |    |    |    |      |      |     |     |     |     |
| 63828 | 18    |        |        |        |        |        |        | 260 | 22 | 44 | 39 | 8,9  | 11,8 | 310 |     |     |     |
| 63830 | 21    |        |        |        |        |        |        |     |    |    |    |      |      |     | 270 | 26  | 50  |
| 63831 | 22    | 290    | 26     | 55     | 48     | 10,2   | 13,1   |     |    |    |    |      |      |     |     |     |     |
| 63832 | 24    |        |        |        |        |        |        | 320 | 32 | 60 | 55 | 11,2 | 14,1 | 670 |     |     |     |
| 63930 | 27    |        |        |        |        |        |        |     |    |    |    |      |      |     | 390 | 36  | 65  |
| 63931 | 30    |        |        |        |        |        |        |     |    |    |    |      |      |     |     |     |     |
| 63932 | 32    |        |        |        |        |        |        |     |    |    |    |      |      |     |     |     |     |

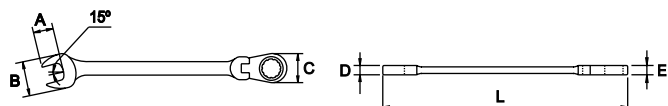
DIN 1711

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



INCH

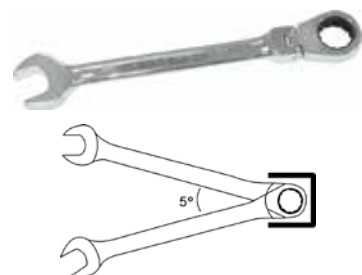


| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g    |    |   |
|-------|---------|--------|--------|--------|--------|--------|--------|------|----|---|
| 63834 | 5/16    | 140    | 10     | 20     | 19     | 4,7    | 7,7    | 50   | 10 | A |
| 63835 | 3/8     | 155    | 12     | 24     | 21     | 5,3    | 8,2    | 70   |    |   |
| 63836 | 7/16    | 175    | 14     | 26     | 23     | 5,9    | 8,5    | 95   |    |   |
| 63837 | 1/2     | 195    | 16     | 30     | 26     | 6,5    | 9,4    | 130  |    |   |
| 63838 | 9/16    | 210    | 17     | 31     | 29     | 7,1    | 9,7    | 170  |    |   |
| 63839 | 5/8     | 230    | 19     | 37     | 32     | 7,7    | 10,8   | 220  |    |   |
| 63840 | 11/16   | 250    | 21     | 41     | 35     | 8,3    | 11,3   | 260  |    |   |
| 63841 | 3/4     | 260    | 22     | 44     | 39     | 8,9    | 11,8   | 310  |    |   |
| 63842 | 13/16   | 290    | 26     | 50     | 44     | 9,4    | 12,3   | 390  |    |   |
| 63843 | 7/8     | 320    | 32     | 60     | 55     | 11,2   | 14,1   | 670  |    |   |
| 63844 | 1       | 390    | 36     | 65     | 65     | 12,4   | 15,8   | 1040 |    |   |

DIN 1711

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**


Cr-V



A Cromado pulido espejo / Mirror polished chrome plating / Polie chromée / Verchromt geschliffen / Cromate lucide / Cromado pulido / Полированный хром


## ■ SET

## ■ MM

| COD.         | PCS. |  | COD. PCS.                                                                          | (mm)                                         |
|--------------|------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------|
| <b>68234</b> | 6    | 90056                                                                             | 63818, 63820, 63822, 63823, 63827, 63829                                           | 8, 10, 12, 13, 17, 19                        |
| <b>68235</b> | 12   | 90083                                                                             | 63818, 63819, 63820, 63821, 63822, 63823, 63824, 63825, 63826, 63828, 63829, 63827 | 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 |



## ■ INCH

| COD.         | PCS. |  | COD. PCS.                                                            | (inch)                                                        |
|--------------|------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------|
| <b>68236</b> | 6    | 90056                                                                             | 63834, 63835, 63836, 63837, 63840, 63841                             | 5/16 - 3/8 - 7/16 - 1/2 - 11/16 - 3/4                         |
| <b>68237</b> | 10   | 90054                                                                             | 63835, 63836, 63837, 63838, 63839, 63840, 63841, 63842, 63843, 63844 | 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16 - 3/4 - 13/16 - 7/8 - 1 |


**EXPOSITORES CLASSICGEAR / CLASSICGEAR DISPLAYS / PRÉSENTOIRS CLASSICGEAR / CLASSICGEAR AUSSTELLUNGSSTAND / ESPOSITORI CLASSICGEAR /**  
**EXPOSITORES CLASSICGEAR / ДИСПЛЕЙ С ГАЕЧНЫМИ КЛЮЧАМИ CLASSICGEAR**

## ■ 186 PCS.

## ■ MM

| COD.         | PCS. | Mod.        |
|--------------|------|-------------|
| <b>55653</b> | A    | 186         |
|              | PCS. | COD. PCS.   |
|              | 20   | 63790 8 mm  |
|              |      | 63792 10 mm |
|              |      | 63793 11 mm |
|              |      | 63794 12 mm |
|              |      | 63795 13 mm |
|              |      | 63796 14 mm |
|              |      | 63797 15 mm |
|              | 16   | 63798 16 mm |
|              |      | 63799 17 mm |
|              | 14   | 63801 19 mm |

CLASSICGEAR



## ■ MM

| COD.         | PCS. | Mod.        |
|--------------|------|-------------|
| <b>55654</b> | A    | 186         |
|              | PCS. | COD. PCS.   |
|              | 20   | 63818 8 mm  |
|              |      | 63820 10 mm |
|              |      | 63821 11 mm |
|              |      | 63822 12 mm |
|              |      | 63823 13 mm |
|              |      | 63824 14 mm |
|              |      | 63825 15 mm |
|              | 16   | 63826 16 mm |
|              |      | 63827 17 mm |
|              | 14   | 63829 19 mm |

CLASSICGEAR ART. / CLASSICGEAR JOINT



■ 180 PCS.

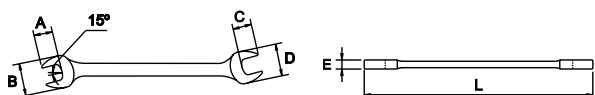
■ MM

| COD.  |           |       | PCS.                                 |
|-------|-----------|-------|--------------------------------------|
| 65971 | A         |       | 180                                  |
| PCS.  | COD. PCS. |       | Mod.                                 |
| 20    | 63792     | 10 mm | CLASSICGEAR                          |
|       | 63794     | 12 mm |                                      |
|       | 63795     | 13 mm |                                      |
| 16    | 63799     | 17 mm |                                      |
| 14    | 63801     | 19 mm |                                      |
|       | 63820     | 10 mm | CLASSICGEAR ART. / CLASSICGEAR JOINT |
| 20    | 63822     | 12 mm |                                      |
|       | 63823     | 13 mm |                                      |
| 16    | 63827     | 17 mm |                                      |
| 14    | 63829     | 19 mm |                                      |



■ LlavES FIJAS / OPEN-END WRENCHES / CLÉS À FOURCHE / GABELSCHLÜSSEL / CHIAVI FISSE / CHAVES DUAS BOCAS / РОЖКОВЫЕ КЛЮЧИ

■ MM



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   | 5 | B   |
|-------|-------|--------|--------|--------|--------|--------|--------|-----|---|-----|
| 67963 | 4-4,5 |        |        |        |        |        |        |     |   |     |
| 67965 | 4-5   | 100    |        | 13     |        | 14     | 3,4    | 10  |   |     |
| 67967 | 5-5,5 |        | 9,0    | 14     | 9,0    | 16     |        |     |   |     |
| 67907 | 5-7   |        |        |        |        |        |        | 20  |   |     |
| 61701 | 6-7   | 125    |        | 16     | 10     | 18     | 3,9    | 22  |   |     |
| 62928 | 7-8   |        | 9,5    |        |        |        |        | 25  |   |     |
| 61702 | 8-9   | 140    | 10     | 19     |        | 21     |        | 38  |   |     |
| 67908 | 8-10  |        |        |        |        |        |        | 40  |   |     |
| 61703 | 10-11 | 155    |        | 21     | 11     | 24     |        | 50  |   |     |
| 62629 | 10-13 |        | 11     |        |        |        |        |     |   |     |
| 67909 | 11-13 |        |        | 26     |        |        | 5,5    | 55  |   |     |
| 61704 | 12-13 | 175    | 12     |        |        | 28     |        |     |   |     |
| 67910 | 12-14 |        |        | 28     |        |        |        | 70  |   |     |
| 67911 | 13-14 |        |        |        |        |        |        |     |   |     |
| 67912 | 13-15 | 190    |        |        |        | 32     | 6,0    | 100 |   |     |
| 67913 | 13-16 |        |        |        | 15     |        |        |     |   |     |
| 61705 | 14-15 |        | 14     | 30     |        | 33     |        |     | 5 | ● B |
| 67914 | 13-17 |        |        |        |        | 34     |        | 110 |   |     |
| 62930 | 14-17 | 210    |        | 33     |        |        | 7,0    |     |   |     |
| 61706 | 16-17 |        |        | 35     | 16     | 36     |        | 130 |   |     |
| 67915 | 16-18 |        |        |        |        |        |        |     |   |     |
| 61700 | 17-19 |        | 17     |        |        |        |        | 160 |   |     |
| 61707 | 18-19 | 220    | 18     | 39     | 18     | 41     |        |     |   |     |
| 67916 | 18-21 |        |        |        |        | 42     | 8,0    |     |   |     |
| 62931 | 19-22 | 230    | 19     | 43     | 22     | 47     |        | 200 |   |     |
| 61708 | 20-22 |        |        |        |        |        |        |     |   |     |
| 61709 | 21-23 | 240    |        |        |        |        |        |     |   |     |
| 63961 | 21-24 | 250    | 23     | 47     | 23     | 50     |        | 250 |   |     |
| 67917 | 22-24 |        |        |        |        |        |        |     |   |     |
| 61710 | 24-26 | 260    |        |        |        |        | 9,0    |     |   |     |
| 61652 | 24-27 | 270    | 27     | 50     | 30     | 55     |        | 330 |   |     |
| 61711 | 25-28 |        |        |        |        |        |        | 420 |   |     |
| 61712 | 27-29 | 290    | 30     |        | 34     | 65     | 10     | 430 |   |     |
| 67918 | 27-30 | 300    | 34     | 55     | 35     | 65     |        | 460 |   |     |



A Cromado pulido espejo / Mirror polished chrome plating / Polie chromée / Verchromt geschliffen / Cromate lucide / Cromado polido / Полированный хром  
 B Cromado aeroespacial / Aerospaceal chrome plating / Chromée aérospatiale / Verchromt aerospaceal / Cromate satinare / Cromado fosco aeroespacial / Матовый хром

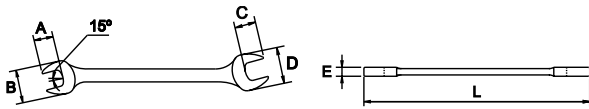
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 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
 Si vous ne trouvez pas l'article que vous desirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)

| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g    |   |   |   |
|-------|-------|--------|--------|--------|--------|--------|--------|------|---|---|---|
| 67919 | 27-32 |        |        |        |        |        |        | 460  |   |   |   |
| 61713 | 30-32 | 320    | 34     | 60     | 35     | 65     | 11     | 500  |   |   |   |
| 67970 | 36-41 |        | 36     | 80     | 42     | 70     | 12     | 850  | 5 | ● | B |
| 67920 | 38-42 | 360    |        | 85     |        | 75     |        | 900  |   |   |   |
| 67972 | 41-46 | 370    | 42     | 90     | 47     | 80     | 13     | 1200 |   |   |   |
| 67974 | 46-50 | 400    | 47     | 100    | 50     | 90     | 14     | 1500 |   |   |   |

DIN 3110

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**INCH**


| COD.  | AF inch       | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   |    |   |   |
|-------|---------------|--------|--------|--------|--------|--------|--------|-----|----|---|---|
| 60315 | 3/16-7/32     | 105    | 4      |        | 5      | 15     | 3,7    | 15  |    |   |   |
| 60300 | 1/4-5/16      | 120    | 8,0    | 14     | 9,0    | 17     | 3,6    | 22  |    |   |   |
| 60301 | 5/16-3/8      |        | 10     |        |        |        | 3,8    |     |    |   |   |
| 67941 | 5/16-11/32    | 140    | 11     | 20     | 12     | 22     | 4      | 38  |    |   |   |
| 67931 | 11/32-13/32   | 145    | 12     |        |        |        |        |     |    |   |   |
| 60302 | 3/8-7/16      | 160    |        | 22     | 13     | 24     |        | 50  | 10 |   |   |
| 67942 | 7/16-1/2      |        | 13     |        | 26     |        |        | 55  |    |   |   |
| 60303 | 1/2-9/16      | 175    |        | 26     | 15     | 28     | 5,5    | 60  |    |   |   |
| 60304 | 9/16-5/8      | 190    | 14     | 27     | 17     | 33     |        | 70  |    |   |   |
| 60305 | 19/32-11/16   |        | 17     |        | 19     |        |        | 85  |    |   |   |
| 60306 | 5/8-11/16     | 200    | 18     | 35     | 18     | 38     | 6,0    | 115 |    |   |   |
| 67943 | 5/8-3/4       | 210    |        |        | 20     | 36     | 7,0    | 125 |    |   |   |
| 60307 | 11/16-3/4     |        | 19     |        |        | 40     | 6,0    | 130 |    |   |   |
| 60308 | 3/4-25/32     | 220    |        | 38     | 21     | 41     | 6,5    | 160 |    |   |   |
| 67934 | 3/4-13/16     |        | 21     |        |        |        |        | 190 |    | ● | A |
| 60309 | 3/4-7/8       | 230    |        | 44     | 24     | 48     | 7,0    | 200 |    |   |   |
| 60310 | 13/16-7/8     |        | 25     |        | 45     |        | 7,5    | 250 |    |   |   |
| 67944 | 7/8-15/16     | 250    |        | 47     | 28     | 50     |        | 260 |    |   |   |
| 60311 | 15/16-1       | 260    |        | 50     |        |        |        | 330 | 5  |   |   |
| 67945 | 15/16-1.1/8   |        | 26     |        | 29     |        | 8,0    | 370 |    |   |   |
| 67939 | 1-1.1/16      |        |        |        | 28     | 60     |        | 390 |    |   |   |
| 60312 | 1-1.1/8       | 280    |        | 55     | 30     |        |        | 420 |    |   |   |
| 60313 | 1.1/16-1.1/8  |        | 28     |        | 31     |        | 8,5    | 430 |    |   |   |
| 60314 | 1.1/16-1.1/4  | 320    |        | 60     |        |        |        | 500 |    |   |   |
| 67940 | 1.1/8-1.1/4   |        | 35     |        |        | 65     | 10     | 550 |    |   |   |
| 67961 | 1.3/16-1.5/16 | 300    |        |        | 36     |        |        |     |    |   |   |
| 67968 | 1.3/8-1.1/2   |        | 36     | 70     |        | 70     |        | 650 |    |   |   |
| 67946 | 1.7/16-1.5/8  | 320    |        |        | 42     | 80     | 12     | 850 | 1  |   |   |

DIN 3110

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V




B Cromado aeroespacial / Aeraspacial chrome plating / Chromée aérospatiale / Verchromt aeraspaciaal / Cromate satinato / Cromado fosco aeroespacial / Матовый хром

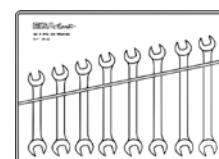
A Cromado pulido espejo / Mirror polished chrome plating / Polie chromée / Verchromt geschliffen / Cromate lucido / Cromado pulido / Полированный хром




## ■ SET

## ■ MM

| COD.  | PCS. |  | COD. PCS.                                                                          | (mm)                                                                           |
|-------|------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 69248 | 6    | 90052                                                                             | 61701, 61702, 61703, 61704, 61705, 61706                                           | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17                                           |
| 69249 | 8    | 90053                                                                             | 61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708                             | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22                             |
| 69250 | 10   | 90054                                                                             | 61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708, 61709, 61710               | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26               |
| 69251 | B    |                                                                                   | 61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708, 61709, 61710, 61711, 61713 | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26, 25-28, 30-32 |
| 69795 | 12   | 90055                                                                             | 61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708, 61709, 61652, 61711, 61713 | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-27, 25-28, 30-32 |



## ■ INCH

| COD.  | PCS. |  | COD. PCS.                                                                          | (inch)                                                                                                                        |
|-------|------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 69310 | 6    | 90052                                                                             | 60302, 60303, 60304, 60305, 60306, 60310                                           | 3/8-7/16, 1/2-9/16, 9/16-5/8, 19/32-11/16, 5/8-11/16, 13/16-7/8                                                               |
| 69311 | 8    | 90053                                                                             | 60302, 60303, 60304, 60305, 60306, 60310, 60309, 60311                             | 3/8-7/16, 1/2-9/16, 9/16-5/8, 19/32-11/16, 5/8-11/16, 3/4-7/8, 13/16-7/8, 15/16-1                                             |
| 69312 | A    | 90054                                                                             | 60300, 60301, 60302, 60303, 60304, 60306, 60310, 60311, 60312, 60314               | 1/4-5/16, 5/16-3/8, 3/8-7/16, 1/2-9/16, 9/16-5/8, 5/8-11/16, 13/16-7/8, 15/16-1, 1-1.1/8, 1.1/16-1.1/4                        |
| 69313 | 12   | 90055                                                                             | 60300, 60301, 60302, 60303, 60304, 60306, 60310, 60311, 60312, 60313, 60314, 60309 | 1/4-5/16, 5/16-3/8, 3/8-7/16, 1/2-9/16, 9/16-5/8, 5/8-11/16, 3/4-7/8, 13/16-7/8, 15/16-1, 1-1.1/8, 1.1/16-1.1/8, 1.1/16-1.1/4 |

## ■ MM

| COD.  | PCS. | COD. PCS.                                                                          | (mm)                                                                           |
|-------|------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 68453 | 6    | 61701, 61702, 61703, 61704, 61705, 61706                                           | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17                                           |
| 69446 | 8    | 61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708                             | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22                             |
| 68454 | B    | 61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708, 61709, 61710               | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26               |
| 69447 | 12   | 61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708, 61709, 61710, 61711, 61713 | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26, 25-28, 30-32 |

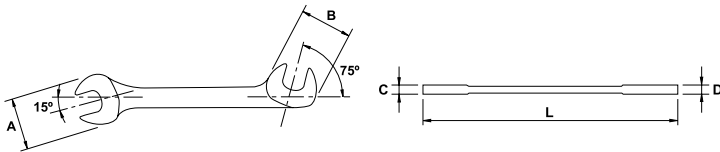


## ■ INCH

| COD.  | PCS. | COD. PCS.                                                                          | (inch)                                                                                                                                                           |
|-------|------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 68467 | 6    | 60302, 60303, 60304, 60305, 60306, 60310                                           | 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 19/32 - 11/16 - 5/8 - 11/16 - 13/16 - 7/8                                                                                        |
| 69452 | A    | 60301, 60302, 60303, 60304, 60305, 60306, 60308, 60310                             | 5/16 - 3/8 - 3/8 - 7/16 - 1/2 - 9/16 - 9/16 - 5/8 - 19/32 - 11/16 - 5/8 - 11/16 - 3/4 - 7/8 - 13/16 - 7/8                                                        |
| 69453 | 12   | 60300, 60301, 60302, 60303, 60304, 60306, 60309, 60310, 60311, 60312, 60313, 60314 | 1/4 - 5/16 - 5/16 - 3/8 - 3/8 - 7/16 - 1/2 - 9/16 - 9/16 - 5/8 - 5/8 - 11/16 - 3/4 - 7/8 - 13/16 - 7/8 - 15/16 - 1 - 1 - 1.1/8 - 1.1/16 - 1.1/8 - 1.1/16 - 1.1/4 |

B Cromado aeroespacial / Aerospaceal chrome plating / Chromée aérospatiale / Verchromt aerospaceal / Cromate satinato / Cromado fosco aeroespacial / Матовый хром  
 A Cromado pulido espejo / Mirror polished chrome plating / Polie chromée / Verchromt geschliffen / Cromate lucido / Cromado pulido / Полированный хром

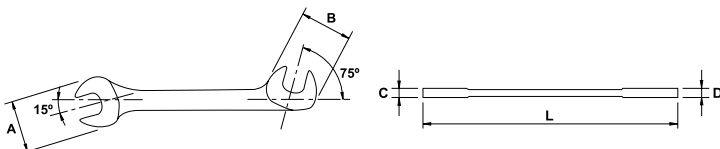
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**LLAVES FIJAS MICROMECAÑICAS A 15° Y 75° / 15° AND 75° MICROMECH OPEN END WRENCHES / CLÉS À FOURCHES MICROMÉCANIQUES À 15° ET 75° / DOPPELMAULSCHLÜSSEL ELEKTRIKER 15° UND 75° MAULEINSTELLUNG / CHIAVI FISSE MICRO MECCANICHE A 15° Y 75° / CHAVES DE BOCAS MICROMECAÑICAS DE 150 E 750 / РОЖКОВЫЙ КЛЮЧ ДЛЯ МИКРОМЕХАНИКИ 15° И 75°**
**MM**


| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g  |    |   |   |
|-------|-------|--------|--------|--------|--------|--------|----|----|---|---|
| 58520 | 3,2mm | 70     | 10     | 10     | 2.4    | 2.4    | 6  | 20 | ● | B |
| 58521 | 4mm   |        |        |        |        |        |    |    |   |   |
| 58522 | 4,5mm |        |        |        |        |        |    |    |   |   |
| 58523 | 5mm   | 75     | 13     | 13     | 3      | 3      | 8  | 20 | ● | B |
| 58524 | 5,5mm |        |        |        |        |        |    |    |   |   |
| 58525 | 6mm   |        |        |        |        |        |    |    |   |   |
| 58526 | 7mm   | 80     | 15     | 15     | 2.7    | 2.7    | 10 | 20 | ● | B |
| 58527 | 8mm   |        |        |        |        |        |    |    |   |   |
| 58528 | 9mm   |        |        |        |        |        |    |    |   |   |
| 58529 | 10mm  | 90     | 19     | 19     | 3      | 3      | 16 | 20 | ● | B |
| 58530 | 11mm  |        |        |        |        |        |    |    |   |   |
| 58531 | 12mm  |        |        |        |        |        |    |    |   |   |
| 58532 | 13mm  | 120    | 27     | 27     | 3.5    | 3.5    | 36 | 10 | ● | B |
| 58533 | 14mm  |        |        |        |        |        |    |    |   |   |
| 58534 | 15mm  |        |        |        |        |        |    |    |   |   |
| 58535 | 16mm  | 139.4  | 33     | 33     | 5      | 5      | 68 | 10 | ● | B |
| 58536 | 17mm  |        |        |        |        |        |    |    |   |   |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**INCH**




| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g  |    |   |   |
|-------|---------|--------|--------|--------|--------|--------|----|----|---|---|
| 58550 | 1/8     | 70     | 10     | 10     | 2.4    | 2.4    | 6  | 20 | ● | B |
| 58537 | 5/32    |        |        |        |        |        |    |    |   |   |
| 58538 | 3/16    |        |        |        |        |        |    |    |   |   |
| 58539 | 7/32    | 75     | 13     | 13     | 3      | 3      | 8  | 20 | ● | B |
| 58540 | 1/4     |        |        |        |        |        |    |    |   |   |
| 58541 | 9/32    |        |        |        |        |        |    |    |   |   |
| 58542 | 5/16    | 80     | 15     | 15     | 2.7    | 2.7    | 10 | 20 | ● | B |
| 58543 | 11/32   |        |        |        |        |        |    |    |   |   |
| 58544 | 3/8     |        |        |        |        |        |    |    |   |   |
| 58545 | 7/16    | 90     | 19     | 19     | 3      | 3      | 16 | 20 | ● | B |
| 58546 | 1/2     |        |        |        |        |        |    |    |   |   |
| 58547 | 9/16    |        |        |        |        |        |    |    |   |   |
| 58548 | 5/8     | 120    | 27     | 27     | 3.5    | 3.5    | 36 | 10 | ● | B |
| 58549 | 11/16   |        |        |        |        |        |    |    |   |   |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

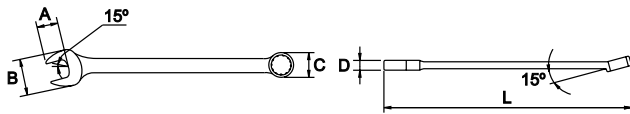
**B** Cromado aeroespacial / Aerspatial chrome plating / Chromée aérospatiale / Verchromt aerspatiale / Cromate satinata / Cromado fosco aeroespacial / Матовый хром





## SET

| COD.                                                | PCS.                                                                        |  |  |
|-----------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>51651</b>                                        | 11                                                                          | 51071                                                                             | 0,6                                                                               |
| PCS. <b>Composición / Composition / Composition</b> |                                                                             |                                                                                   |                                                                                   |
| 11                                                  | 58537, 58538, 58539, 58540, 58541, 58542, 58543, 58544, 58545, 58546, 58547 |                                                                                   | 5/32"-3/16"-7/32"-1/4"-9/32"-5/16"-11/32"-3/8"-7/16"-1/2"-9/16"                   |


**LLAVES COMBINADAS / COMBINATION WRENCHES / CLÉS MIXTES / RINGGABELSCHLÜSSEL / CHIAVI COMBINATE / CHAVES BOCA E LUNETA / КОМБИНИРОВАННЫЕ КЛЮЧИ**

## MM







| COD.         |  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |  |  |  |
|--------------|-----------------------------------------------------------------------------------|--------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>63965</b> | 3,2                                                                               | 70     |        | 11     | 10     |        | 8,0                                                                               |                                                                                   |                                                                                    |
| <b>63966</b> | 4                                                                                 | 65     | 3,7    | 8,5    | 8,0    |        | 9,0                                                                               |                                                                                   |                                                                                    |
| <b>67880</b> | 4,5                                                                               | 70     | 4,0    | 9,0    | 8,5    | 3,0    | 10                                                                                |                                                                                   |                                                                                    |
| <b>63967</b> | 5                                                                                 | 80     | 4,5    | 11     | 9,0    |        |                                                                                   |                                                                                   |                                                                                    |
| <b>67881</b> | 5,5                                                                               |        |        | 14     | 11     |        | 16                                                                                |                                                                                   |                                                                                    |
| <b>61725</b> | 6                                                                                 | 100    | 7,0    |        |        | 3,3    |                                                                                   |                                                                                   |                                                                                    |
| <b>61726</b> | 7                                                                                 | 110    |        | 16     | 12     | 3,6    | 20                                                                                |                                                                                   |                                                                                    |
| <b>61727</b> | 8                                                                                 | 120    |        | 18     | 13     | 4,5    | 25                                                                                |                                                                                   |                                                                                    |
| <b>61728</b> | 9                                                                                 | 130    | 10     | 19     | 15     | 5,0    | 30                                                                                |                                                                                   |                                                                                    |
| <b>61729</b> | 10                                                                                | 140    | 11     | 21     | 17     |        | 38                                                                                |                                                                                   |                                                                                    |
| <b>61730</b> | 11                                                                                |        | 12     | 23     | 18     | 5,5    | 45                                                                                | 10                                                                                |                                                                                    |
| <b>61731</b> | 12                                                                                | 160    | 14     | 25     | 19     |        | 52                                                                                |                                                                                   |                                                                                    |
| <b>61732</b> | 13                                                                                |        | 15     | 27     | 20     |        | 70                                                                                |                                                                                   |                                                                                    |
| <b>61733</b> | 14                                                                                | 180    |        | 29     | 21     | 6,5    | 75                                                                                |                                                                                   |                                                                                    |
| <b>61734</b> | 15                                                                                | 190    | 16     | 32     | 23     |        | 90                                                                                |                                                                                   |                                                                                    |
| <b>61735</b> | 16                                                                                | 200    |        | 33     | 24     |        |                                                                                   |                                                                                   |                                                                                    |
| <b>61736</b> | 17                                                                                |        | 18     | 35     | 26     | 7,5    | 110                                                                               |                                                                                   |                                                                                    |
| <b>61737</b> | 18                                                                                | 210    |        | 38     |        |        | 135                                                                               |                                                                                   |                                                                                    |
| <b>61738</b> | 19                                                                                | 230    | 21     | 39     | 29     |        | 160                                                                               |                                                                                   |                                                                                    |
| <b>61739</b> | 20                                                                                | 240    | 23     | 41     | 30     |        | 180                                                                               |                                                                                   |                                                                                    |
| <b>61740</b> | 21                                                                                | 250    | 24     | 46     | 31     | 8,0    | 210                                                                               |                                                                                   |                                                                                    |
| <b>61741</b> | 22                                                                                | 260    | 25     | 48     | 33     |        | 220                                                                               |                                                                                   |                                                                                    |
| <b>61742</b> | 23                                                                                |        |        |        |        |        | 260                                                                               |                                                                                   |                                                                                    |
| <b>61743</b> | 24                                                                                | 280    | 26     | 49     | 35     |        | 280                                                                               |                                                                                   |                                                                                    |
| <b>61744</b> | 25                                                                                |        |        | 50     | 36     |        | 290                                                                               |                                                                                   |                                                                                    |
| <b>61745</b> | 26                                                                                | 300    | 29     |        | 37     | 9,0    | 360                                                                               |                                                                                   |                                                                                    |
| <b>61746</b> | 27                                                                                | 330    |        | 55     | 41     | 10     | 420                                                                               |                                                                                   |                                                                                    |
| <b>61747</b> | 28                                                                                |        | 32     | 60     | 42     |        | 450                                                                               | 5                                                                                 |                                                                                    |
| <b>61748</b> | 29                                                                                |        |        |        |        | 11     | 500                                                                               |                                                                                   |                                                                                    |
| <b>61749</b> | 30                                                                                | 340    | 33     | 65     | 43     |        | 550                                                                               |                                                                                   |                                                                                    |
| <b>62730</b> | 31                                                                                |        | 32,5   | 60,5   | 43,5   | 10,2   | 488                                                                               |                                                                                   |                                                                                    |
| <b>61750</b> | 32                                                                                | 350    |        | 65     | 47     | 11     |                                                                                   |                                                                                   |                                                                                    |
| <b>57062</b> | 33                                                                                | 360    | 34     | 70     | 49     |        | 600                                                                               |                                                                                   |                                                                                    |
| <b>60951</b> | 34                                                                                | 385    |        | 75     | 52     | 14     |                                                                                   |                                                                                   |                                                                                    |
| <b>57063</b> | 35                                                                                | 380    | 35     |        |        |        | 650                                                                               |                                                                                   |                                                                                    |
| <b>60952</b> | 36                                                                                | 405    |        | 80     | 55     | 15     | 900                                                                               |                                                                                   |                                                                                    |
| <b>57064</b> | 37                                                                                | 400    | 36     | 75     | 60     | 14     | 800                                                                               |                                                                                   |                                                                                    |
| <b>60953</b> | 38                                                                                | 410    | 38     | 83     | 58     | 16     | 1000                                                                              | 1                                                                                 | -                                                                                  |
| <b>67895</b> | 40                                                                                |        |        |        |        |        |                                                                                   |                                                                                   |                                                                                    |
| <b>60954</b> | 41                                                                                | 450    | 41     | 88     | 63     | 17     | 1300                                                                              |                                                                                   |                                                                                    |
| <b>57065</b> | 42                                                                                | 440    | 42     | 85     | 60     |        | 1200                                                                              |                                                                                   |                                                                                    |
| <b>57066</b> | 44                                                                                | 500    | 46     | 90     | 65     | 16     | 1500                                                                              |                                                                                   |                                                                                    |



B

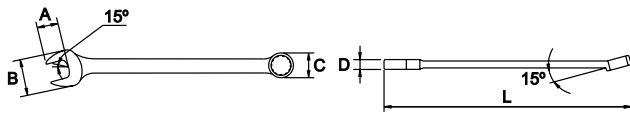
B Cromado aeroespacial / Aerspatial chrome plating / Chromée aérospatiale / Verchromt aerspatial / Cromate satinato / Cromado fosco aeroespacial / Матовый хром





| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 60955 | 46                                                                                | 500    | 46     | 96     | 70     | 18     | 1800                                                                              |                                                                                   |                                                                                    |
| 57067 | 48                                                                                | 530    | 48     | 100    | 75     |        | 2200                                                                              |                                                                                   |                                                                                    |
| 60956 | 50                                                                                | 535    | 50     | 105    | 76     | 19     | 2300                                                                              | 1                                                                                 | -                                                                                  |
| 67882 | 55                                                                                | 600    | 60     |        | 80     |        | 3000                                                                              |                                                                                   | B                                                                                  |
| 67883 | 60                                                                                | 650    | 65     | 115    | 90     | 21     | 3550                                                                              |                                                                                   |                                                                                    |
| 67884 | 65                                                                                | 700    | 70     | 125    | 95     | 23     | 3800                                                                              |                                                                                   |                                                                                    |

DIN 3113





**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**INCH**


| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 58169 | 1/8                                                                               | 70     | 3,7    | 11     |        |        |                                                                                   |                                                                                   |                                                                                    |
| 67953 | 3/16                                                                              | 95     | 5,0    |        |        | 3,0    | 8,0                                                                               |                                                                                   |                                                                                    |
| 67954 | 7/32                                                                              |        |        | 14     | 9,0    |        |                                                                                   |                                                                                   |                                                                                    |
| 61653 | 15/64                                                                             | 100    | 6,5    |        |        | 3,8    | 16                                                                                |                                                                                   |                                                                                    |
| 60340 | 1/4                                                                               |        |        |        |        |        |                                                                                   |                                                                                   |                                                                                    |
| 67885 | 9/32                                                                              | 110    | 7      | 20     | 12,5   | 4      | 17                                                                                |                                                                                   |                                                                                    |
| 60341 | 5/16                                                                              | 120    | 9,0    | 17     | 12     | 4,5    | 25                                                                                |                                                                                   |                                                                                    |
| 67878 | 11/32                                                                             | 130    | 10     | 19     | 15     | 5,5    | 28                                                                                |                                                                                   |                                                                                    |
| 60342 | 3/8                                                                               | 140    | 11     | 26     | 16     |        | 38                                                                                |                                                                                   |                                                                                    |
| 58460 | 13/32                                                                             | 142,5  | 10     | 27     | 17     | 5      |                                                                                   |                                                                                   |                                                                                    |
| 60343 | 7/16                                                                              | 170    | 14     | 26     |        | 6,0    | 45                                                                                |                                                                                   |                                                                                    |
| 58461 | 15/32                                                                             | 162,5  | 12     | 32     | 20     | 5,5    | 58                                                                                |                                                                                   |                                                                                    |
| 60344 | 1/2                                                                               | 180    | 15     | 29     | 21     | 6,5    | 70                                                                                | 10                                                                                |                                                                                    |
| 58462 | 17/32                                                                             | 182,5  | 14     | 35     | 23     |        | 76                                                                                |                                                                                   |                                                                                    |
| 60345 | 9/16                                                                              | 180    | 16     | 29     | 21     | 7,0    | 75                                                                                |                                                                                   |                                                                                    |
| 60346 | 19/32                                                                             | 190    |        | 31     | 23     | 7,5    | 90                                                                                |                                                                                   |                                                                                    |
| 60347 | 5/8                                                                               | 200    | 17     | 32     | 25     |        |                                                                                   |                                                                                   |                                                                                    |
| 58463 | 21/32                                                                             | 212,5  |        | 42     | 27     | 8      | 126                                                                               |                                                                                   |                                                                                    |
| 60348 | 11/16                                                                             | 220    | 19     | 37     | 28     | 8,0    | 130                                                                               |                                                                                   |                                                                                    |
| 58464 | 23/32                                                                             | 222,5  | 18     | 44     | 28,5   | 9      | 138                                                                               |                                                                                   | A                                                                                  |
| 60349 | 3/4                                                                               | 220    | 20     | 37     | 28     |        | 160                                                                               |                                                                                   |                                                                                    |
| 60350 | 25/32                                                                             | 240    | 22     | 41     | 31     | 8,0    | 180                                                                               |                                                                                   |                                                                                    |
| 60351 | 13/16                                                                             | 250    | 23     | 43     | 32     | 8,5    | 210                                                                               |                                                                                   |                                                                                    |
| 58465 | 27/32                                                                             | 252,5  | 21     | 50     | 33,5   | 10     |                                                                                   |                                                                                   |                                                                                    |
| 60352 | 7/8                                                                               | 280    | 24     | 48     | 35     | 8,5    | 220                                                                               | 5                                                                                 |                                                                                    |
| 58466 | 29/32                                                                             | 272,5  | 23     | 56     | 38     | 12     | 244                                                                               | 10                                                                                |                                                                                    |
| 60353 | 15/16                                                                             | 290    | 26     | 50     | 36     | 8,5    | 280                                                                               | 5                                                                                 |                                                                                    |
| 58467 | 31/32                                                                             | 292,5  | 25     | 58     | 40     | 12     | 321                                                                               | 10                                                                                |                                                                                    |
| 60354 | 1                                                                                 | 290    | 27     | 50     | 38     |        | 300                                                                               |                                                                                   |                                                                                    |
| 60355 | 1.1/16                                                                            | 310    | 29     | 55     | 39     | 9,0    | 420                                                                               |                                                                                   |                                                                                    |
| 60356 | 1.1/8                                                                             | 360    | 33     |        | 42     | 10     | 450                                                                               | 5                                                                                 |                                                                                    |
| 60357 | 1.3/16                                                                            |        | 60     |        | 43     |        | 500                                                                               |                                                                                   |                                                                                    |
| 60358 | 1.1/4                                                                             | 390    | 34     |        | 45     |        | 600                                                                               |                                                                                   |                                                                                    |
| 60957 | 1.5/16                                                                            | 380    |        | 65     | 51     | 13     |                                                                                   |                                                                                   |                                                                                    |
| 60958 | 1.3/8                                                                             | 405    | 36     | 80     | 55     | 15     | 900                                                                               |                                                                                   |                                                                                    |
| 60961 | 1.7/16                                                                            |        |        |        |        |        |                                                                                   |                                                                                   |                                                                                    |
| 60959 | 1.1/2                                                                             | 407    | 38     | 83     | 58     | 16     | 1000                                                                              | 1                                                                                 | -                                                                                  |
| 67840 | 1.9/16                                                                            | 410    | 39     | 80     | 60     |        |                                                                                   |                                                                                   |                                                                                    |
| 60962 | 1.5/8                                                                             | 446    | 41     | 88     | 63     | 17     | 1300                                                                              |                                                                                   |                                                                                    |



| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 67841 | 1.11/16                                                                           | 450    | 41     | 90     | 65     | 17     | 1300                                                                              |                                                                                   |                                                                                    |
| 60897 | 1.3/4                                                                             |        |        |        |        |        |                                                                                   |                                                                                   |                                                                                    |
| 60898 | 1.13/16                                                                           | 500    | 46     | 96     | 70     | 18     | 1800                                                                              |                                                                                   |                                                                                    |
| 60899 | 1.7/8                                                                             |        |        |        |        |        |                                                                                   |                                                                                   |                                                                                    |
| 67842 | 1.15/16                                                                           | 550    |        |        | 75     |        |                                                                                   |                                                                                   |                                                                                    |
| 60960 | 2                                                                                 | 535    | 50     |        | 76     | 19     | 2300                                                                              | 1                                                                                 | - A                                                                                |
| 60905 | 2.3/16                                                                            |        | 105    |        |        |        | 2200                                                                              |                                                                                   |                                                                                    |
| 61099 | 2.1/4                                                                             | 600    | 55     |        | 80     | 20     | 2800                                                                              |                                                                                   |                                                                                    |
| 67955 | 2.3/8                                                                             | 650    | 60     | 115    | 90     | 21     | 2900                                                                              |                                                                                   |                                                                                    |
| 67956 | 2.1/2                                                                             | 700    | 65     | 125    | 95     | 23     | 2300                                                                              |                                                                                   |                                                                                    |


DIN 3113

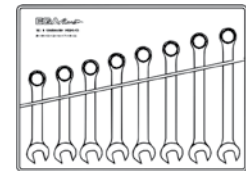
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V


SET

MM

| COD.  | PCS. |  | COD. PCS.                                                                                                                                                                            | (mm)                                                                                               |
|-------|------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 69262 | 6    | 90080                                                                             | 61727, 61729, 61731, 61733, 61736, 61738                                                                                                                                             | 8, 10, 12, 14, 17, 19                                                                              |
| 69263 | 8    | 90081                                                                             | 61727, 61729, 61731, 61732, 61733, 61736, 61738, 61741                                                                                                                               | 8, 10, 12, 13, 14, 17, 19, 22                                                                      |
| 69277 | 10   | 90082                                                                             | 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61736, 61738, 61741                                                                                                                 | 8, 9, 10, 11, 12, 13, 14, 17, 19, 22                                                               |
| 69278 | 12   | 90083                                                                             | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736                                                                                                   | 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17                                                         |
| 68514 | 13   | 90060                                                                             | 61725, 61727, 61729, 61730, 61732, 61733, 61734, 61736, 61738, 61739, 61741, 61743, 61744                                                                                            | 6, 8, 10, 11, 13, 14, 15, 17, 19, 20, 22, 24, 25                                                   |
| 69265 | 14   | 90063                                                                             | 61729, 61730, 61731, 61733, 61735, 61736, 61738, 61739, 61741, 61743, 61744, 61746, 61747, 61750                                                                                     | 10, 11, 12, 14, 16, 17, 19, 20, 22, 24, 25, 27, 28, 32                                             |
| 69796 | B    |                                                                                   | 61729, 61730, 61731, 61733, 61735, 61736, 61738, 61739, 61741, 61743, 61744, 61746, 61749, 61750                                                                                     | 10, 11, 12, 14, 16, 17, 19, 20, 22, 24, 25, 27, 30, 32                                             |
| 68522 | 15   | 90061                                                                             | 61729, 61730, 61732, 61733, 61734, 61736, 61738, 61739, 61741, 61743, 61746, 61748, 61749, 61750, 61744                                                                              | 10, 11, 13, 14, 15, 17, 19, 20, 22, 24, 25, 27, 29, 30, 32                                         |
| 69279 | 17   | 90064                                                                             | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736, 61737, 61738, 61739, 61740, 61741                                                                | 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22                                     |
| 69556 |      |                                                                                   | 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736, 61737, 61738, 61739, 61740, 61741, 61743                                                                | 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24                                    |
| 69280 | 26   | 90065                                                                             | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736, 61737, 61738, 61739, 61740, 61741, 61742, 61743, 61744, 61745, 61746, 61747, 61748, 61749, 61750 | 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32 |



INCH

| COD.  | PCS. |  | COD. PCS.                                                                                                             | (inch)                                                                                              |
|-------|------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| 69330 | 6    | 90080                                                                               | 60342, 60343, 60344, 60345, 60347, 60349                                                                              | 3/8, 7/16, 1/2, 9/16, 5/8, 3/4                                                                      |
| 69331 | 8    | 90081                                                                               | 60341, 60342, 60343, 60344, 60345, 60347, 60348, 60349                                                                | 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4                                                         |
| 69332 | 10   | 90082                                                                               | 60342, 60343, 60344, 60345, 60347, 60348, 60349, 60351, 60352, 60354                                                  | 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 1                                                |
| 69333 | 12   | 90083                                                                               | 60341, 60342, 60343, 60344, 60345, 60347, 60348, 60349, 60351, 60352, 60353, 60354                                    | 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1                                   |
| 68502 | A    | 90060                                                                               | 60340, 60341, 60342, 60343, 60344, 60345, 60347, 60348, 60349, 60351, 60352, 60353, 60354                             | 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1                              |
| 69334 | 14   | 90063                                                                               | 60342, 60343, 60344, 60345, 60347, 60348, 60349, 60351, 60352, 60353, 60354, 60355, 60356, 60358                      | 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1.1/16, 1.1/8, 1.1/4                   |
| 68505 | 15   | 90061                                                                               | 60342, 60343, 60344, 60345, 60347, 60348, 60349, 60351, 60352, 60353, 60354, 60355, 60356, 60357, 60358               | 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1.1/16, 1.1/8, 1.3/16, 1.1/4           |
| 69335 | 17   | 90064                                                                               | 60340, 60341, 60342, 60343, 60344, 60345, 60346, 60347, 60348, 60349, 60350, 60351, 60352, 60353, 60354, 60355, 60356 | 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 25/32, 13/16, 7/8, 15/16, 1, 1.1/16, 1.1/8 |

A Cromado pulido espejo / Mirror polished chrome plating / Polie chromée / Verchromt geschliffen / Cromate lucide / Cromado pulido / Полированный хром

B Cromado aeroespacial / Aerospaceal chrome plating / Chromée aérospatiale / Verchromt aerospaceal / Cromate satinato / Cromado fosco aeroespacial / Матовый хром

Si no encuentra el artículo que necesita, consúltenos en [consulta@egamaster.com](mailto:consulta@egamaster.com) o en [www.egamaster.com](http://www.egamaster.com)  
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## ■ MM

| COD.  | PCS. | COD. PCS.                                                                          | (mm)                                       |
|-------|------|------------------------------------------------------------------------------------|--------------------------------------------|
| 68457 | 6    | 61727, 61729, 61731, 61733, 61736, 61738                                           | 8, 10, 12, 14, 17, 19                      |
| 69450 | 8    | 61727, 61728, 61729, 61730, 61731, 61733, 61736, 61738                             | 8, 9, 10, 11, 12, 14, 17, 19               |
| 68456 | B 10 | 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61736, 61738, 61741               | 8, 9, 10, 11, 12, 13, 14, 17, 19, 22       |
| 69451 | 12   | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736 | 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 |



## ■ INCH

| COD.  | PCS. | COD. PCS.                                                                          | (inch)                                                                       |
|-------|------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 68469 | 6    | 60342, 60343, 60344, 60345, 60347, 60349                                           | 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 3/4                                          |
| 69454 | 8    | 60341, 60342, 60343, 60344, 60345, 60347, 60348, 60349                             | 5/16 - 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16 - 3/4                           |
| 68470 | A 10 | 60342, 60343, 60344, 60345, 60347, 60348, 60349, 60351, 60352, 60354               | 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16 - 3/4 - 13/16 - 7/8 - 1                |
| 69455 | 12   | 60341, 60342, 60343, 60344, 60345, 60348, 60347, 60349, 60351, 60352, 60353, 60354 | 5/16 - 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16 - 3/4 - 13/16 - 7/8 - 15/16 - 1 |

## ■ EXPOSITORES / DISPLAYS / PRESENTOIRS / DISPLAY / ESPOSITORI / DISPLAY STAND / СТЕНДЫ

## ■ 165 PCS.

## ■ MM

| COD.  | PCS. | COD. PCS. | (mm)  |
|-------|------|-----------|-------|
| 55656 | B    |           | 165   |
|       | 20   | 61727     | 8 mm  |
|       |      | 61729     | 10 mm |
|       |      | 61730     | 11 mm |
|       |      | 61731     | 12 mm |
|       |      | 61732     | 13 mm |
|       | 15   | 61733     | 14 mm |
|       | 14   | 61734     | 15 mm |
|       | 13   | 61735     | 16 mm |
|       | 12   | 61736     | 17 mm |
|       | 11   | 61738     | 19 mm |



## ■ 162 PCS.

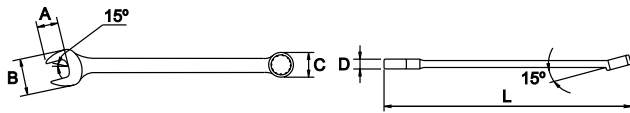
## ■ INCH





| COD.  | PCS. | COD. PCS. | (inch) |
|-------|------|-----------|--------|
| 55657 | A    |           | 162    |
|       | 20   | 60342     | 3/8"   |
|       |      | 60343     | 7/16"  |
|       |      | 60344     | 1/2"   |
|       |      | 60345     | 9/16"  |
|       | 17   | 60347     | 5/8"   |
|       | 15   | 60348     | 11/16" |
|       |      | 60349     | 3/4"   |
|       | 13   | 60351     | 13/16" |
|       | 12   | 60352     | 7/8"   |
|       | 10   | 60354     | 1"     |



**LLAVES COMBINADAS EXTRA LARGAS / EXTRA-LONG COMBINATION WRENCHES / CLÉS MIXTES EXTRA-LONGUES / RINGMAULSCHLÜSSEL EXTRA LANG / CHIAVE COMBINATA EXTRA LUNGHE / CHAVES COMBINADAS EXTRA-LARGAS / КЛЮЧ КОМБИНИРОВАННЫЙ УДЛИНЕННЫЙ**

MM



| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 56405 | 6                                                                                 | 130    |        | 14     | 11     | 5      | 18                                                                                |                                                                                   |                                                                                    |
| 56406 | 7                                                                                 | 140    | 7      | 15     | 12     | 5,5    | 20                                                                                |                                                                                   |                                                                                    |
| 56407 | 8                                                                                 | 150    |        | 18     | 14     | 6      | 30                                                                                |                                                                                   |                                                                                    |
| 56408 | 9                                                                                 | 160    | 10     | 20     | 15     | 6,5    | 35                                                                                |                                                                                   |                                                                                    |
| 56409 | 10                                                                                | 170    | 11     | 22     | 16     | 7      | 50                                                                                |                                                                                   |                                                                                    |
| 56410 | 11                                                                                | 180    | 12     | 24     | 18     | 7,5    | 55                                                                                |                                                                                   |                                                                                    |
| 56411 | 12                                                                                | 195    | 14     | 26     | 19     | 8      | 65                                                                                |                                                                                   |                                                                                    |
| 56412 | 13                                                                                | 210    | 15     | 27     | 21     | 8,5    | 95                                                                                |                                                                                   |                                                                                    |
| 56413 | 14                                                                                | 220    |        | 30     | 22     | 9,5    | 115                                                                               | 10                                                                                |                                                                                    |
| 56414 | 15                                                                                | 230    | 16     | 32     | 23     | 10     | 120                                                                               |                                                                                   |                                                                                    |
| 56415 | 16                                                                                | 240    |        | 34     | 24     | 11     | 160                                                                               |                                                                                   |                                                                                    |
| 56416 | 17                                                                                | 250    | 18     | 37     | 27     |        | 190                                                                               |                                                                                   |                                                                                    |
| 56417 | 18                                                                                | 270    |        | 38     | 28     | 12     | 195                                                                               |                                                                                   |                                                                                    |
| 56418 | 19                                                                                | 280    | 21     | 40     | 29     |        | 260                                                                               |                                                                                   | B                                                                                  |
| 56419 | 20                                                                                | 290    | 23     | 42     | 30     | 13     | 300                                                                               |                                                                                   |                                                                                    |
| 56420 | 21                                                                                | 300    | 24     | 43     |        |        | 320                                                                               |                                                                                   |                                                                                    |
| 56421 | 22                                                                                | 310    | 25     | 45     | 32     | 14     | 330                                                                               |                                                                                   |                                                                                    |
| 56422 | 23                                                                                | 330    |        | 46     | 34     | 15     | 380                                                                               |                                                                                   |                                                                                    |
| 56423 | 24                                                                                | 340    | 26     | 50     | 36     | 16     | 450                                                                               |                                                                                   |                                                                                    |
| 56424 | 25                                                                                | 350    |        | 53     | 37     | 17     |                                                                                   |                                                                                   |                                                                                    |
| 56425 | 26                                                                                | 370    | 29     | 54     | 38     |        | 530                                                                               | 5                                                                                 |                                                                                    |
| 56426 | 27                                                                                |        |        | 56     | 40     |        |                                                                                   |                                                                                   |                                                                                    |
| 56427 | 28                                                                                | 390    | 32     | 57     | 41     | 19     | 760                                                                               |                                                                                   |                                                                                    |
| 56428 | 29                                                                                | 410    |        | 59     | 43     |        |                                                                                   |                                                                                   |                                                                                    |
| 56429 | 30                                                                                | 420    | 33     | 60     | 44     | 20     | 820                                                                               |                                                                                   |                                                                                    |
| 56430 | 32                                                                                | 440    | 34     | 65     | 47     | 21     | 1000                                                                              |                                                                                   |                                                                                    |

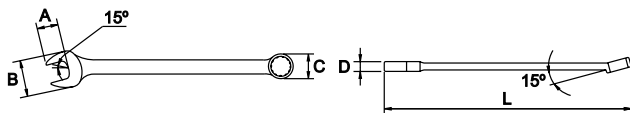
DIN 3113





**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



INCH



| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 56432 | 3/4                                                                                 | 280    | 19     | 40     | 29     | 8,5    | 260                                                                                 |                                                                                     |                                                                                      |
| 56433 | 13/16                                                                               | 300    | 21     | 43     | 32     | 9      | 320                                                                                 | 10                                                                                  |                                                                                      |
| 56434 | 7/8                                                                                 | 310    | 22     | 45     | 33     | 9,5    | 330                                                                                 |                                                                                     |                                                                                      |
| 56435 | 15/16                                                                               | 340    | 24     | 50     | 36     | 10     | 440                                                                                 |                                                                                     |                                                                                      |
| 56436 | 1                                                                                   | 350    | 25     | 53     | 37     | 11     | 530                                                                                 |                                                                                     | A                                                                                    |
| 56437 | 1.1/16                                                                              | 390    | 27     | 56     | 40     | 12     |                                                                                     | 5                                                                                   |                                                                                      |
| 56438 | 1.1/8                                                                               | 410    | 29     | 59     | 43     | 13     | 760                                                                                 |                                                                                     |                                                                                      |
| 56439 | 1.1/4                                                                               | 440    | 32     | 65     | 47     | 14     | 1000                                                                                |                                                                                     |                                                                                      |

DIN 3113

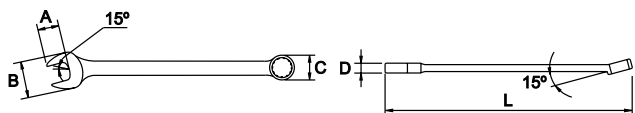
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

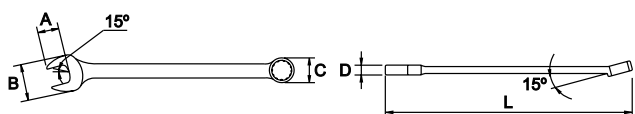


A Cromado pulido espejo / Mirror polished chrome plating / Polie chromée / Verchromt geschliffen / Cromate lucide / Cromado pulido / Полированный хром  
 B Cromado aeroespacial / Aerospaceal chrome plating / Chromée aérospatiale / Verchromt aerospaceal / Cromate satinare / Cromado fosco aeroespacial / Матовый хром

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**LLAVES COMBINADAS MAXI / MAXI COMBINATION WRENCHES / CLÉS MIXTES MAXI / MAXI RING-MAUL-SCHLÜSSEL / CHIAVI COMBINATE MAXI / CHAVAS COMBINADAS MAXI / КОМБИНИРОВАННЫЕ КЛЮЧИ МАКСИ**
**MM**


| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | Kg   |   |   |
|-------|-------|--------|--------|--------|--------|--------|------|---|---|
| 55300 | 70    |        |        |        |        |        |      |   |   |
| 55301 | 75    | 650    | 75     | 145    | 115    | 24     | 4,2  |   |   |
| 55302 | 80    | 700    | 85     | 160    | 120    | 26     | 5,4  |   |   |
| 55303 | 85    |        |        |        |        |        |      |   |   |
| 55304 | 90    |        |        |        |        |        |      |   |   |
| 55305 | 95    | 750    | 95     | 180    | 140    |        | 7,1  |   |   |
| 55306 | 100   | 800    | 105    | 195    | 150    | 27     | 8,4  | 1 | - |
| 55307 | 105   |        |        |        |        |        |      |   |   |
| 55308 | 110   | 850    | 115    | 210    | 165    |        | 9,8  |   |   |
| 55309 | 115   |        |        |        |        |        |      |   |   |
| 55310 | 120   |        |        |        |        | 28     |      |   |   |
| 55311 | 125   | 900    | 125    | 230    | 180    |        | 12,1 |   |   |


**INCH**


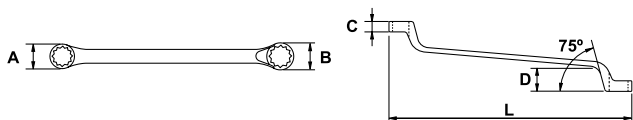
| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | Kg   |   |   |
|-------|---------|--------|--------|--------|--------|--------|------|---|---|
| 55322 | 2.3/4   |        |        |        |        |        |      |   |   |
| 55312 | 3       | 650    | 75     | 145    | 115    | 24     | 4,2  |   |   |
| 55313 | 3.1/4   | 700    | 85     | 160    | 120    | 26     | 5,3  |   |   |
| 55314 | 3.1/2   | 750    | 95     | 180    | 140    |        | 7,2  |   |   |
| 55315 | 3.3/4   | 800    | 105    | 195    | 150    | 27     | 8,4  | 1 | - |
| 55323 | 3.7/8   |        |        |        |        |        |      |   |   |
| 55316 | 4       |        |        |        |        |        |      |   |   |
| 55317 | 4.1/4   | 850    | 115    | 210    | 165    |        | 9,8  |   |   |
| 55318 | 4.1/2   |        |        |        |        | 28     |      |   |   |
| 55319 | 4.3/4   |        |        |        |        |        |      |   |   |
| 55320 | 5       | 900    | 125    | 230    | 180    |        | 12,1 |   |   |





**LLAVES ACODADAS / DOUBLE OFFSET RING WRENCHES / CLÉS POLYGAONALES CONTRE-COUDÉES / RINGSCHLÜSSEL / CHIAVI POLIGONALI / CHAVES LUNETAS / КЛЮЧИ ДВОЙНАЯ ИЗОГНУТАЯ ЗВЕЗДОЧКА**

MM



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g    |    |   |
|-------|-------|--------|--------|--------|--------|--------|------|----|---|
| 61774 | 5,5-6 | 165    |        |        | 4,5    | 19     | 45   |    |   |
| 61775 | 6-7   | 170    | 11     | 12     |        |        | 50   |    |   |
| 67843 | 7-8   |        | 13     | 16     | 6,5    |        | 55   |    |   |
| 61776 | 8-9   | 180    | 15     | 17     |        | 17     | 65   |    |   |
| 67844 | 8-10  |        |        |        | 7,0    |        | 55   |    |   |
| 61777 | 10-11 |        |        |        |        |        |      |    |   |
| 67845 | 10-12 | 200    | 17     | 19     | 7,5    |        | 85   |    |   |
| 67846 | 10-13 |        |        |        |        | 22     |      |    |   |
| 67847 | 11-13 |        | 19     | 20     |        |        | 90   |    |   |
| 67848 | 11-14 | 220    |        |        | 9,0    |        | 110  | 10 |   |
| 61778 | 12-13 |        |        |        |        |        | 120  |    |   |
| 67849 | 12-14 |        |        | 21     |        | 23     | 125  |    |   |
| 67850 | 13-14 |        |        |        |        |        | 140  |    |   |
| 61779 | 14-15 | 240    | 21     | 24     | 9,5    |        | 155  |    |   |
| 67851 | 13-16 |        |        |        | 10     |        | 160  |    |   |
| 67852 | 13-17 | 250    |        | 23     |        |        | 180  |    |   |
| 67853 | 14-17 |        |        |        | 11     | 25     | 200  |    |   |
| 61780 | 16-17 | 260    | 25     | 27     |        |        | 220  |    |   |
| 67854 | 16-18 |        | 27     |        | 12     |        | 270  |    |   |
| 67855 | 17-19 | 290    | 28     | 29     |        |        | 280  |    | B |
| 61781 | 18-19 |        |        |        |        | 27     | 360  |    |   |
| 67856 | 18-21 |        | 31     | 33     | 13     | 26     | 400  | 8  |   |
| 67857 | 19-22 | 320    | 32     | 34     |        | 29     | 410  |    |   |
| 61782 | 20-22 |        | 35     |        |        |        | 450  |    |   |
| 61783 | 21-23 |        | 36     | 39     |        | 30     | 490  |    |   |
| 67858 | 21-24 | 330    |        |        |        |        | 600  |    |   |
| 67859 | 22-24 |        | 37     | 42     | 15     | 31     | 700  |    |   |
| 61784 | 24-26 | 340    | 39     | 43     |        |        | 750  |    |   |
| 61788 | 24-27 |        |        |        |        | 32     | 900  |    |   |
| 61785 | 25-28 | 350    | 41     | 44     |        |        | 1100 |    |   |
| 61786 | 27-29 |        | 44     | 47     |        | 33     | 1600 | 5  |   |
| 67860 | 27-30 | 360    | 48     | 50     | 16     | 38     | 2000 |    |   |
| 61787 | 30-32 | 370    | 55     | 58     | 18     | 41     |      |    |   |
| 67861 | 32-36 | 400    | 70     | 75     | 19     | 49     |      |    |   |
| 67862 | 34-36 | 420    | 65     | 60     | 21     | 45     |      |    |   |
| 61789 | 36-41 | 550    | 70     | 75     | 20     | 50     |      |    |   |
| 67863 | 41-46 | 460    |        |        |        |        |      |    |   |
| 61790 | 46-50 | 550    |        |        |        |        |      |    |   |



DIN 838

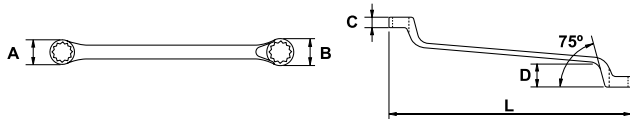
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

B Cromado aeroespacial / Aerspatial chrome plating / Chromée aérospatiale / Verchromt aerspatiale / Cromate satinato / Cromado fosco aeroespacial / Матовый хром

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**INCH**



| COD.  | inch         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   | Icons |
|-------|--------------|--------|--------|--------|--------|--------|-----|-------|
| 60380 | 1/4-5/16     | 170    | 10     | 12     | 5,5    | 18     | 50  |       |
| 67886 | 5/16-11/32   | 180    | 13     | 16     | 6,0    | 17     | 55  |       |
| 60381 | 5/16-3/8     | 185    | 14     | 17     | 5,5    | 20     | 65  |       |
| 60382 | 3/8-7/16     | 200    | 19     | 20     | 7,0    | 22     | 85  |       |
| 67887 | 7/16-1/2     | 220    | 21     | 23     | 9,0    | 24     | 100 |       |
| 60383 | 1/2-9/16     | 240    | 20     | 23     | 10     | 26     | 125 | 10    |
| 60384 | 9/16-5/8     | 260    | 24     | 25     | 10     | 27     | 130 |       |
| 60385 | 19/32-11/16  | 260    | 24     | 25     | 10     | 27     | 130 |       |
| 60386 | 5/8-11/16    | 290    | 26     | 27     | 13     | 30     | 140 |       |
| 67888 | 5/8-3/4      | 290    | 26     | 29     | 13     | 30     | 165 |       |
| 60387 | 11/16-3/4    | 320    | 31     | 30     | 14     | 31     | 180 |       |
| 67889 | 11/16-13/16  | 320    | 31     | 30     | 14     | 31     | 240 | ● A   |
| 60388 | 3/4-25/32    | 320    | 31     | 30     | 14     | 31     | 360 |       |
| 60389 | 3/4-7/8      | 320    | 31     | 30     | 14     | 31     | 380 |       |
| 67890 | 3/4-13/16    | 320    | 31     | 30     | 14     | 31     | 400 |       |
| 60390 | 13/16-7/8    | 330    | 34     | 37     | 15     | 31     | 440 |       |
| 67891 | 7/8-15/16    | 330    | 34     | 37     | 15     | 31     | 470 | 5     |
| 67892 | 7/8-1.1/16   | 340    | 38     | 41     | 15     | 35     | 600 |       |
| 60391 | 15/16-1      | 320    | 38     | 41     | 15     | 35     | 600 |       |
| 67893 | 1-1.1/16     | 340    | 43     | 48     | 16     | 36     | 650 |       |
| 60392 | 1-1.1/8      | 350    | 43     | 48     | 16     | 36     | 650 |       |
| 60393 | 1.1/16-1.1/8 | 360    | 44     | 55     | 16     | 36     | 650 |       |
| 60394 | 1.1/16-1.1/4 | 370    | 44     | 55     | 16     | 36     | 650 |       |
| 67894 | 1.1/8-1.1/4  | 370    | 44     | 55     | 16     | 36     | 650 |       |



DIN 838

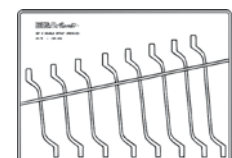
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**SET**


**MM**

| COD.  | PCS. | Icon  | COD. PCS.                                                                          | (mm)                                                                           |
|-------|------|-------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 69255 | 6    | 90056 | 61778, 61775, 61776, 61777, 61779, 61780                                           | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17                                           |
| 69239 | 8    | 90057 | 61778, 61775, 61776, 61777, 61779, 61780, 61781, 61782                             | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22                             |
| 69256 | 10   | 90058 | 61778, 61775, 61776, 61777, 61779, 61780, 61781, 61782, 61783, 61784               | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26               |
| 69257 | 12   | 90059 | 61778, 61782, 61783, 61784, 61785, 61787, 61775, 61776, 61777, 61779, 61780, 61781 | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26, 25-28, 30-32 |



**A** Cromado pulido espejo / Mirror polished chrome plating / Polie chromée / Verchromt geschliffen / Cromate lucide / Cromado polido / Полированный хром  
**B** Cromado aeroespacial / Aerospaceal chrome plating / Chromée aérospatiale / Verchromt aerospaceal / Cromate satinata / Cromado fosco aeroespacial / Матовый хром

**INCH**

| COD.         | PCS. |  | COD. PCS.                                                                          | (inch)                                                                                                                        |
|--------------|------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>69320</b> | 6    | 90056                                                                             | 60382, 60383, 60384, 60385, 60386, 60390                                           | 3/8-7/16, 1/2-9/16, 9/16-5/8, 19/32-11/16, 5/8-11/16, 13/16-7/8                                                               |
| <b>69321</b> | 8    | 90057                                                                             | 60382, 60383, 60384, 60385, 60386, 60390, 60389, 60391                             | 3/8-7/16, 1/2-9/16, 9/16-5/8, 19/32-11/16, 5/8-11/16, 3/4-7/8, 13/16-7/8, 15/16-1                                             |
| <b>69322</b> | A 10 | 90058                                                                             | 60380, 60381, 60382, 60383, 60384, 60386, 60390, 60391, 60392, 60394               | 1/4-5/16, 5/16-3/8, 3/8-7/16, 1/2-9/16, 9/16-5/8, 5/8-11/16, 13/16-7/8, 15/16-1, 1-1.1/8, 1.1/16-1.1/4                        |
| <b>69323</b> | 12   | 90059                                                                             | 60381, 60382, 60383, 60384, 60386, 60390, 60391, 60392, 60393, 60394, 60380, 60389 | 1/4-5/16, 5/16-3/8, 3/8-7/16, 1/2-9/16, 9/16-5/8, 5/8-11/16, 3/4-7/8, 13/16-7/8, 15/16-1, 1-1.1/8, 1.1/16-1.1/4, 1.1/16-1.1/4 |

**MM**

| COD.         | PCS. | COD. PCS.                                                            | (mm)                                                             |
|--------------|------|----------------------------------------------------------------------|------------------------------------------------------------------|
| <b>68463</b> | 6    | 61778, 61775, 61776, 61777, 61779, 61780                             | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17                             |
| <b>68464</b> | B 8  | 61778, 61775, 61776, 61777, 61779, 61780, 61781, 61782               | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22               |
| <b>68465</b> | 10   | 61780, 61782, 61776, 61784, 61775, 61777, 61779, 61781, 61783, 61778 | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26 |


**INCH**

| COD.         | PCS. | COD. PCS.                                                            | (inch)                                                                                                       |
|--------------|------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>68471</b> | 6    | 60382, 60383, 60384, 60385, 60386, 60390                             | 3/8-7/16 - 1/2-9/16 - 9/16-5/8 - 19/32-11/16 - 5/8-11/16 - 13/16-7/8                                         |
| <b>68472</b> | A 8  | 60382, 60383, 60384, 60385, 60386, 60390, 60389, 60391               | 3/8-7/16, 1/2-9/16 - 9/16-5/8 - 19/32-11/16 - 5/8-11/16 - 3/4-7/8 - 13/16-7/8 - 15/16-1                      |
| <b>68473</b> | 10   | 60380, 60381, 60382, 60383, 60384, 60386, 60387, 60389, 60390, 60391 | 1/4-5/16 - 5/16-3/8 - 3/8-7/16 - 1/2-9/16 - 9/16-5/8 - 5/8-11/16 - 11/16-3/4 - 3/4-7/8 - 13/16-7/8 - 15/16-1 |

**EXPOSITORES / DISPLAYS / PRESENTOIRS / DISPLAY / ESPOSITORI / DISPLAY STAND / СТЕНДЫ**
**165 PCS.**
**MM**

| COD.         | PCS. | COD. PCS. | (mm)     |
|--------------|------|-----------|----------|
| <b>55658</b> | B    |           | 165      |
|              | 20   | 61775     | 6-7 mm   |
|              |      | 61776     | 8-9 mm   |
|              |      | 61777     | 10-11 mm |
|              |      | 61778     | 12-13 mm |
|              |      | 61779     | 14-15 mm |
|              | 15   | 67852     | 13-17 mm |
|              | 14   | 61780     | 16-17 mm |
|              | 13   | 61781     | 18-19 mm |
|              | 12   | 67855     | 17-19 mm |
|              | 11   | 61782     | 20-21 mm |



■ 162 PCS.

■ INCH

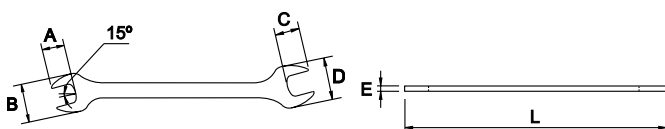
| COD.  |      | PCS.               |
|-------|------|--------------------|
| 55659 | A    | 162                |
|       | PCS. | COD. PCS.          |
|       |      | 60380 1/4-5/16"    |
|       |      | 60381 5/16-3/8"    |
| 20    |      | 60382 3/8-7/16"    |
|       |      | 60383 1/2-9/16"    |
|       |      | 60384 9/16-5/8"    |
| 14    |      | 60385 19/32-11/16" |
|       |      | 67888 5/8-3/4"     |
| 12    |      | 60387 11/16-3/4"   |
|       |      | 67889 11/16-13/16" |
| 10    |      | 60390 13/16-7/8"   |


**KIT DEMO 6 LLAVES / 6 SPANNER DEMO KIT / KIT DÉMO. 6 CLÉS / DEMOKIT 6 SCHLÜSSEL / KIT 6 CHIAVI DI DIMOSTRAZIONE / KIT DEMO 6 CHAVES / ДЕМО НАБОР 6 КЛЮЧЕЙ**

| COD.  |                                  | g   |
|-------|----------------------------------|-----|
| 69342 |                                  | 300 |
|       | COD. PCS.                        | mm  |
| 61727 | Aerospacial / <i>Aerospacial</i> |     |
| 38092 | INOX                             |     |
| 73062 | 1000V                            |     |
| 70172 | Cu-Be                            | 8   |
| 70684 | Al-Bron                          |     |
| 71669 | Titanio / <i>Titanium</i>        |     |


**LLAVES FIJAS EXTRAFINAS / SLIM OPEN-END WRENCHES / CLÉS À FOURCHE EXTRA-FINES / DOPPELMAULSCHLÜSSEL EXTRA DÜNN / CHIAVI FISSE EXTRAFINE / CHAVE DE BOCAS EXTRA-FINA / ТОНКИЕ РОЖКОВЫЕ КЛЮЧИ**

■ MM



| COD.  | AP mm   | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   |    |     |
|-------|---------|--------|--------|--------|--------|--------|--------|-----|----|-----|
| 56200 | 6 x 7   | 150    | 7      | 17     | 8      | 20     | 2,2    | 21  |    |     |
| 56201 | 8 x 9   | 175    | 9      | 21     | 10     | 25     | 2,6    | 40  |    |     |
| 56202 | 10 x 11 |        | 11     |        | 12     |        |        |     |    |     |
| 56203 | 12 x 13 | 210    | 13     | 29     | 14     | 34     | 3,6    | 85  |    |     |
| 56204 | 14 x 15 |        | 16     |        | 17     |        |        |     | 10 | ● B |
| 56205 | 16 x 17 |        | 18     |        | 18     |        |        |     |    |     |
| 56206 | 18 x 19 | 250    | 20     | 38     | 21     | 43     | 4,6    | 170 |    |     |
| 56207 | 20 x 22 |        |        |        |        |        |        |     |    |     |
| 56208 | 21 x 23 | 290    | 24     | 49     | 26     | 55     | 5,6    | 330 |    |     |
| 56209 | 22 x 24 |        |        |        |        |        |        |     |    |     |

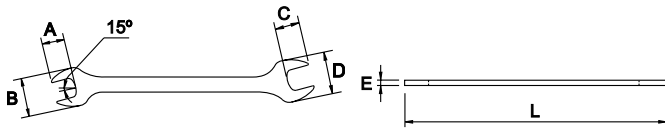






ISO 3318

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

A Cromado pulido espejo / *Mirror polished chrome plating* / Polie chromée / Verchromt geschliffen / Cromate lucide / Cromado polido / Полированный хром  
 B Cromado aeroespacial / *Aerospacial chrome plating* / Chromée aérospatiale / Verchromt aérospatiale / Cromate satinata / Cromado fosco aeroespacial / Матовый хром

**INCH**


| COD.         |  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) |  |  |  |
|--------------|-----------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>56210</b> | 1/4 x 5/16                                                                        | 150    | 7      | 17     | 8      | 20     | 2,2    | 21                                                                                |                                                                                   |                                                                                    |
| <b>56211</b> | 5/16 x 3/8                                                                        | 175    |        | 21     | 12     | 25     | 2,6    | 40                                                                                |                                                                                   |                                                                                    |
| <b>56212</b> | 3/8 x 7/16                                                                        |        | 11     |        |        |        |        |                                                                                   |                                                                                   |                                                                                    |
| <b>56213</b> | 7/16 x 1/2                                                                        |        | 13     |        | 14     |        |        |                                                                                   |                                                                                   |                                                                                    |
| <b>56214</b> | 1/2 x 9/16                                                                        | 210    | 16     | 29     | 17     | 34     | 3,6    | 85                                                                                | 10                                                                                | ● B                                                                                |
| <b>56215</b> | 5/8 x 11/16                                                                       |        | 18     |        | 18     |        |        | 170                                                                               |                                                                                   |                                                                                    |
| <b>56216</b> | 11/16 x 3/4                                                                       | 250    | 20     | 38     | 21     | 43     | 4,6    | 175                                                                               |                                                                                   |                                                                                    |
| <b>56217</b> | 13/16 x 7/8                                                                       | 290    | 24     | 49     | 26     | 55     | 5,6    | 330                                                                               |                                                                                   |                                                                                    |




ISO 3318


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

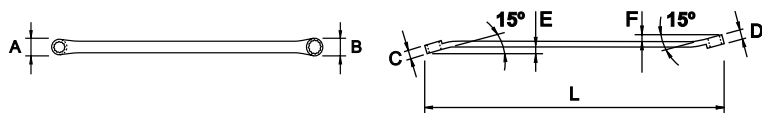
**SET**
**MM**





| COD.         | PCS. |  | COD. PCS.                                                            | (mm)                                                                                 |
|--------------|------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>56226</b> | 6    | 90056                                                                               | 56201, 56202, 56203, 56204, 56205, 56206                             | 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19                                   |
| <b>56227</b> | 10   | 90054                                                                               | 56200, 56201, 56202, 56203, 56204, 56205, 56206, 56207, 56208, 56209 | 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 22 x 24 |


**INCH**

| COD.         | PCS. |  | COD. PCS.                                              | (inch)                                                                                                   |
|--------------|------|-------------------------------------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>56228</b> | 6    | 90056                                                                               | 56212, 56213, 56214, 56215, 56216, 56217               | 3/8 x 7/16 - 7/16 x 1/2 - 1/2 x 9/16 - 5/8 x 11/16 - 11/16 x 3/4 - 13/16 x 7/8                           |
| <b>56229</b> | 8    | 90081                                                                               | 56210, 56211, 56212, 56213, 56214, 56215, 56216, 56217 | 1/4 x 5/16 - 5/16 x 3/8 - 3/8 x 7/16 - 7/16 x 1/2 - 1/2 x 9/16 - 5/8 x 11/16 - 11/16 x 3/4 - 13/16 x 7/8 |

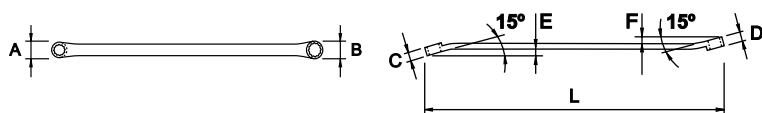
**B** Cromado aeroespacial / Aeroespacial chrome plating / Chromée aérospatiale / Verchromt aérospatiale / Cromate satinato / Cromado fosco aeroespacial / Матовый хром





**LLAVES ESTRELLA DE DOS BOCAS EXTRAFINAS COMPENSADAS A 15° / SLIM DOUBLE RING WRENCHES 15° BENT / CLÉS POLYGONALE DOUBLE EXTRA-FINES COMPENSÉES À 15° / DOPPEL-RINGSCHLÜSSEL DÜNN 15° GEKRÖPFT / CHIAVI POLIGONALI A DUE BOCHE A 15° / CHAVE DE LUNETA EXTRA-FINA DE 15° / ТОНКИЕ КЛЮЧИ ДВОЙНАЯ ЗВЕЗДОЧКА С ИЗГИБОМ НА 15°**
**MM**


| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 58904 | 6-7                                                                               | 205    | 11     | 14     | 6,5    | 8      | 4      | 4      | 50                                                                                |                                                                                   |                                                                                    |
| 58905 | 8-9                                                                               | 235    | 13     | 16     | 7,5    | 8      | 4,5    | 6      | 70                                                                                |                                                                                   |                                                                                    |
| 58906 | 10-11                                                                             | 290    | 16     | 19     | 8      | 8,5    | 5      | 6,5    | 120                                                                               |                                                                                   |                                                                                    |
| 58907 | 12-13                                                                             | 328    | 19     | 23     | 10     | 11     | 8      | 6      | 160                                                                               | 10                                                                                | ● B                                                                                |
| 58908 | 14-15                                                                             | 368    | 22     | 28     | 11     | 12     | 6      | 6      | 250                                                                               |                                                                                   |                                                                                    |
| 58909 | 16-17                                                                             | 388    | 24     | 28     | 12,5   | 14     | 5      | 5      | 300                                                                               |                                                                                   |                                                                                    |
| 58910 | 18-19                                                                             | 408    | 28     | 29     | 14     | 14,5   | 5      | 5      | 400                                                                               |                                                                                   |                                                                                    |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V


**INCH**


| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 56230 | 7/32-1/4                                                                            | 205    | 11     | 14     | 6,5    | 7,5    | 4,0    | 4,0    | 50                                                                                  |                                                                                     |                                                                                      |
| 56231 | 1/4-5/16                                                                            | 235    | 13     | 16     | 7,5    | 8,0    | 4,5    | 6,0    | 70                                                                                  |                                                                                     |                                                                                      |
| 56232 | 5/16-3/8                                                                            | 290    | 16     | 19     | 8,0    | 9,0    | 5,0    | 5,5    | 120                                                                                 |                                                                                     |                                                                                      |
| 56233 | 3/8-7/16                                                                            | 330    | 19     | 21     | 10     | 11     | 8,0    | 6,5    | 160                                                                                 | 10                                                                                  | ● B                                                                                  |
| 56234 | 1/2-9/16                                                                            | 390    | 25     | 27     | 13     | 14     | 5      | 5      | 300                                                                                 |                                                                                     |                                                                                      |
| 58911 | 5/8-11/16                                                                           | 410    | 27     | 29     | 14     | 15     | 5      | 5      | 400                                                                                 |                                                                                     |                                                                                      |

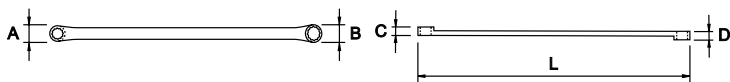

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**SET**
**INCH**

| COD.  | PCS. |  | COD. PCS. | (inch)                            |                                                  |
|-------|------|-------------------------------------------------------------------------------------|-----------|-----------------------------------|--------------------------------------------------|
| 56240 | B    | 5                                                                                   | 90056     | 56230, 56231, 56232, 56233, 56234 | 7/32-1/4, 1/4-5/16, 5/16-3/8, 3/8-7/16, 1/2-9/16 |



**LLAVES ESTRELLA PLANAS DE DOS BOCAS EXTRAFINAS / SLIM FLAT DOUBLE RING WRENCHES / CLÉS POLYGONALE PLATES DOUBLE EXTRA-FINES / DOPPEL-RINGSCHLÜSSEL DÜNN / CHIAVI POLIGONALI PIATTE A DUE BOCCHE EXTRAFINE / CHAVE DE LUNETA PLANA EXTRA-FINA / ТОНКИЕ ПЛОСКИЕ КЛЮЧИ ДВОЙНАЯ ЗВЕЗДОЧКА**
**INCH**


| COD.  | AF inch  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   |    |   |   |
|-------|----------|--------|--------|--------|--------|--------|-----|----|---|---|
| 56235 | 7/32-1/4 | 205    | 11     | 13     | 6.5    | 7.5    | 50  |    |   |   |
| 56236 | 1/4-5/16 |        |        |        |        |        |     |    |   |   |
| 56237 | 5/16-3/8 | 235    | 13     | 16     |        | 8.0    | 75  | 10 | ● | B |
| 56238 | 3/8-7/16 | 290    | 16     | 19     | 8.0    | 9.0    | 115 |    |   |   |
| 56239 | 1/2-9/16 | 330    | 20     | 23     | 9.5    | 11     | 160 |    |   |   |

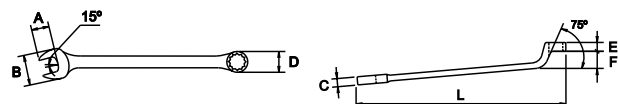
DIN 838

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**SET**
**INCH**

| COD.  | PCS. |       | COD. PCS.                         | (inch)                                           |
|-------|------|-------|-----------------------------------|--------------------------------------------------|
| 56241 | B 5  | 90056 | 56235, 56236, 56237, 56238, 56239 | 7/32-1/4, 1/4-5/16, 5/16-3/8, 3/8-7/16, 1/2-9/16 |


**COMBINADA ACODADA / COMBINATION DEEP OFFSET SPANNER / MIXTE CONTRE-COUDÉE / RINGMAULSCHLÜSSEL / CHIAVE COMBINATA A CONTROGOMITO / BOCA E LUNETA CONTRA-COTOVELO / КОМБИНИРОВАННЫЕ КЛЮЧИ С ГЛУБОКИМ ИЗГИБОМ**
**MM**


| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | g   |    |     |
|-------|-------|--------|--------|--------|--------|--------|--------|--------|-----|----|-----|
| 60740 | 6     | 115    | 9,5    | 17     | 3,7    | 12     | 6,0    | 5,0    | 17  |    |     |
| 60741 | 7     | 125    | 10     | 20     | 4,0    | 13     | 6,5    | 5,5    | 25  |    |     |
| 60742 | 8     | 140    | 11     |        |        | 14     | 7,5    | 6,0    | 23  |    |     |
| 60743 | 9     | 145    |        | 23     | 4,5    | 15     |        | 7,0    | 40  |    |     |
| 60744 | 10    | 150    | 12     |        |        | 16     | 8,0    | 7,5    | 43  |    |     |
| 60745 | 11    | 170    | 14     | 27     | 5,0    | 18     | 8,5    | 8,0    | 65  |    |     |
| 60746 | 12    | 185    | 15     | 30     | 5,5    | 20     | 9,0    | 8,5    |     |    |     |
| 60747 | 13    | 190    |        | 31     |        | 21     | 9,5    | 12     | 90  | 10 |     |
| 60748 | 14    | 200    | 16     | 31     |        | 22     |        | 16     | 95  |    |     |
| 60749 | 15    | 210    | 18     | 35     | 6,0    | 24     | 10     | 18     | 115 |    | ● B |
| 60750 | 16    | 230    | 19     | 38     | 8,0    | 26     |        | 20     | 130 |    |     |
| 60751 | 17    | 250    | 20     |        |        | 27     | 12     | 20     | 170 |    |     |
| 60752 | 18    | 260    | 21     | 40     | 8,5    | 29     |        | 21     | 175 |    |     |
| 60753 | 19    | 280    | 22     | 43     |        | 31     | 13     | 23     | 240 |    |     |
| 60755 | 21    | 290    |        | 46     |        | 33     |        | 24     | 250 |    |     |
| 60756 | 22    |        | 23     |        | 9,0    |        |        | 25     | 270 |    |     |
| 60757 | 23    | 300    | 24     | 47     |        | 34     |        | 25     | 320 | 5  |     |
| 60758 | 24    | 320    | 26     | 49     | 9,5    | 36     | 14     | 26     | 350 |    |     |
| 60759 | 25    | 340    | 28     | 50     |        | 38     |        | 30     | 380 |    |     |


**B** Cromado aeroespacial / Aerspatial chrome plating / Chromée aérospatiale / Verchromt aerspatiale / Cromate satinata / Cromado fosco aeroespacial / Матовый хром

| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | g   | Icons |
|-------|-------|--------|--------|--------|--------|--------|--------|--------|-----|-------|
| 60760 | 26    | 350    | 28     | 50     |        | 38     | 14     | 30     | 420 |       |
| 60761 | 27    | 360    | 29     | 55     | 10     | 39     |        | 30     | 410 |       |
| 60762 | 28    | 370    | 30     | 60     |        | 42     | 16     | 32     | 470 | 5 ● B |
| 60763 | 29    | 380    | 32     |        |        | 45     |        | 34     | 550 |       |
| 60764 | 30    | 400    | 33     | 65     | 11     | 46     | 18     |        | 600 |       |
| 60765 | 32    | 410    | 34     | 70     |        | 47     |        | 35     | 750 |       |

DIN 3113-B

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**SET**

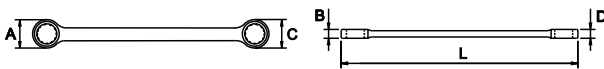
**MM**

| COD.  | PCS. | Icon  | COD. PCS.                                                                          | (mm)                                         |
|-------|------|-------|------------------------------------------------------------------------------------|----------------------------------------------|
| 68568 | 8    | 90081 | 60742, 60743, 60744, 60745, 60746, 60747, 60748, 60751                             | 8, 9, 10, 11, 12, 13, 14, 17                 |
| 68569 | 12   | 90083 | 60742, 60743, 60744, 60745, 60746, 60747, 60748, 60749, 60751, 60752, 60753, 60756 | 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19, 22 |



**ESTRELLA PLANA / DOUBLE ENDED FLAT RING SPANNER / POLYGONALE PLATE / DOPPELRINGSCHLÜSSEL / POLIGONALE DIRITTA / LUNETTA DIREITA / ДВОЙНАЯ ИЗГНУТАЯ ПЛОСКАЯ ЗВЕЗДОЧКА**

**MM**



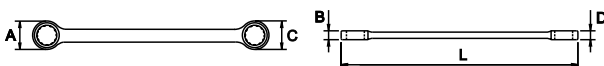
| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   | Icons |
|-------|-------|--------|--------|--------|--------|--------|-----|-------|
| 60770 | 6-7   | 120    | 11     | 5      | 12     | 5      | 25  |       |
| 60771 | 8-9   | 135    | 13     | 5,5    | 15     | 5,5    | 30  |       |
| 60772 | 10-11 | 150    | 16     | 6,4    | 17     | 6,4    | 50  |       |
| 60773 | 12-13 | 165    | 20     | 7      | 21     | 7      | 70  |       |
| 60774 | 14-15 | 185    | 21     | 8      | 24     | 8      | 90  | 10    |
| 60775 | 16-17 | 210    | 24     | 8,5    | 27     | 8,5    | 120 |       |
| 60776 | 17-19 | 225    | 27     | 9      | 29     | 9      | 150 | ● B   |
| 60777 | 18-19 | 225    | 27     | 9      | 29     | 9      | 150 |       |
| 60778 | 20-22 | 240    | 31     | 10     | 34     | 10     | 200 |       |
| 60779 | 21-23 | 255    | 32     | 10,5   | 35     | 10,5   | 240 |       |
| 60780 | 24-27 | 270    | 37     | 11     | 39     | 11     | 300 | 5     |
| 60781 | 25-28 | 285    | 38     | 13     | 42     | 13     | 360 |       |
| 60782 | 30-32 | 335    | 45     | 14     | 48     | 14     | 530 |       |

DIN 837

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**INCH**







| COD.  | AF inch   | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   | Icons  |
|-------|-----------|--------|--------|--------|--------|--------|-----|--------|
| 57775 | 3/8-7/16  | 150    | 16     | 7,5    | 20     | 7,5    | 49  |        |
| 57776 | 1/2-9/16  | 165    | 19     | 8,5    | 21     | 8,5    | 65  |        |
| 57777 | 11/16-3/4 | 225    | 27     | 10     | 28     | 10     | 150 | 10 ● B |
| 57778 | 13/16-7/8 | 240    | 30     | 12     | 33     | 12     | 175 |        |



**B** Cromado aeroespacial / Aeraspatial chrome plating / Chromée aérospatiale / Verchromt aeraspatiale / Cromate satinata / Cromado fosco aeroespacial / Матовый хром




| COD.         |  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |  |  |  |   |
|--------------|-----------------------------------------------------------------------------------|--------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---|
| <b>57779</b> | 15/16-1                                                                           | 270    | 36     | 12     | 38     | 12     | 280                                                                               | 5                                                                                 | ●                                                                                  | B |

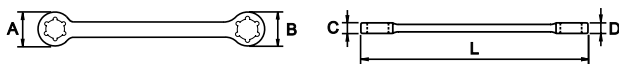
DIN 837





**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**SET**

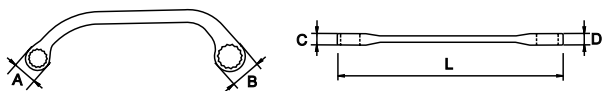
| COD.         | PCS. |  | COD. PCS.                                                                          | (mm)                                                                           |
|--------------|------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>68589</b> | 8    | 90081                                                                             | 60771, 60772, 60773, 60774, 60775, 60777, 60778, 60779                             | 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23                           |
| <b>68607</b> | 12   | 90083                                                                             | 60770, 60771, 60772, 60773, 60774, 60775, 60777, 60778, 60779, 60780, 60781, 60782 | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-27, 25-28, 30-32 |






**TORX®\***


| COD.         |  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |  |  |  |   |
|--------------|-----------------------------------------------------------------------------------|--------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---|
| <b>57718</b> | E6 x E8                                                                           | 113    | 9      | 11     | 4.5    | 5.5    | 20                                                                                |                                                                                   |                                                                                    |   |
| <b>57719</b> | E7 x E11                                                                          | 127    | 12     | 16     | 6      | 7      | 29                                                                                |                                                                                   |                                                                                    |   |
| <b>57720</b> | E10 x E12                                                                         | 142    | 14     | 17     | 6.5    | 8      | 31                                                                                | 10                                                                                | ●                                                                                  | A |
| <b>57721</b> | E14 x E18                                                                         | 182    | 17     | 21     | 8      | 10     | 75                                                                                |                                                                                   |                                                                                    |   |
| <b>57722</b> | E16 x E22                                                                         | 204    | 19     | 26     | 9      | 12     | 115                                                                               |                                                                                   |                                                                                    |   |
| <b>57723</b> | E20 x E24                                                                         | 224    | 25     | 29     | 11     | 13     | 160                                                                               |                                                                                   |                                                                                    |   |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**MEDIA LUNA / HALF MOON / DEMI-LUNE / STARTER BLOCKSCHLÜSSEL / A MEZZALUNA / MEIA-LUNA / МОТОРНЫЙ КЛЮЧ**
**MM**


| COD.         |  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |  |  |  |   |
|--------------|-------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---|
| <b>57158</b> | 6-8                                                                                 |        |        |        |        |        |                                                                                     |                                                                                     |                                                                                      |   |
| <b>57155</b> | 7-9                                                                                 | 135    | 15     | 19     |        |        | 55                                                                                  |                                                                                     |                                                                                      |   |
| <b>57159</b> | 8-10                                                                                |        |        |        | 8      | 8      |                                                                                     |                                                                                     |                                                                                      |   |
| <b>57156</b> | 10-12                                                                               |        |        | 22     |        |        |                                                                                     |                                                                                     |                                                                                      |   |
| <b>60795</b> | 11-13                                                                               | 150    | 20     | 23     | 9      | 9      | 90                                                                                  |                                                                                     |                                                                                      |   |
| <b>57160</b> | 13-15                                                                               | 175    |        |        |        |        | 110                                                                                 |                                                                                     |                                                                                      |   |
| <b>60796</b> | 13-17                                                                               |        | 25     | 28     | 10     | 10     | 120                                                                                 | 10                                                                                  | ●                                                                                    | B |
| <b>57161</b> | 14-16                                                                               | 185    |        |        |        |        | 160                                                                                 |                                                                                     |                                                                                      |   |
| <b>60797</b> | 14-17                                                                               |        |        |        |        |        |                                                                                     |                                                                                     |                                                                                      |   |
| <b>57162</b> | 17-19                                                                               | 210    | 28     | 31     | 11     | 11     | 180                                                                                 |                                                                                     |                                                                                      |   |
| <b>57157</b> | 18-20                                                                               |        |        |        |        |        |                                                                                     |                                                                                     |                                                                                      |   |
| <b>60798</b> | 19-22                                                                               | 230    | 31     | 35     | 12     | 12     | 280                                                                                 |                                                                                     |                                                                                      |   |
| <b>57163</b> | 21-22                                                                               |        | 32     |        |        |        | 300                                                                                 |                                                                                     |                                                                                      |   |

DIN 475

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

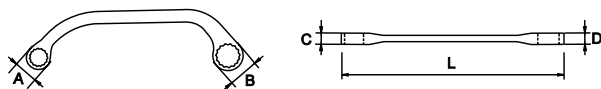
Cr-V

B Cromado aeroespacial / Aeraspacial chrome plating / Chromée aérospatiale / Verchromt aeraspacial / Cromate satinato / Cromado fosco aeroespacial / Матовый хром

\* Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)

A Cromado pulido espejo / Mirror polished chrome plating / Polie chromée / Verchromt geschliffen / Cromate lucido / Cromado pulido / Полированный хром

## INCH



| COD.  | AF <sup>+</sup> / <sub>inch</sub> | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   |    |   |   |
|-------|-----------------------------------|--------|--------|--------|--------|--------|-----|----|---|---|
| 57148 | 1/4 - 5/16                        | 135    | 15     | 19     | 8,0    | 8,0    | 55  | 10 | ● | B |
| 57149 | 5/16 - 3/8                        |        |        |        |        |        |     |    |   |   |
| 57150 | 7/16 - 1/2                        | 155    | 20     | 23     | 9,0    | 9,0    | 90  |    |   |   |
| 57151 | 9/16 - 5/8                        | 185    | 25     | 28     | 10     | 10     | 160 |    |   |   |
| 57152 | 11/16 - 3/4                       | 210    | 28     | 31     | 11     | 11     | 210 |    |   |   |
| 57153 | 13/16 - 7/8                       | 230    | 32     | 35     | 12     | 12     | 300 |    |   |   |

DIN 475

## CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V


**PARA RACORES / FLARE NUT / POLYGONALE À TUYAUTER / OFFENER DOPPELRINGSCHLÜSSEL / CHIAVE PER RACCORDI / LUNETAS ABERTAS COM BATENTE / КЛЮЧ ПРОКАЧНОЙ РАЗРЕЗНОЙ**

## MM



| COD.  | AF <sup>+</sup> / <sub>mm</sub> | Pt | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | g   |    |   |   |
|-------|---------------------------------|----|--------|--------|--------|--------|--------|--------|--------|-----|----|---|---|
| 60785 | 8-10                            | 6  | 145    | 19     | 6,0    | 7,5    | 21     | 7,5    | 9,0    | 45  | 10 | ● | B |
| 60786 | 9-11                            |    | 150    | 21     | 6,5    | 9,0    | 22     |        |        |     |    |   |   |
| 60787 | 10-11                           | 12 | 165    | 22     | 8,5    | 10     | 25     | 10     | 16     | 100 | 8  |   |   |
| 60788 | 11-13                           |    | 180    | 25     | 9,5    | 11     | 28     | 9,0    |        |     |    |   |   |
| 60789 | 12-14                           | 12 | 210    | 31     | 14     | 15     | 34     | 12     | 13     | 165 | 8  | ● | B |
| 60790 | 17-19                           |    | 230    | 34     | 18     | 17     | 39     | 14     |        |     |    |   |   |
| 60791 | 19-22                           | 12 | 250    | 39     | 17     | 18     | 41     | 15     | 16     | 290 | 8  |   |   |
| 60792 | 22-24                           |    | 260    | 42     | 18     | 21     | 46     | 16     |        |     |    |   |   |
| 60793 | 24-27                           | 12 | 260    | 42     | 18     | 21     | 46     | 16     | 17     | 280 | 6  |   |   |
| 60794 | 30-32                           |    | 280    | 48     | 22     | 24     | 50     | 20     |        |     |    |   |   |

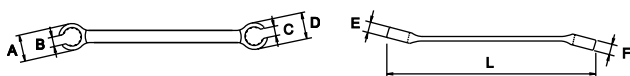
DIN 3118

## CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V



## INCH



| COD.  | AF <sup>+</sup> / <sub>inch</sub> | Pt   | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | g   |    |   |   |
|-------|-----------------------------------|------|--------|--------|--------|--------|--------|--------|--------|-----|----|---|---|
| 58752 | 1/4 - 5/16                        | 6    | 135    | 5      | 6      | 16,2   | 17,9   | 6,6    | 8,2    | 35  | 10 | ● | B |
| 58753 | 5/16 - 3/8                        |      | 145    | 6      | 7      | 18,4   | 20,8   | 7      | 8,5    | 45  |    |   |   |
| 58754 | 3/8 - 7/16                        | 12   | 152    | 6,5    | 8,5    | 20,8   | 22,6   | 8,5    | 9      | 60  | 8  | ● | B |
| 58755 | 7/16 - 1/2                        |      | 165    | 8,5    | 10     | 22,6   | 25     | 9      | 10,5   | 80  |    |   |   |
| 58756 | 1/2 - 9/16                        | 6-12 | 178    | 9      | 11     | 25     | 27,4   | 9,5    | 11     | 115 | 8  | ● | B |
| 58757 | 9/16 - 5/8                        |      | 196    | 11     | 14     | 27,4   | 30     | 11     | 12     | 140 |    |   |   |
| 58758 | 5/8 - 11/16                       | 12   | 210    | 14     | 15     | 30     | 32,5   | 12     | 14     | 180 | 6  |   |   |
| 58759 | 11/16 - 3/4                       |      | 233    | 15     | 17     | 32,5   | 38     | 14     | 16     | 245 |    |   |   |
| 58760 | 13/16 - 7/8                       | 12   | 265    | 18     | 20     | 41     | 45     | 17     | 18     | 350 | 6  |   |   |
| 58761 | 1 - 1.1/8                         |      | 285    | 22     | 24     | 48,5   | 51     | 21     | 23     | 465 |    |   |   |
| 58762 | 1.1/8 - 1.1/4                     | 12   | 285    | 22     | 24     | 48,5   | 51     | 21     | 23     | 465 | 6  |   |   |

DIN 3118

## CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V


**B** Cromado aeroespacial / Aeraspatial chrome plating / Chromée aérospatiale / Verchromt aeraspatiale / Cromate satinata / Cromado fosco aeroespacial / Матовый хром

■ SET

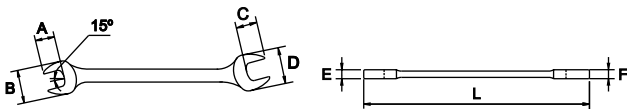
■ MM

| COD.         | PCS. |       | COD. PCS.                                                            | (mm)                                                               |
|--------------|------|-------|----------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>68587</b> | 6    | 90056 | 60785, 60788, 60789, 60790, 60792, 60793                             | 8-10, 11-13, 12-14, 17-19, 22-24, 24-27                            |
| <b>68588</b> | B    | 90058 | 60785, 60786, 60787, 60788, 60789, 60790, 60791, 60792, 60793, 60794 | 8-10, 9-11, 10-11, 11-13, 12-14, 17-19, 19-22, 22-24, 24-27, 30-32 |



■ FIJA / OPEN-END / À FOURCHE / DOPPELMAULSCHLÜSSEL / CHIAVE FISSE / DUAS VOCAS / РОЖКОВЫЙ КЛЮЧ

■ MM



| COD.         |       | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) |     |    |  |
|--------------|-------|--------|--------|--------|--------|--------|--------|--------|-----|----|--|
| <b>60800</b> | 6-7   | 95     | 6,5    | 14     | 7,5    | 16     | 3,2    | 3,5    | 20  |    |  |
| <b>60801</b> | 7-8   | 100    | 8,5    | 17     | 8,5    | 19     | 4,0    | 3,8    | 23  |    |  |
| <b>60802</b> | 8-9   | 105    |        | 18     | 9,0    | 20     |        | 4,0    | 32  |    |  |
| <b>60803</b> | 8-10  | 115    | 9,0    |        | 10     | 21     | 4,5    | 4,5    | 30  |    |  |
| <b>60804</b> | 9-11  |        |        | 19     |        |        |        |        |     |    |  |
| <b>60805</b> | 10-11 | 125    |        | 21     | 12     | 23     |        | 5,0    | 35  |    |  |
| <b>60806</b> | 10-12 |        | 11     |        |        | 26     |        |        |     |    |  |
| <b>60807</b> | 10-13 | 130    |        | 22     |        |        |        |        | 40  |    |  |
| <b>60808</b> | 11-13 |        |        |        | 13     |        |        |        |     |    |  |
| <b>60808</b> | 11-13 | 135    |        | 25     |        | 28     |        |        | 50  |    |  |
| <b>60809</b> | 12-13 |        | 12     |        |        |        | 5,5    | 5,5    |     |    |  |
| <b>60810</b> | 12-14 | 140    |        | 27     | 14     |        |        |        | 45  |    |  |
| <b>60811</b> | 13-14 |        |        |        |        | 31     |        |        | 55  | 10 |  |
| <b>60812</b> | 13-15 |        |        | 28     |        |        |        | 6,0    | 70  |    |  |
| <b>60813</b> | 13-16 | 150    |        |        | 15     |        |        |        |     |    |  |
| <b>60814</b> | 14-15 |        | 14     |        |        | 34     | 6,0    |        | 75  |    |  |
| <b>60815</b> | 13-17 | 155    |        | 29     |        |        |        |        | 80  |    |  |
| <b>60816</b> | 14-17 |        |        |        |        |        |        | 6,5    |     |    |  |
| <b>60817</b> | 16-17 | 160    |        | 33     | 18     | 35     |        |        | 85  |    |  |
| <b>60818</b> | 16-18 |        | 16     | 34     |        |        | 6,5    |        | 110 |    |  |
| <b>60819</b> | 17-19 |        |        |        | 19     | 36     |        |        | 135 |    |  |
| <b>60820</b> | 18-19 | 170    |        | 35     | 20     | 38     |        | 7,5    | 130 |    |  |
| <b>60821</b> | 18-21 |        | 18     |        |        | 39     | 7,0    |        | 140 |    |  |
| <b>60822</b> | 17-22 |        |        |        |        | 44     |        |        |     |    |  |
| <b>60823</b> | 19-22 | 190    | 19     | 37     | 22     | 45     | 8,0    | 8,0    | 170 |    |  |
| <b>60824</b> | 20-22 | 195    |        | 38     |        |        |        |        | 165 |    |  |
| <b>60825</b> | 19-24 | 210    | 20     | 39     |        | 46     |        | 8,5    | 180 |    |  |
| <b>60826</b> | 21-23 |        | 22     |        | 23     | 48     |        |        |     |    |  |
| <b>60827</b> | 21-24 | 220    | 23     | 44     | 24     |        |        | 9,0    | 200 |    |  |
| <b>60828</b> | 22-24 |        |        |        |        | 49     |        |        |     |    |  |
| <b>60829</b> | 22-27 |        |        | 48     | 25     | 50     | 9,0    |        | 240 | 5  |  |
| <b>60830</b> | 24-27 | 240    | 24     | 49     | 26     |        |        |        | 260 |    |  |
| <b>60831</b> | 25-28 | 250    |        |        | 28     | 55     | 9,5    |        | 350 |    |  |
| <b>60832</b> | 24-30 | 260    | 25     | 50     |        |        |        |        |     |    |  |
| <b>60833</b> | 27-30 |        | 26     | 55     | 29     | 60     | 10     | 10     | 340 |    |  |
| <b>60834</b> | 27-32 | 270    |        |        |        |        |        |        | 400 |    |  |
| <b>60835</b> | 30-32 |        | 28     | 60     | 30     | 65     |        | 11     | 450 |    |  |
| <b>60836</b> | 30-34 | 290    | 29     |        | 32     | 70     | 12     | 12     | 500 |    |  |



B Cromado aeroespacial / Aeraspacial chrome plating / Chromée aérospatiale / Verchromt aeraspaciale / Cromate satinata / Cromado fosco aeroespacial / Матовый хром

Si no encuentra el artículo que necesita, consúltenos en [consulta@egamaster.com](mailto:consulta@egamaster.com) o en [www.egamaster.com](http://www.egamaster.com)  
If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
Si vous ne trouvez pas l'article que vous desirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)

| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | g    |   |   |
|-------|-------|--------|--------|--------|--------|--------|--------|--------|------|---|---|
| 60837 | 30-36 |        | 29     | 60     | 35     | 70     |        |        | 600  | 5 | ● |
| 60838 | 32-36 | 300    | 30     | 65     | 36     | 70     | 12     | 13     | 650  |   |   |
| 60839 | 34-36 | 310    | 33     | 70     | 37     | 75     |        |        | 700  |   |   |
| 60840 | 36-41 | 340    | 37     | 75     | 42     | 85     | 14     |        | 750  |   |   |
| 60841 | 41-46 | 370    | 41     | 80     | 43     | 90     |        | 14     | 900  |   |   |
| 60842 | 46-50 | 400    |        | 90     | 50     | 100    | 15     |        | 1500 | 1 | - |
| 60843 | 50-55 | 450    | 48     | 100    | 55     | 110    | 16     | 15     | 1600 |   |   |
| 60799 | 55-60 | 495    |        | 110    |        | 120    | 18     | 20     | 2150 |   |   |
| 60766 | 65-70 | 580    | 65     | 140    | 70     | 140    | 23     | 23     | 3550 |   |   |
| 60769 | 75-80 | 660    | 85     | 170    | 85     | 160    | 28     | 26     | 5600 |   |   |

DIN 895

■ SET

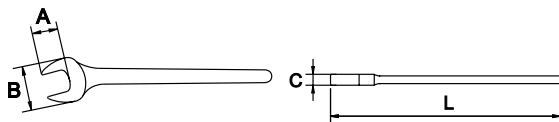
■ MM

| COD.  | PCS. |       | COD. PCS.                                                                          | (mm)                                                                           |
|-------|------|-------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 68585 | 8    | 90081 | 60802, 60805, 60809, 60814, 60817, 60820, 60826, 60828                             | 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 21-23, 22-24                           |
| 68586 | 12   | 90055 | 60800, 60802, 60805, 60809, 60814, 60817, 60820, 60824, 60826, 60830, 60831, 60835 | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-27, 25-28, 30-32 |



■ FIJA UNA BOCA / SINGLE ENDED OPEN JAW SPANNER / À FOURCHE SIMPLE / EINMAULSCHLÜSSEL / FISSE SEMPLICE / FIXA DE UMA BOCA / ОДНОРОЖКОВЫЙ КЛЮЧ

■ MM



| COD.  | AF mm | L (mm) | AF inch | A (mm) | B (mm) | C (mm) | g    |    |   |  |
|-------|-------|--------|---------|--------|--------|--------|------|----|---|--|
| 60844 | 8     | 90     | 5/16    | 7,0    | 17     | 3,8    | 15   |    |   |  |
| 60845 | 9     | 100    |         | 9,5    | 20     | 3,9    | 18   |    |   |  |
| 60846 | 10    | 105    |         | 11     | 22     | 4,5    | 20   |    |   |  |
| 60847 | 11    | 110    | 7/16    | 12     | 23     |        | 23   |    |   |  |
| 60848 | 12    | 125    |         | 13     | 25     | 5,5    | 27   |    |   |  |
| 60849 | 13    | 130    |         | 14     | 28     |        | 37   |    |   |  |
| 60850 | 14    | 140    | 9/16    | 15     | 29     | 6,0    |      | 10 |   |  |
| 60851 | 15    | 150    |         |        | 32     |        | 42   |    |   |  |
| 60852 | 16    | 155    |         | 16     |        |        |      |    |   |  |
| 60853 | 17    | 160    |         | 17     | 34     | 6,5    | 60   |    | ● |  |
| 60854 | 18    | 165    |         | 18     | 36     |        |      |    |   |  |
| 60855 | 19    | 170    | 3/4     | 20     | 39     | 7,5    | 75   |    |   |  |
| 60856 | 21    | 180    | -       |        | 43     |        | 100  |    |   |  |
| 60857 | 22    | 195    | 7/8     | 23     | 45     | 8,5    | 120  |    |   |  |
| 60858 | 24    | 210    |         |        | 48     | 9,5    | 140  |    |   |  |
| 66461 | 25    | 220    |         | 25     | 50     |        | 160  |    |   |  |
| 60859 | 27    | 240    | 1.1/16  | 27     | 55     | 10     | 180  |    |   |  |
| 60860 | 30    | 260    | 1.3/16  | 29     | 60     |        | 300  |    |   |  |
| 60861 | 32    | 270    | -       | 32     | 65     | 12     | 310  |    |   |  |
| 60862 | 34    | 280    | 1.11/32 | 33     | 70     | 13     | 400  | 5  |   |  |
| 60863 | 36    | 300    | -       | 37     |        |        | 420  |    |   |  |
| 60864 | 38    | 320    | 1.1/2   | 41     | 75     | 14     |      |    |   |  |
| 60865 | 41    | 340    | 1.5/8   | 42     | 85     |        | 550  |    |   |  |
| 60866 | 46    | 370    | 1.13/16 | 44     | 90     | 15     | 800  |    |   |  |
| 66466 | 48    | 380    | -       | 46     | 95     |        | 900  |    |   |  |
| 60867 | 50    | 390    |         | 50     | 100    | 16     | 1050 |    |   |  |



| COD.  | AF mm | L (mm) | AF inch | A (mm) | B (mm) | C (mm) | g    |   |  |
|-------|-------|--------|---------|--------|--------|--------|------|---|--|
| 60868 | 55    | 440    | -       | 55     | 110    | 17     | 1200 | 5 |  |
| 60869 | 60    | 470    | 2.3/8   |        | 120    |        | 1550 |   |  |
| 60870 | 65    | 500    | 2.9/16  |        | 130    | 18     |      |   |  |
| 62984 | 70    | 550    | 2.3/4   | 60     | 140    | 19     | 2250 |   |  |
| 62985 | 75    | 600    |         |        | 150    | 20     | 2850 |   |  |
| 62986 | 80    |        |         |        | 160    | 21     | 3600 |   |  |
| 62987 | 85    | 650    |         | 70     | 170    | 22     | 3500 | 1 |  |
| 62988 | 90    |        |         |        |        |        | 4800 |   |  |
| 62989 | 95    | 750    |         | 75     | 190    | 24     | 4600 |   |  |
| 63848 | 100   |        |         |        |        |        | 7700 |   |  |
| 63849 | 105   | 1000   |         | 105    | 220    | 29     | 8000 |   |  |

DIN 894

■ SET

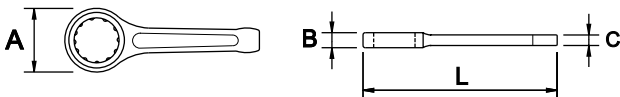
■ MM

| COD.  | PCS. |       | COD. PCS.                                                                                | (mm)                                            |
|-------|------|-------|------------------------------------------------------------------------------------------|-------------------------------------------------|
| 68608 | 8    | 90081 | 60844, 60846, 60847, 60848,<br>60849, 60850, 60853, 60855                                | 8, 10, 11, 12, 13, 14, 17, 19                   |
| 68609 | 12   | 90083 | 60844, 60845, 60846, 60847,<br>60848, 60849, 60850, 60852,<br>60853, 60854, 60855, 60857 | 8, 9, 10, 11, 12, 13, 14, 16, 17, 18,<br>19, 22 |



**LLAVES DE GOLPE SEGURIDAD TOTAL / TOTAL SAFETY SLOGGING WRENCHES / CLÉS À FRAPPER SÉCURITÉ TOTALE / SCHLAGRINGSCHLÜSSEL MIT SICHERUNG / CHIAVI A BATTERE SICUREZZA TOTALE / CHAVES DE LUNETA SÉRIE PANCADA DE SEGURANÇA TOTAL / КОЛЬЦЕВОЙ УДАРНЫЙ КЛЮЧ-ЗВЕЗДОЧКА С ПОДВЕСОМ**

■ MM

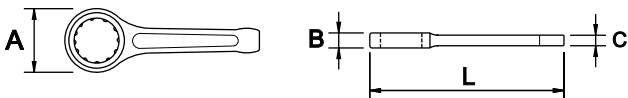


| COD.     | AF mm | L (mm) | A (mm) | B (mm) | C (mm) |       | Kg  |   |
|----------|-------|--------|--------|--------|--------|-------|-----|---|
| AD574257 | 22    | 155    | 38     | 13     | 8      |       |     |   |
| AD574267 | 23    |        |        |        |        |       |     |   |
| AD574277 | 24    | 165    | 42     | 14     | 8,5    |       | 0,2 |   |
| AD574287 | 25    |        |        |        |        |       |     |   |
| AD574297 | 26    |        |        |        |        |       |     |   |
| AD562957 | 27    | 175    | 46     |        | 9,5    |       | 0,3 |   |
| AD574307 | 28    |        |        |        |        |       |     |   |
| AD574317 | 29    |        | 50     | 16     |        | 89021 | 0,4 |   |
| AD562967 | 30    | 185    |        |        |        |       |     |   |
| AD574327 | 31    |        |        |        |        |       |     |   |
| AD574337 | 32    |        | 55     |        | 11     |       | 0,5 | 5 |
| AD574347 | 33    |        |        | 18     |        |       |     |   |
| AD574357 | 34    | 210    |        |        |        |       |     |   |
| AD574367 | 35    |        |        | 19     |        |       | 0,6 |   |
| AD574377 | 36    |        | 60     |        |        |       |     |   |
| AD574387 | 37    | 220    |        |        |        |       |     |   |
| AD574397 | 38    |        |        | 20     | 12     |       | 0,7 |   |
| AD574407 | 41    | 225    | 65     |        |        |       |     |   |
| AD574417 | 42    |        |        |        |        |       |     |   |
| AD574427 | 45    |        |        |        |        |       |     |   |
| AD574437 | 46    | 240    | 75     | 22     | 13     | 89022 | 1   |   |
| AD574447 | 47    |        |        |        |        |       |     |   |
| AD574457 | 48    |        |        |        |        |       |     |   |
| AD574467 | 50    | 250    | 80     | 23     | 14     |       | 1,2 | 1 |
| AD574477 | 52    |        |        |        |        |       |     |   |







| COD.     | AF mm | L (mm) | A (mm) | B (mm) | C (mm) |       | Kg  |   |
|----------|-------|--------|--------|--------|--------|-------|-----|---|
| AD574487 | 54    |        |        |        |        |       |     |   |
| AD574497 | 55    |        | 85     | 24     | 14     |       | 1,4 |   |
| AD574507 | 56    |        |        |        |        |       |     |   |
| AD574517 | 58    | 270    |        |        |        |       |     |   |
| AD574527 | 59    |        |        |        |        |       |     |   |
| AD574537 | 60    |        | 90     | 26     | 15     | 89022 | 1,6 |   |
| AD574547 | 61    |        |        |        |        |       |     |   |
| AD574557 | 62    |        |        |        |        |       |     |   |
| AD574567 | 63    |        |        |        |        |       |     |   |
| AD574577 | 64    | 300    | 100    | 30     | 16     |       | 1,9 |   |
| AD562977 | 65    |        |        |        |        |       |     |   |
| AD574587 | 66    |        |        |        |        |       |     |   |
| AD574597 | 67    |        |        |        |        |       |     |   |
| AD574607 | 68    |        |        |        |        |       |     |   |
| AD574617 | 69    | 320    | 110    | 32     | 17     |       | 2,3 | 1 |
| AD574627 | 70    |        |        |        |        |       |     |   |
| AD574047 | 71    |        |        |        |        | 89023 |     |   |
| AD574057 | 72    |        |        |        |        |       |     |   |
| AD574067 | 73    |        |        |        |        |       |     |   |
| AD574077 | 74    | 330    | 115    | 33     | 18     |       | 2,9 |   |
| AD574087 | 75    |        |        |        |        |       |     |   |
| AD585817 | 80    | 350    | 125    | 34     | 19     |       | 3,6 |   |
| AD585827 | 85    | 360    | 130    | 36     | 20     |       | 3,9 |   |
| AD585837 | 90    | 380    | 135    | 39     | 23     | 89016 | 5,0 |   |
| AD585847 | 95    | 390    | 145    |        |        |       |     |   |
| AD585857 | 100   | 410    | 150    | 43     | 25     | 89017 | 6,0 |   |
| AD585867 | 105   | 420    | 155    |        |        |       | 6,5 |   |
| AD585877 | 110   | 450    | 170    | 45     | 28     | 89018 | 8,0 |   |
| AD585887 | 115   |        |        |        |        |       | 9,5 |   |

## INCH



| COD.     | AF inch | L (mm) | A (mm) | B (mm) | C (mm) |       | Kg  |   |
|----------|---------|--------|--------|--------|--------|-------|-----|---|
| AD574657 | 7/8     | 155    | 38     | 13     | 8      |       | 0,2 |   |
| AD574667 | 15/16   | 165    | 42     | 14     | 9      |       |     |   |
| AD574677 | 1       | 175    | 46     |        | 10     |       | 0,3 |   |
| AD574687 | 1.1/16  |        |        | 16     |        |       |     |   |
| AD574697 | 1.1/8   |        | 50     |        |        | 89021 | 0,4 |   |
| AD574707 | 1.3/16  | 185    |        |        |        |       |     |   |
| AD574717 | 1.1/4   |        | 55     |        | 11     |       |     |   |
| AD574727 | 1.5/16  |        |        | 18     |        |       | 0,5 | 5 |
| AD574737 | 1.3/8   | 210    |        | 19     |        |       |     |   |
| AD574747 | 1.7/16  |        | 60     |        |        |       |     |   |
| AD574757 | 1.1/2   | 220    |        |        |        |       |     |   |
| AD574767 | 1.9/16  |        |        |        |        |       |     |   |
| AD574777 | 1.5/8   | 230    | 65     | 20     | 12     |       | 0,7 |   |
| AD574787 | 1.11/16 |        |        |        |        |       |     |   |
| AD574797 | 1.3/4   |        |        |        |        |       |     |   |
| AD574807 | 1.13/16 | 240    | 75     | 22     | 13     |       |     |   |
| AD574817 | 1.7/8   |        |        |        |        |       | 1   |   |
| AD574827 | 1.15/16 |        |        |        |        | 89022 |     |   |
| AD574837 | 2       | 250    | 80     | 23     |        |       |     |   |
| AD574847 | 2.1/16  |        |        |        | 14     |       |     | 1 |
| AD574857 | 2.1/8   |        | 85     | 24     |        |       | 1,4 |   |
| AD574867 | 2.3/16  | 270    |        |        |        |       |     |   |
| AD574877 | 2.1/4   |        | 90     | 26     | 15     |       | 1,6 |   |
| AD574887 | 2.5/16  |        |        |        |        |       |     |   |



| COD.     |  | L (mm) | A (mm) | B (mm) | C (mm) |  |  |  |
|----------|-----------------------------------------------------------------------------------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| AD574897 | 2.3/8                                                                             | 270    | 90     | 26     | 15     | 89022                                                                             | 1,6                                                                               | 1                                                                                   |
| AD574907 | 2.7/16                                                                            |        |        |        |        |                                                                                   |                                                                                   |                                                                                     |
| AD574917 | 2.1/2                                                                             |        |        |        |        |                                                                                   |                                                                                   |                                                                                     |
| AD574927 | 2.9/16                                                                            | 300    | 100    | 28     | 16     | 89023                                                                             | 2,3                                                                               | 1                                                                                   |
| AD574937 | 2.5/8                                                                             |        |        |        |        |                                                                                   |                                                                                   |                                                                                     |
| AD574947 | 2.11/16                                                                           |        |        |        |        |                                                                                   |                                                                                   |                                                                                     |
| AD574957 | 2.3/4                                                                             | 320    | 110    | 32     | 17     |                                                                                   | 2,5                                                                               |                                                                                     |

**ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**
**MM**

| COD.  | Descripción / Description / Description                                  | Válido para / Valid for / Valable pour |
|-------|--------------------------------------------------------------------------|----------------------------------------|
| 89129 |                                                                          | AD574257                               |
| 89130 |                                                                          | AD574267                               |
| 89131 |                                                                          | AD574277                               |
| 89132 |                                                                          | AD574287                               |
| 89133 |                                                                          | AD574297                               |
| 89134 |                                                                          | AD562957                               |
| 89135 |                                                                          | AD574307                               |
| 89136 |                                                                          | AD574317                               |
| 89137 |                                                                          | AD562967                               |
| 89138 |                                                                          | AD574327                               |
| 89139 |                                                                          | AD574337                               |
| 89140 |                                                                          | AD574347                               |
| 89141 |                                                                          | AD574357                               |
| 89142 |                                                                          | AD574367                               |
| 89143 |                                                                          | AD574377                               |
| 89144 |                                                                          | AD574387                               |
| 89145 |                                                                          | AD574397                               |
| 89148 |                                                                          | AD574407                               |
| 89149 |                                                                          | AD574417                               |
| 89152 |                                                                          | AD574427                               |
| 89153 |                                                                          | AD574437                               |
| 89154 |                                                                          | AD574447                               |
| 89155 |                                                                          | AD574457                               |
| 89157 |                                                                          | AD574467                               |
| 89159 |                                                                          | AD574477                               |
| 89161 |                                                                          | AD574487                               |
| 89162 | Set 5 pcs hilo tórico /<br>Set of 5 o-ring cords /<br>Jeu de 5 pcs corde | AD574497                               |
| 89163 |                                                                          | AD574507                               |
| 89165 |                                                                          | AD574517                               |
| 89166 |                                                                          | AD574527                               |
| 89167 |                                                                          | AD574537                               |
| 89168 |                                                                          | AD574547                               |
| 89169 |                                                                          | AD574557                               |
| 89170 |                                                                          | AD574567                               |
| 89171 |                                                                          | AD574577                               |
| 89172 |                                                                          | AD562977                               |
| 89173 |                                                                          | AD574587                               |
| 89174 |                                                                          | AD574597                               |
| 89175 | AD574607                                                                 |                                        |
| 89176 | AD574617                                                                 |                                        |
| 89177 | AD574627                                                                 |                                        |
| 89178 | AD574047                                                                 |                                        |
| 89179 | AD574057                                                                 |                                        |
| 89180 | AD574067                                                                 |                                        |
| 89181 | AD574077                                                                 |                                        |
| 89182 | AD574087                                                                 |                                        |
| 89220 | AD585817                                                                 |                                        |
| 89221 | AD585827                                                                 |                                        |
| 89222 | AD585837                                                                 |                                        |
| 89223 | AD585847                                                                 |                                        |
| 89224 | AD585857                                                                 |                                        |
| 89225 | AD585867                                                                 |                                        |
| 89256 | AD585877                                                                 |                                        |
| 89257 | AD585887                                                                 |                                        |

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**INCH**

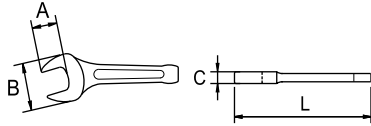
| COD.  | Descripción / Description / Description                                  | Válido para / Valid for / Valable pour |
|-------|--------------------------------------------------------------------------|----------------------------------------|
| 89187 |                                                                          | AD574657                               |
| 89188 |                                                                          | AD574667                               |
| 89189 |                                                                          | AD574677                               |
| 89190 |                                                                          | AD574687                               |
| 89191 |                                                                          | AD574697                               |
| 89192 |                                                                          | AD574707                               |
| 89193 |                                                                          | AD574717                               |
| 89194 |                                                                          | AD574727                               |
| 89195 |                                                                          | AD574737                               |
| 89197 |                                                                          | AD574747                               |
| 89198 |                                                                          | AD574757                               |
| 89199 |                                                                          | AD574767                               |
| 89200 |                                                                          | AD574777                               |
| 89201 |                                                                          | AD574787                               |
| 89202 | Set 5 pcs hilo tórico /<br>Set of 5 o-ring cords /<br>Jeu de 5 pcs corde | AD574797                               |
| 89203 |                                                                          | AD574807                               |
| 89204 |                                                                          | AD574817                               |
| 89205 |                                                                          | AD574827                               |
| 89206 |                                                                          | AD574837                               |
| 89207 |                                                                          | AD574847                               |
| 89208 |                                                                          | AD574857                               |
| 89209 |                                                                          | AD574867                               |
| 89211 |                                                                          | AD574877                               |
| 89212 |                                                                          | AD574887                               |
| 89213 | AD574897                                                                 |                                        |
| 89214 | AD574907                                                                 |                                        |
| 89215 | AD574917                                                                 |                                        |
| 89216 | AD574927                                                                 |                                        |
| 89217 | AD574937                                                                 |                                        |
| 89218 | AD574947                                                                 |                                        |
| 89219 | AD574957                                                                 |                                        |

 x5

**MM / INCH**

| COD.  | Descripción / Description / Description                                               |
|-------|---------------------------------------------------------------------------------------|
| 89021 |  |
| 89022 |                                                                                       |
| 89023 |                                                                                       |
| 89016 |                                                                                       |
| 89017 |                                                                                       |
| 89018 |                                                                                       |

Grillete / Shackle / Manille

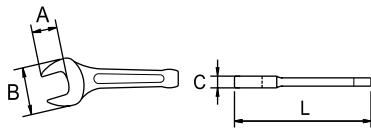
**■ LLAVES DE GOLPE / SLOGGING WRENCHES / CLÉS À FRAPPER / SCHLAGSCHLÜSSEL / CHIAVI A PERCUSSIONE / CHAVES DE PANCADA / УДАРНЫЕ КЛЮЧИ**
**■ FIJA DE GOLPE / SLOGGING OPEN WRENCH / À FOURCHE À FRAPPER / SCHLAGMAULSCHLÜSSEL / FISSE AD IMPULSO / BOCA DE IMPACTO / УДАРНЫЙ РОЖКОВЫЙ КЛЮЧ**
**■ MM**


| COD.  | AP mm | L (mm) | A (mm) | B (mm) | C (mm) | Kg  |   |   |
|-------|-------|--------|--------|--------|--------|-----|---|---|
| 67423 | 17    | 125    | 19     | 41     |        | 0,1 |   |   |
| 67424 | 19    |        |        |        |        |     |   |   |
| 67425 | 21    |        |        |        | 12     |     |   |   |
| 67426 | 22    | 135    | 22     | 46     |        | 0,2 |   |   |
| 60871 | 24    | 150    | 24     | 50     |        |     | 5 | ● |
| 60903 | 26    | 175    | 27     | 60     | 15     | 0,4 |   |   |
| 60872 | 27    |        |        |        |        |     |   |   |
| 60873 | 30    | 190    | 30     | 65     | 16     |     |   |   |
| 60874 | 32    |        | 32     |        |        | 0,6 |   |   |
| 67427 | 34    | 200    | 34     | 70     |        |     |   |   |
| 60875 | 36    | 210    | 36     | 75     | 17     | 0,7 |   |   |
| 67428 | 38    | 220    | 38     | 80     |        | 0,8 |   |   |
| 60876 | 41    | 230    | 41     | 90     | 18     | 0,9 |   |   |
| 60877 | 46    | 250    | 46     | 100    | 20     | 1,5 |   |   |
| 60878 | 50    |        |        |        |        |     |   |   |
| 67563 | 52    | 280    | 50     | 110    | 21     |     |   |   |
| 67435 | 54    | 305    |        | 117    |        | 2   |   |   |
| 60879 | 55    | 300    | 55     | 120    |        |     |   |   |
| 67436 | 56    | 305    |        | 117    | 23     |     |   |   |
| 60880 | 60    | 320    | 60     | 130    |        | 3   |   |   |
| 60927 | 65    | 340    | 65     | 140    |        |     |   |   |
| 61283 | 67    | 335    | 67     |        | 28     |     |   |   |
| 61284 | 68    |        | 68     |        |        |     |   |   |
| 60928 | 70    |        | 70     |        | 29     | 5   |   |   |
| 61285 | 71    | 370    | 71     | 160    |        |     |   |   |
| 61286 | 72    |        | 72     |        | 30     |     |   |   |
| 60929 | 75    | 380    | 75     |        | 29     | 6   |   |   |
| 60930 | 80    |        |        |        |        |     |   |   |
| 60931 | 85    | 400    | 85     | 175    | 32     | 7   |   |   |
| 60932 | 90    |        |        |        |        | 10  |   |   |
| 60933 | 95    | 450    | 95     | 195    | 36     | 11  | 1 | - |
| 60934 | 100   |        |        |        |        |     |   |   |
| 60935 | 105   | 490    | 105    |        | 43     | 14  |   |   |
| 60936 | 110   |        |        | 230    |        |     |   |   |
| 60937 | 115   | 500    | 115    |        | 45     |     |   |   |
| 60938 | 120   |        |        |        |        |     |   |   |
| 67429 | 125   |        | 125    | 250    |        | 19  |   |   |
| 67430 | 130   | 550    |        |        | 50     |     |   |   |
| 67431 | 135   |        | 135    | 270    |        |     |   |   |
| 67432 | 140   |        |        |        |        |     |   |   |
| 67433 | 145   | 650    | 145    | 290    | 55     | 24  |   |   |
| 67434 | 150   |        | 150    |        |        |     |   |   |
| 57050 | 155   | 645    | 160    | 310    | 60     | 27  |   |   |
| 57051 | 160   |        |        |        |        |     |   |   |
| 57052 | 165   | 705    | 170    | 330    |        | 30  |   |   |
| 57053 | 170   |        |        |        | 65     |     |   |   |
| 57054 | 175   | 720    | 180    | 350    |        | 33  |   |   |
| 57055 | 180   |        |        |        |        |     |   |   |
| 57056 | 185   | 755    | 190    | 370    |        | 39  |   |   |
| 57057 | 190   |        |        |        | 70     |     |   |   |
| 57058 | 195   | 760    | 200    | 390    |        | 46  |   |   |
| 57059 | 200   |        |        |        |        | 50  |   |   |



DIN 133



**INCH**


| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Kg  |   |   |  |
|-------|---------|--------|--------|--------|--------|-----|---|---|--|
| 67437 | 3/4     | 125    |        | 41     | 7      | 0,1 |   |   |  |
| 67438 | 7/8     | 135    | 12     | 47     |        | 0,2 |   |   |  |
| 67439 | 15/16   | 150    |        | 50     | 8      |     |   |   |  |
| 60966 | 1       |        |        |        |        | 0,4 | 5 | • |  |
| 60967 | 1.1/16  | 165    | 14     | 60     | 9      |     |   |   |  |
| 67440 | 1.1/8   |        |        |        |        | 0,5 |   |   |  |
| 60968 | 1.3/16  |        |        |        |        |     |   |   |  |
| 60969 | 1.1/4   | 190    | 16     | 70     | 10     | 0,6 |   |   |  |
| 67441 | 1.5/16  |        |        |        |        |     |   |   |  |
| 67442 | 1.3/8   | 210    | 17     | 75     |        | 0,7 |   |   |  |
| 67443 | 1.7/16  |        |        |        |        | 0,8 |   |   |  |
| 67444 | 1.1/2   | 220    | 18     | 80     | 12     |     |   |   |  |
| 67445 | 1.9/16  |        |        |        |        | 0,9 |   |   |  |
| 60970 | 1.5/8   | 230    | 19     | 90     |        |     |   |   |  |
| 67446 | 1.11/16 |        |        |        |        |     |   |   |  |
| 67447 | 1.3/4   |        |        |        |        |     |   |   |  |
| 60971 | 1.13/16 | 250    | 20     | 100    | 13     | 1,2 |   |   |  |
| 67448 | 1.7/8   |        |        |        |        |     |   |   |  |
| 67449 | 1.15/16 |        |        |        |        | 1,4 |   |   |  |
| 60972 | 2       | 280    | 21     | 110    |        |     |   |   |  |
| 67450 | 2.1/16  |        |        |        | 14     |     |   |   |  |
| 67451 | 2.1/8   | 310    | 23     | 120    |        | 1,8 |   |   |  |
| 67452 | 2.3/16  |        |        |        |        |     |   |   |  |
| 67453 | 2.1/4   |        |        |        |        |     |   |   |  |
| 67454 | 2.5/16  |        |        |        |        |     |   |   |  |
| 60973 | 2.3/8   |        |        | 130    | 15     | 2,1 |   |   |  |
| 67455 | 2.7/16  | 320    | 24     |        |        |     |   |   |  |
| 67456 | 2.1/2   |        |        |        |        |     |   |   |  |
| 60974 | 2.9/16  |        |        | 135    | 16     | 2,9 |   |   |  |
| 67457 | 2.5/8   |        |        |        |        |     |   |   |  |
| 67458 | 2.11/16 |        |        |        |        |     |   |   |  |
| 60975 | 2.3/4   | 330    | 26     | 140    | 17     | 3,6 | 1 | - |  |
| 67459 | 2.13/16 |        |        |        |        |     |   |   |  |
| 67460 | 2.7/8   |        |        |        |        |     |   |   |  |
| 60976 | 2.15/16 | 340    | 28     | 150    | 18     | 4   |   |   |  |
| 60977 | 3       |        |        |        |        |     |   |   |  |
| 67461 | 3.1/16  | 360    | 29     | 160    | 19     |     |   |   |  |
| 60978 | 3.1/8   |        |        |        |        |     |   |   |  |
| 58093 | 3.3/16  | 200    | 85     | 174    | 18     | 5,5 |   |   |  |
| 67462 | 3.1/4   |        |        |        |        |     |   |   |  |
| 67463 | 3.5/16  | 360    | 29     | 160    | 19     |     |   |   |  |
| 67464 | 3.3/8   |        |        |        |        |     |   |   |  |
| 67465 | 3.7/16  |        |        |        |        |     |   |   |  |
| 67466 | 3.1/2   |        |        |        |        |     |   |   |  |
| 67467 | 3.9/16  | 400    | 33     | 185    | 22     | 7   |   |   |  |
| 67468 | 3.5/8   |        |        |        |        |     |   |   |  |
| 67469 | 3.11/16 |        |        |        |        |     |   |   |  |
| 60979 | 3.3/4   |        |        |        |        |     |   |   |  |
| 67470 | 3.13/16 |        |        |        |        |     |   |   |  |
| 67471 | 3.7/8   |        |        |        |        |     |   |   |  |
| 67472 | 3.15/16 |        |        |        |        |     |   |   |  |
| 60980 | 4       | 430    | 40     | 200    | 24     | 11  |   |   |  |
| 67473 | 4.1/16  |        |        |        |        |     |   |   |  |
| 60981 | 4.1/8   |        |        |        |        |     |   |   |  |
| 67474 | 4.3/16  |        |        |        |        |     |   |   |  |

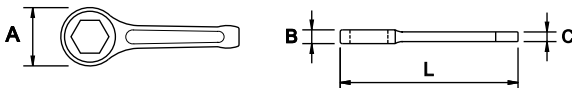


| COD.  | AP inch | L (mm) | A (mm) | B (mm) | C (mm) | Kg |   |   |
|-------|---------|--------|--------|--------|--------|----|---|---|
| 67475 | 4.1/4   |        |        |        |        |    |   |   |
| 67476 | 4.5/16  |        |        |        |        |    |   |   |
| 67477 | 4.3/8   | 500    | 45     | 240    | 25     | 14 |   |   |
| 60982 | 4.1/2   |        |        |        |        |    |   |   |
| 67478 | 4.9/16  |        |        |        |        |    |   |   |
| 67479 | 4.5/8   |        |        |        |        |    |   |   |
| 67480 | 4.11/16 |        |        |        |        |    |   |   |
| 67481 | 4.3/4   |        |        |        |        |    |   |   |
| 67482 | 4.13/16 |        |        | 250    | 27     | 16 |   |   |
| 67483 | 4.7/8   |        |        |        |        |    |   |   |
| 67484 | 4.15/16 | 550    | 50     |        |        |    |   |   |
| 67485 | 5       |        |        |        |        |    |   |   |
| 67486 | 5.1/4   |        |        |        |        |    |   |   |
| 67487 | 5.5/16  |        |        | 270    | 30     | 18 |   |   |
| 67488 | 5.3/8   |        |        |        |        |    |   |   |
| 67489 | 5.1/2   |        |        |        |        |    |   |   |
| 67490 | 5.3/4   | 650    | 55     | 290    | 32     | 24 |   |   |
| 67491 | 6       |        |        |        |        |    |   |   |
| 58075 | 6.1/8   |        |        |        |        |    | 1 | - |
| 58076 | 6.1/4   | 645    | 160    | 305    | 60     | 28 |   |   |
| 58077 | 6.3/8   |        |        |        |        |    |   |   |
| 58078 | 6.1/2   |        |        |        |        |    |   |   |
| 58079 | 6.9/16  | 705    | 170    | 325    |        | 34 |   |   |
| 58080 | 6.5/8   |        |        |        |        |    |   |   |
| 58081 | 6.3/4   |        |        |        | 65     |    |   |   |
| 58082 | 6.7/8   |        |        |        |        |    |   |   |
| 58083 | 7       | 720    | 180    | 345    |        | 38 |   |   |
| 58084 | 7.1/8   |        |        |        |        |    |   |   |
| 58085 | 7.1/4   |        |        |        |        |    |   |   |
| 58086 | 7.3/8   | 755    | 190    | 365    |        | 42 |   |   |
| 58087 | 7.1/2   |        |        |        |        |    |   |   |
| 58088 | 7.5/8   |        |        |        | 70     |    |   |   |
| 58089 | 7.9/16  |        |        |        |        |    |   |   |
| 58090 | 7.3/4   | 770    | 200    | 385    |        | 48 |   |   |
| 58091 | 7.7/8   |        |        |        |        |    |   |   |
| 58092 | 8       |        |        |        |        |    |   |   |

DIN 133

**ESTRELLA DE GOLPE / SLOGGING RING / POLYGONALE À FRAPPER / SCHLAG RINGSCHLÜSSEL / POLIGONALE AD IMPULSO / LUNETTA DE IMPACTO / УДАРНЫЙ КЛЮЧ ЗВЕЗДОЧКА**

MM



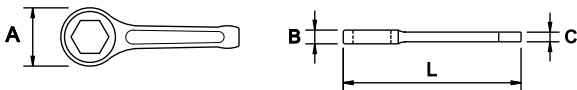
| COD.  | AP mm | L (mm) | A (mm) | B (mm) | C (mm) | Kg  |   |   |
|-------|-------|--------|--------|--------|--------|-----|---|---|
| 68927 | 17    |        |        |        |        |     |   |   |
| 68928 | 19    |        |        |        |        |     |   |   |
| 68929 | 22    | 155    | 38     | 13     | 8      | 0,2 |   |   |
| 68930 | 24    | 165    | 42     | 14     | 9      |     |   |   |
| 68931 | 27    | 175    | 46     |        | 10     | 0,3 |   |   |
| 68932 | 30    | 185    | 50     | 16     |        | 0,4 | 5 | • |
| 68933 | 32    |        | 55     |        | 11     | 0,5 |   |   |
| 68934 | 36    | 210    | 60     | 19     |        | 0,6 |   |   |
| 68935 | 41    | 230    | 65     | 20     | 12     | 0,7 |   |   |
| 68936 | 46    | 240    | 75     | 22     | 13     | 1   |   |   |
| 68937 | 50    | 250    | 80     | 23     |        | 1,2 |   |   |
| 68938 | 55    | 270    | 85     | 24     | 14     | 1,4 |   |   |
| 68939 | 60    |        | 90     | 26     | 15     | 1,6 | 1 | - |
| 68940 | 65    | 300    | 100    | 30     | 16     | 1,9 |   |   |
| 68941 | 70    | 320    | 105    | 32     | 17     | 2,3 |   |   |



| COD.  | AP mm | L (mm) | A (mm) | B (mm) | C (mm) | Kg  |   |   |
|-------|-------|--------|--------|--------|--------|-----|---|---|
| 68942 | 75    | 330    | 115    | 33     | 18     | 2,9 |   |   |
| 68943 | 80    | 350    | 125    | 34     | 19     | 3,6 |   |   |
| 68944 | 85    | 360    | 130    | 36     | 20     | 3,9 |   |   |
| 68945 | 90    | 380    | 135    | 39     | 23     | 4,8 |   |   |
| 68946 | 100   | 410    | 148    | 43     | 25     | 5,8 |   |   |
| 68947 | 110   | 450    | 170    | 45     | 28     | 8   | 1 | - |
| 68948 | 120   | 480    | 180    | 50     | 30     | 10  |   |   |
| 68949 | 130   | 510    | 200    | 55     | 31     | 12  |   |   |
| 68950 | 140   | 520    | 210    |        |        |     |   |   |
| 68951 | 150   | 570    | 220    | 60     | 32     | 14  |   |   |
| 68952 | 160   | 590    | 240    |        | 33     | 16  |   |   |

DIN 7444

## INCH



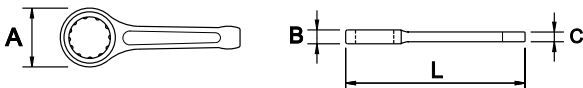
| COD.  | AP inch | L (mm) | A (mm) | B (mm) | C (mm) | Kg  |   |   |
|-------|---------|--------|--------|--------|--------|-----|---|---|
| 68687 | 5/8     | 145    | 32     | 12     | 7      |     |   |   |
| 68614 | 3/4     |        |        |        |        | 0,2 |   |   |
| 68615 | 7/8     | 155    | 38     | 13     | 8      |     |   |   |
| 68616 | 15/16   | 165    | 42     | 14     | 9      |     |   |   |
| 68617 | 1       | 175    | 46     |        | 10     | 0,3 |   |   |
| 68618 | 1.1/16  |        |        | 16     |        |     |   |   |
| 68619 | 1.1/8   |        | 50     |        |        | 0,4 | 5 | • |
| 68620 | 1.3/16  | 185    |        |        |        |     |   |   |
| 68621 | 1.1/4   |        | 55     |        | 11     |     |   |   |
| 68622 | 1.5/16  |        |        | 18     |        | 0,5 |   |   |
| 68623 | 1.3/8   | 210    |        | 19     |        |     |   |   |
| 68624 | 1.7/16  |        | 60     |        |        |     |   |   |
| 68625 | 1.1/2   | 220    |        |        |        |     |   |   |
| 68626 | 1.9/16  |        |        | 20     | 12     | 0,7 |   |   |
| 68627 | 1.5/8   | 230    | 65     |        |        |     |   |   |
| 68628 | 1.11/16 |        |        |        |        |     |   |   |
| 68629 | 1.3/4   |        |        |        |        |     |   |   |
| 68630 | 1.13/16 | 240    | 75     | 22     | 13     |     |   |   |
| 68631 | 1.7/8   |        |        |        |        | 1   |   |   |
| 68632 | 1.15/16 | 250    | 80     | 23     |        |     |   |   |
| 68633 | 2       |        |        |        |        |     |   |   |
| 68634 | 2.1/16  |        |        |        | 14     |     |   |   |
| 68635 | 2.1/8   |        | 85     | 24     |        | 1,4 |   |   |
| 68636 | 2.3/16  |        |        |        |        |     |   |   |
| 68637 | 2.1/4   | 270    |        |        |        |     |   |   |
| 68638 | 2.5/16  |        |        |        |        |     |   |   |
| 68639 | 2.3/8   |        | 90     | 26     | 15     | 1,6 |   |   |
| 68640 | 2.7/16  |        |        |        |        |     | 1 | - |
| 68641 | 2.1/2   |        |        |        |        |     |   |   |
| 68642 | 2.9/16  | 300    | 100    | 30     | 16     | 2,3 |   |   |
| 68643 | 2.5/8   |        |        |        |        |     |   |   |
| 68644 | 2.11/16 |        |        |        |        |     |   |   |
| 68645 | 2.3/4   | 320    | 110    | 32     | 17     | 2,5 |   |   |
| 68646 | 2.13/16 |        |        |        |        |     |   |   |
| 68647 | 2.7/8   |        |        |        |        |     |   |   |
| 68648 | 2.15/16 | 330    | 115    | 33     | 18     | 3,2 |   |   |
| 68649 | 3       |        |        |        |        |     |   |   |
| 68650 | 3.1/16  | 350    | 125    | 34     | 19     | 3,6 |   |   |
| 68651 | 3.1/8   |        |        |        |        |     |   |   |
| 68652 | 3.1/4   |        |        |        |        |     |   |   |
| 68653 | 3.5/16  | 360    | 130    | 36     | 20     | 3,9 |   |   |



| COD.  | AP inch | L (mm) | A (mm) | B (mm) | C (mm) | Kg  |   |   |
|-------|---------|--------|--------|--------|--------|-----|---|---|
| 68654 | 3.3/8   | 360    | 130    | 36     | 20     | 3,9 |   |   |
| 68655 | 3.1/2   | 380    | 135    |        |        | 4,8 |   |   |
| 68656 | 3.9/16  |        |        |        |        |     |   |   |
| 68657 | 3.5/8   |        |        | 39     | 23     |     |   |   |
| 68658 | 3.11/16 | 390    | 140    |        |        | 5,2 |   |   |
| 68659 | 3.3/4   |        |        |        |        |     |   |   |
| 68660 | 3.13/16 |        |        |        |        |     |   |   |
| 68661 | 3.7/8   | 410    | 150    |        |        | 5,8 |   |   |
| 68662 | 3.15/16 |        |        | 43     | 25     |     |   |   |
| 68663 | 4       |        |        |        |        |     |   |   |
| 68664 | 4.1/16  | 420    | 155    |        |        | 6,5 |   |   |
| 68665 | 4.1/8   |        |        |        |        |     |   |   |
| 68666 | 4.3/16  |        |        |        |        |     |   |   |
| 68667 | 4.1/4   |        |        |        |        |     |   |   |
| 68668 | 4.5/16  | 450    | 160    | 45     | 28     | 8   |   |   |
| 68669 | 4.3/8   |        |        |        |        |     | 1 | - |
| 68670 | 4.1/2   |        |        |        |        |     |   |   |
| 68671 | 4.9/16  |        | 170    |        |        | 9,6 |   |   |
| 68672 | 4.5/8   |        |        |        |        |     |   |   |
| 68673 | 4.11/16 |        |        |        |        |     |   |   |
| 68674 | 4.3/4   | 480    | 180    | 50     | 30     | 11  |   |   |
| 68675 | 4.13/16 |        |        |        |        |     |   |   |
| 68676 | 4.7/8   |        |        |        |        |     |   |   |
| 68677 | 4.15/16 |        |        |        |        |     |   |   |
| 68678 | 5       |        |        |        |        |     |   |   |
| 68679 | 5.1/4   |        | 200    | 55     | 31     |     |   |   |
| 68680 | 5.5/16  | 520    |        |        |        | 12  |   |   |
| 68681 | 5.3/8   |        |        |        |        |     |   |   |
| 68682 | 5.1/2   |        | 210    |        |        |     |   |   |
| 68683 | 5.3/4   | 570    |        | 60     | 32     | 14  |   |   |
| 68684 | 6       | 590    | 220    |        |        | 16  |   |   |

DIN 7444

■ MM



| COD.  | AP mm | L (mm) | A (mm) | B (mm) | C (mm) | Kg  |   |   |
|-------|-------|--------|--------|--------|--------|-----|---|---|
| 67310 | 17    |        |        |        |        |     |   |   |
| 67311 | 18    | 145    | 32     | 12     | 7      |     |   |   |
| 67312 | 19    |        |        |        |        |     |   |   |
| 67313 | 20    |        |        |        |        |     |   |   |
| 67314 | 21    |        | 38     | 13     | 8      |     |   |   |
| 67315 | 22    | 155    |        |        |        | 0,2 |   |   |
| 67316 | 23    |        |        |        |        |     |   |   |
| 60881 | 24    | 165    | 42     | 14     | 8,5    |     |   |   |
| 67317 | 25    |        |        |        |        |     |   |   |
| 60904 | 26    |        |        |        |        |     |   |   |
| 60882 | 27    | 175    | 46     |        | 9,5    |     | 5 | ● |
| 67318 | 28    |        |        |        |        | 0,3 |   |   |
| 67319 | 29    |        |        | 16     |        |     |   |   |
| 60883 | 30    | 185    | 50     |        |        | 0,4 |   |   |
| 67320 | 31    |        |        |        |        |     |   |   |
| 60884 | 32    |        | 55     |        | 11     |     |   |   |
| 67321 | 33    |        |        |        |        |     |   |   |
| 67322 | 34    | 210    |        | 18     |        | 0,5 |   |   |
| 67323 | 35    |        |        |        |        |     |   |   |
| 60885 | 36    |        | 60     | 19     |        |     |   |   |
| 67324 | 37    | 220    |        | 20     | 12     | 0,6 |   |   |

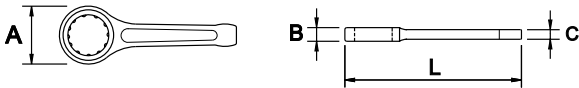


| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Kg  |   |  |
|-------|-------|--------|--------|--------|--------|-----|---|--|
| 67325 | 38    | 220    | 60     |        |        | 0,7 |   |  |
| 67274 | 39    | 215    | 61     | 20     | 12     | 0,6 |   |  |
| 60886 | 41    | 225    | 65     |        |        |     | 5 |  |
| 60887 | 42    |        |        |        |        | 0,7 |   |  |
| 67326 | 45    |        |        |        |        |     |   |  |
| 60888 | 46    | 240    | 75     | 22     | 13     |     |   |  |
| 67327 | 47    |        |        |        |        | 1   |   |  |
| 67422 | 48    |        |        |        |        |     |   |  |
| 60889 | 50    | 250    | 80     | 23     |        |     |   |  |
| 67328 | 52    |        |        |        | 14     | 1,2 |   |  |
| 67329 | 54    |        |        |        |        |     |   |  |
| 60890 | 55    |        | 85     |        |        |     |   |  |
| 67330 | 56    |        |        | 24     |        | 1,4 |   |  |
| 67331 | 58    |        |        |        |        |     |   |  |
| 67332 | 59    | 270    |        |        |        |     |   |  |
| 60891 | 60    |        | 90     |        | 15     |     |   |  |
| 67333 | 61    |        |        | 26     |        | 1,6 |   |  |
| 67334 | 62    |        |        |        |        |     |   |  |
| 67335 | 63    |        |        |        |        |     |   |  |
| 67336 | 64    | 300    | 100    |        | 16     |     |   |  |
| 60939 | 65    |        |        | 30     |        | 1,9 |   |  |
| 67337 | 66    |        |        |        |        |     |   |  |
| 67338 | 67    |        |        |        |        |     |   |  |
| 67339 | 68    |        |        |        |        |     |   |  |
| 67340 | 69    | 320    | 110    | 32     | 17     | 2,3 |   |  |
| 60940 | 70    |        |        |        |        |     |   |  |
| 67341 | 71    |        |        |        |        |     |   |  |
| 67342 | 72    |        |        |        |        |     |   |  |
| 67343 | 73    |        |        |        |        |     |   |  |
| 67499 | 74    |        |        |        |        |     |   |  |
| 60941 | 75    | 330    | 115    | 33     | 18     | 2,9 |   |  |
| 67344 | 76    |        |        |        |        |     |   |  |
| 67345 | 77    |        |        |        |        |     |   |  |
| 67346 | 78    |        |        |        |        |     |   |  |
| 67347 | 79    | 350    | 125    | 34     | 19     | 3,6 | 1 |  |
| 60942 | 80    |        |        |        |        |     |   |  |
| 67348 | 82    |        |        |        |        |     |   |  |
| 67492 | 84    | 360    | 130    | 36     | 20     | 3,9 |   |  |
| 60943 | 85    |        |        |        |        |     |   |  |
| 67349 | 88    | 380    | 135    |        |        |     |   |  |
| 60944 | 90    |        |        | 39     | 23     | 5   |   |  |
| 67350 | 94    | 390    | 145    |        |        |     |   |  |
| 60945 | 95    |        |        |        |        |     |   |  |
| 67351 | 98    |        |        |        |        |     |   |  |
| 60946 | 100   | 410    | 150    |        |        | 6   |   |  |
| 67308 | 102   |        |        | 43     | 25     |     |   |  |
| 60947 | 105   |        |        |        |        | 6,5 |   |  |
| 67309 | 107   | 420    | 155    |        |        | 7,0 |   |  |
| 67368 | 108   |        |        |        |        |     |   |  |
| 60948 | 110   | 450    | 170    | 45     | 28     | 8,0 |   |  |
| 60949 | 115   |        |        |        |        | 9,5 |   |  |
| 60950 | 120   | 480    | 180    | 50     | 30     | 10  |   |  |
| 67352 | 125   |        |        |        |        |     |   |  |
| 67353 | 130   | 510    | 195    | 55     | 31     | 12  |   |  |
| 67354 | 135   |        |        |        |        |     |   |  |
| 67355 | 140   | 520    | 210    |        |        |     |   |  |
| 67356 | 145   |        |        |        |        |     |   |  |
| 67357 | 150   | 570    | 220    | 60     | 32     | 14  |   |  |
| 67358 | 155   |        |        |        |        |     |   |  |
| 67359 | 160   | 590    | 240    |        | 33     | 16  |   |  |
| 67360 | 165   |        |        |        |        |     |   |  |
| 67361 | 170   | 650    | 270    | 65     | 34     | 25  |   |  |

| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Kg |   |   |
|-------|-------|--------|--------|--------|--------|----|---|---|
| 67362 | 175   | 650    | 270    | 65     | 34     | 25 |   |   |
| 67363 | 180   |        |        |        |        |    |   |   |
| 67364 | 185   | 690    | 280    | 70     |        | 33 | 1 | - |
| 67365 | 190   |        |        |        | 35     |    |   |   |
| 67366 | 195   | 710    | 300    | 75     |        | 36 |   |   |
| 67367 | 200   |        |        |        |        |    |   |   |

DIN 7444

## INCH



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Kg  |   |   |
|-------|---------|--------|--------|--------|--------|-----|---|---|
| 67369 | 1/2     | 100    | 24     | 9      | 5      | 0,1 |   |   |
| 67370 | 3/4     | 145    | 32     | 12     | 7      |     |   |   |
| 67371 | 7/8     | 155    | 38     | 13     | 8      | 0,2 |   |   |
| 67372 | 15/16   | 165    | 42     | 14     | 9      |     |   |   |
| 60983 | 1       | 175    | 46     |        | 10     | 0,3 |   |   |
| 60984 | 1.1/16  |        |        |        |        |     |   |   |
| 67373 | 1.1/8   |        | 50     | 16     |        | 0,4 |   |   |
| 60985 | 1.3/16  | 185    |        |        |        |     |   |   |
| 60986 | 1.1/4   |        | 55     |        | 11     |     | 5 | • |
| 67374 | 1.5/16  |        |        | 18     |        | 0,5 |   |   |
| 61294 | 1.3/8   | 210    |        |        |        |     |   |   |
| 67375 | 1.7/16  |        | 60     | 19     |        |     |   |   |
| 61295 | 1.1/2   | 220    |        |        |        |     |   |   |
| 61296 | 1.9/16  |        |        | 20     | 12     | 0,7 |   |   |
| 60987 | 1.5/8   | 230    | 65     | 20     |        |     |   |   |
| 67376 | 1.11/16 |        |        |        |        |     |   |   |
| 67377 | 1.3/4   |        |        |        |        |     |   |   |
| 60988 | 1.13/16 | 240    | 75     | 22     | 13     |     |   |   |
| 67378 | 1.7/8   |        |        |        |        | 1   |   |   |
| 67379 | 1.15/16 | 250    | 80     | 23     |        |     |   |   |
| 60989 | 2       |        |        |        |        |     |   |   |
| 67380 | 2.1/16  |        |        |        | 14     |     |   |   |
| 67381 | 2.1/8   |        | 85     | 24     |        | 1,4 |   |   |
| 67382 | 2.3/16  |        |        |        |        |     |   |   |
| 67383 | 2.1/4   | 270    |        |        |        |     |   |   |
| 67384 | 2.5/16  |        | 90     | 26     | 15     | 1,6 |   |   |
| 60990 | 2.3/8   |        |        |        |        |     |   |   |
| 67385 | 2.7/16  |        |        |        |        |     |   |   |
| 67386 | 2.1/2   |        |        |        |        |     |   |   |
| 60991 | 2.9/16  | 300    | 100    | 28     | 16     | 2,3 |   |   |
| 67387 | 2.5/8   |        |        |        |        |     |   |   |
| 67388 | 2.11/16 |        |        |        |        |     |   |   |
| 60992 | 2.3/4   | 320    | 110    | 32     | 17     | 2,5 | 1 | - |
| 67389 | 2.13/16 |        |        |        |        |     |   |   |
| 67390 | 2.7/8   |        |        |        |        |     |   |   |
| 60993 | 2.15/16 | 330    | 115    | 33     | 18     | 3,2 |   |   |
| 60994 | 3       |        |        |        |        |     |   |   |
| 67391 | 3.1/16  | 350    | 125    | 34     | 19     | 3,6 |   |   |
| 60995 | 3.1/8   |        |        |        |        |     |   |   |
| 58071 | 3.3/16  | 355    | 124    |        |        | 3,6 |   |   |
| 67392 | 3.1/4   |        |        |        |        |     |   |   |
| 67393 | 3.5/16  | 360    | 130    | 36     | 20     | 3,9 |   |   |
| 67394 | 3.3/8   |        |        |        |        |     |   |   |
| 68570 | 3.7/16  |        |        |        |        |     |   |   |
| 67395 | 3.1/2   | 380    | 135    | 39     | 23     | 4,8 |   |   |
| 67396 | 3.9/16  |        |        |        |        |     |   |   |

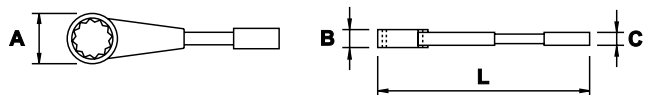


| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Kg   |   |   |
|-------|---------|--------|--------|--------|--------|------|---|---|
| 67397 | 3.5/8   |        |        |        |        |      |   |   |
| 67398 | 3.11/16 | 390    | 140    | 39     | 23     | 5,2  |   |   |
| 60996 | 3.3/4   |        |        |        |        |      |   |   |
| 67399 | 3.13/16 |        |        |        |        |      |   |   |
| 67400 | 3.7/8   | 410    | 150    |        |        | 5,8  |   |   |
| 67401 | 3.15/16 |        |        | 43     | 25     |      |   |   |
| 60997 | 4       |        |        |        |        |      |   |   |
| 67402 | 4.1/16  | 420    | 155    |        |        | 6,5  |   |   |
| 60998 | 4.1/8   |        |        |        |        |      |   |   |
| 67403 | 4.3/16  |        |        |        |        |      |   |   |
| 67404 | 4.1/4   |        | 160    |        |        | 8    |   |   |
| 67405 | 4.5/16  | 450    |        | 45     | 28     |      |   |   |
| 67406 | 4.3/8   |        |        |        |        |      |   |   |
| 60999 | 4.1/2   |        | 170    |        |        | 9,6  |   |   |
| 67407 | 4.9/16  |        |        |        |        |      |   |   |
| 67408 | 4.5/8   |        |        |        |        |      |   |   |
| 67409 | 4.11/16 |        |        |        |        |      |   |   |
| 67410 | 4.3/4   | 480    | 180    | 50     | 30     | 11   |   |   |
| 67411 | 4.13/16 |        |        |        |        |      |   |   |
| 67412 | 4.7/8   |        |        |        |        |      |   |   |
| 67413 | 4.15/16 |        |        |        |        |      |   |   |
| 67414 | 5       |        |        |        |        |      |   |   |
| 67415 | 5.1/4   |        | 200    | 55     | 31     |      | 1 | - |
| 67416 | 5.5/16  | 520    |        |        |        | 12   |   |   |
| 67417 | 5.3/8   |        | 210    |        |        |      |   |   |
| 67418 | 5.1/2   |        |        | 60     |        |      |   |   |
| 67419 | 5.3/4   | 570    |        |        | 32     | 14   |   |   |
| 67420 | 6       | 590    | 220    |        |        | 16   |   |   |
| 57136 | 6.1/8   | 565    |        |        |        | 13,7 |   |   |
| 57139 | 6.1/4   |        |        |        |        |      |   |   |
| 58055 | 6.3/8   | 585    | 240    | 58     | 33     | 16   |   |   |
| 58056 | 6.1/2   |        |        |        |        |      |   |   |
| 58057 | 6.9/16  |        |        |        |        |      |   |   |
| 58058 | 6.5/8   |        |        |        |        |      |   |   |
| 58059 | 6.3/4   | 645    | 265    | 64     | 34     | 25   |   |   |
| 58060 | 6.7/8   |        |        |        |        |      |   |   |
| 58061 | 7       |        |        |        |        |      |   |   |
| 58062 | 7.1/8   |        |        |        |        |      |   |   |
| 58063 | 7.1/4   | 685    | 285    | 70     |        | 33   |   |   |
| 58064 | 7.3/8   |        |        |        |        |      |   |   |
| 58065 | 7.1/2   |        |        |        | 35     |      |   |   |
| 58066 | 7.9/16  |        |        |        |        |      |   |   |
| 58067 | 7.5/8   |        |        |        |        |      |   |   |
| 58068 | 7.3/4   | 710    | 295    | 75     |        | 36   |   |   |
| 58069 | 7.7/8   |        |        |        |        |      |   |   |
| 58070 | 8       |        |        |        |        |      |   |   |

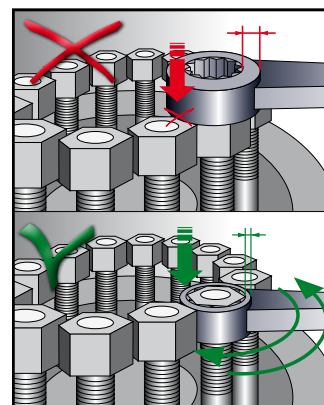
DIN 7444

**LLAVES ESTRELLA DE GOLPE DE PARED FINA / SLOGGING RING WRENCH THIN WALL / CLÉS POLYGAONALES À FRAPPER À PAROI FINE / SCHLAGRINGSCHLÜSSEL DUNNWANDIG / CHIAVE POLIGONALI IMPACT PARETE FINA / CHAVES LUNETA DE PANCADA DE PAREDE FINA / КЛЮЧ НАКИДНОЙ УДАРНЫЙ ТОНКОСТЕННЫЙ**

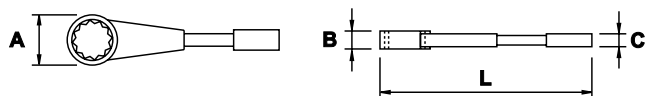
■ MM



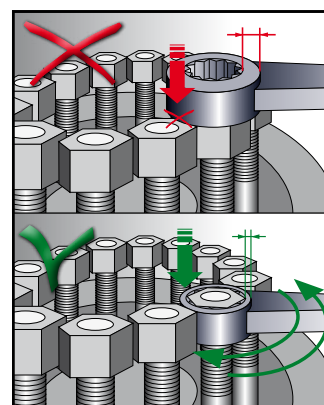
| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Kg   |   |   |
|-------|-------|--------|--------|--------|--------|------|---|---|
| 56300 | 27    | 250    | 43     | 16     | 17     | 0,6  |   |   |
| 56301 | 30    | 256    | 47     | 18     | 19     | 0,75 |   |   |
| 56302 | 32    | 260    | 49     | 19     |        |      |   |   |
| 56303 | 36    | 270    | 55     | 22     | 21     | 1,05 | 5 | ● |
| 56304 | 41    | 278    | 61     | 24     | 23     | 1,25 |   |   |
| 56305 | 46    | 287    | 67     | 26     | 24     | 1,50 |   |   |
| 56306 | 50    | 296    | 72     | 28     | 25     | 1,75 |   |   |
| 56307 | 55    | 303    | 78     | 30     | 27     | 2    |   |   |
| 56308 | 60    | 315    | 85     | 33     | 28     | 2,35 |   |   |
| 56309 | 65    | 322    | 93     | 35     | 29     | 2,65 |   |   |
| 56310 | 70    | 325    | 99     | 37     | 30     | 2,9  |   |   |
| 56311 | 75    | 338    | 106    | 39     | 31     | 3,3  |   |   |
| 56312 | 80    | 348    | 112    | 42     | 32     | 3,7  |   |   |
| 56313 | 85    | 350    | 119    | 43     |        | 4    | 1 | - |
| 56314 | 90    | 353    | 126    |        | 33     | 4,25 |   |   |
| 56315 | 95    | 358    | 133    | 44     |        | 4,6  |   |   |
| 56316 | 100   | 366    | 139    |        |        | 4,9  |   |   |
| 56317 | 105   | 375    | 147    |        |        | 6,5  |   |   |
| 56318 | 110   | 382    | 157    | 45     | 34     | 7,2  |   |   |
| 56319 | 115   | 390    | 163    |        |        | 8    |   |   |
| 56320 | 120   | 405    | 174    | 47     | 35     |      |   |   |



■ INCH



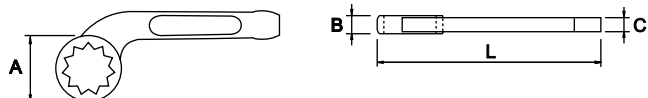
| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Kg   |   |   |
|-------|---------|--------|--------|--------|--------|------|---|---|
| 56321 | 1.1/16  | 250    | 43     | 16     | 17     | 0,6  |   |   |
| 56322 | 1.1/4   | 260    | 49     | 19     |        | 0,75 |   |   |
| 56323 | 1.7/16  | 270    | 55     | 22     | 21     | 1,05 | 5 | ● |
| 56324 | 1.5/8   | 278    | 61     | 24     | 22.5   | 1,25 |   |   |
| 56325 | 1.13/16 | 287    | 67     | 26     | 24     | 1,5  |   |   |
| 56326 | 2       | 296    | 72     | 28     | 25     | 1,75 |   |   |
| 56327 | 2.3/16  | 303    | 78     | 30     | 26.5   | 2    |   |   |
| 56328 | 2.3/8   | 315    | 85     | 33     | 28     | 2,35 |   |   |
| 56329 | 2.9/16  | 322    | 93     | 35     | 29     | 2,65 |   |   |
| 56330 | 2.3/4   | 325    | 99     | 37     | 30     | 2,9  | 1 | - |
| 56331 | 2.15/16 | 338    | 106    | 39     | 31     | 3,3  |   |   |
| 56332 | 3.1/8   | 348    | 112    | 42     | 32     | 3,7  |   |   |
| 56333 | 3.1/2   | 353    | 126    | 44     | 33     | 4,25 |   |   |
| 56334 | 3.7/8   | 366    | 139    |        |        | 4,9  |   |   |





**LLAVE ESTRELLA DE GOLPE CURVA / CURVED SLOGGING RING WRENCH / CLÉ POLYGONALE À FRAPPER COURBÉE / ZUGSCHLAGRINGSCHLÜSSEL, GEBOGEN / POLIGONALE AD IMPULSO A CURVA / CHAVE LUNETA CURVA DE PANCADA / УДАРНЫЙ ИЗОГНУТЫЙ РОЖКОВЫЙ КЛЮЧ**

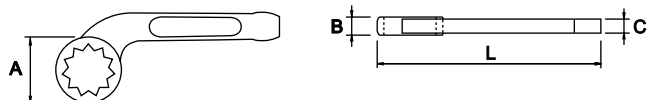
MM



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | g    |   |  |
|-------|-------|--------|--------|--------|--------|------|---|--|
| 58360 | 19    |        |        |        |        |      |   |  |
| 58361 | 20    | 160    |        |        | 8,5    |      |   |  |
| 58362 | 21    |        |        |        |        |      |   |  |
| 54950 | 22    | 140    | 42     | 14     | 9      | 250  |   |  |
| 58363 | 23    |        |        |        | 8,5    |      |   |  |
| 54951 | 24    | 160    |        |        | 9      |      |   |  |
| 58364 | 25    |        |        |        | 8,5    |      |   |  |
| 58365 | 26    |        |        |        | 9,5    |      |   |  |
| 54952 | 27    | 175    | 46     |        | 10     | 330  |   |  |
| 58366 | 28    |        |        | 16     | 9,5    |      |   |  |
| 58367 | 29    |        | 54     |        | 10,5   |      |   |  |
| 54953 | 30    | 190    | 55     |        |        | 515  |   |  |
| 54954 | 32    |        |        |        |        |      |   |  |
| 58368 | 34    | 210    | 58     |        | 11     | 630  | 1 |  |
| 54955 | 36    |        | 60     | 19     |        |      |   |  |
| 58369 | 38    | 225    | 64     |        |        |      |   |  |
| 58370 | 40    |        |        | 20     | 12     | 870  |   |  |
| 54956 | 41    | 230    | 65     |        |        |      |   |  |
| 58371 | 42    | 225    | 64     |        |        |      |   |  |
| 54957 | 46    | 240    | 75     | 22     | 13     | 1100 |   |  |
| 54958 | 50    | 260    | 80     | 23     |        | 1300 |   |  |
| 54959 | 55    | 270    | 85     | 24     | 14     | 1500 |   |  |
| 54960 | 60    | 290    | 90     | 26     | 15     | 2000 |   |  |
| 54961 | 65    | 300    | 100    | 30     | 16     | 2500 |   |  |
| 54962 | 70    | 320    | 110    | 32     | 17     | 2800 |   |  |
| 54963 | 75    | 330    | 115    | 33     | 18     | 3200 |   |  |
| 58372 | 80    | 350    | 124    | 34     | 19     | 3900 |   |  |



INCH

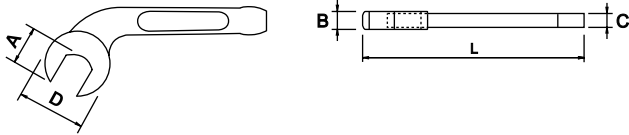


| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | g    |   |  |
|-------|---------|--------|--------|--------|--------|------|---|--|
| 58376 | 3/4     |        |        |        |        |      |   |  |
| 58377 | 7/8     | 160    | 42     | 14     | 8,5    | 250  |   |  |
| 58378 | 15/16   |        |        |        |        |      |   |  |
| 58379 | 1       | 175    | 46     |        | 9,5    | 380  |   |  |
| 58380 | 1.1/8   | 190    | 54     | 16     | 10,5   | 500  |   |  |
| 58381 | 1.1/4   |        |        |        |        |      |   |  |
| 58382 | 1.3/8   | 210    | 58     | 19     | 11     | 620  |   |  |
| 58383 | 1.1/2   | 225    | 64     | 20     | 12     | 865  | 1 |  |
| 58384 | 1.5/8   |        |        |        |        |      |   |  |
| 58385 | 1.3/4   | 240    | 73     | 22     | 13     | 1125 |   |  |
| 58386 | 1.7/8   |        |        |        |        |      |   |  |
| 58387 | 2       | 255    | 78     | 23     | 13,5   | 1250 |   |  |
| 58388 | 2.1/4   | 285    | 92     | 25,5   | 15     | 2200 |   |  |
| 58389 | 2.1/2   | 300    | 102    | 30     | 16     | 2600 |   |  |
| 58390 | 2.3/4   | 320    | 108    | 31,5   | 17     | 2800 |   |  |
| 58391 | 3       | 330    | 113    | 33     | 18     | 3150 |   |  |



**LLAVE FIJA GOLPE CURVA / CURVED OPEN END SLOGGING WRENCH / CLÉ À FOURCHE À FRAPPER COUDÉE / GEBOGEN SCHLAGMAULSCHLÜSSEL / CHIAVE FISSA A BATTERE CURVA / CHAVE DE BOCA DE PANCADA CURVA / УДАРНЫЙ ИЗОГНУТЫЙ ГАЕЧНЫЙ КЛЮЧ**

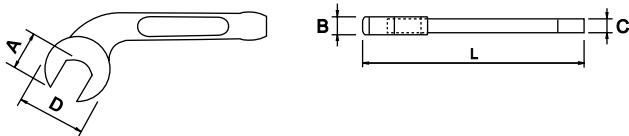
■ MM



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g    |   |
|-------|-------|--------|--------|--------|--------|--------|------|---|
| 58396 | 19    | 140    | 19     | 10     | 7      | 40,5   | 140  |   |
| 58397 | 20    |        |        |        |        |        |      |   |
| 58398 | 21    |        |        | 22     | 11     | 7,5    | 46   |   |
| 58399 | 22    | 150    |        |        |        |        |      |   |
| 58400 | 23    |        |        |        |        |        |      |   |
| 58401 | 24    |        |        | 24     | 12     | 8      | 50   |   |
| 58402 | 25    | 175    |        |        |        |        |      |   |
| 58403 | 26    |        |        |        |        |        |      |   |
| 58404 | 27    |        |        | 27     | 15     | 9      | 57   |   |
| 58405 | 28    | 190    |        |        |        |        |      |   |
| 58406 | 29    |        |        |        |        |        |      |   |
| 58407 | 30    |        |        | 30     | 16     | 10     | 66   |   |
| 58408 | 32    | 210    | 32     |        |        |        |      | 1 |
| 58409 | 34    |        |        |        |        |        |      |   |
| 58410 | 36    |        |        | 36     | 17     | 11,5   | 75   |   |
| 58411 | 38    | 230    |        |        |        |        |      |   |
| 58412 | 40    |        |        |        |        |        |      |   |
| 58413 | 41    |        |        | 41     | 18,5   | 12     | 87   |   |
| 58414 | 42    | 250    |        |        |        |        |      |   |
| 58415 | 46    |        |        |        |        |        |      |   |
| 58416 | 50    |        |        | 50     | 20,5   | 13,5   | 108  |   |
| 58417 | 55    | 305    | 55     | 23     | 14     | 117    | 2300 |   |
| 58418 | 60    | 315    | 60     | 23,5   | 15     | 128    | 2800 |   |
| 58419 | 65    | 335    | 65     | 27,5   | 16     | 140    | 3600 |   |
| 58420 | 70    | 370    | 70     | 28,5   | 17     | 155    | 4400 |   |
| 58421 | 75    | 375    | 75     | 29     | 18     | 160    | 4700 |   |
| 58422 | 80    | 400    | 80     | 32     | 19     | 175    | 6100 |   |



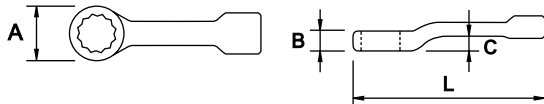
■ INCH



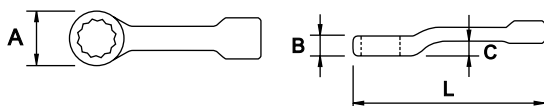
| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g    |      |
|-------|---------|--------|--------|--------|--------|--------|------|------|
| 58430 | 3/4     | 140    | 19     | 10     | 7      | 40,5   | 140  |      |
| 58431 | 7/8     | 150    |        |        |        |        |      |      |
| 58432 | 15/16   |        |        | 22     | 11     | 7,5    | 46   |      |
| 58433 | 1       | 175    | 24     | 12     | 8      | 50     | 200  |      |
| 58434 | 1.1/8   | 190    |        |        |        |        |      |      |
| 58435 | 1.1/4   |        |        | 27     | 15     | 9      | 57   |      |
| 58436 | 1.3/8   | 210    | 30     | 16     | 10     | 66     | 550  | 1    |
| 58437 | 1.1/2   | 230    |        |        |        |        |      |      |
| 58438 | 1.5/8   |        |        | 36     | 17     | 11,5   | 75   |      |
| 58439 | 1.3/4   | 250    |        |        |        |        |      | 1250 |
| 58440 | 1.7/8   |        |        | 38     | 18,5   | 12     | 87   |      |
| 58441 | 2       | 275    | 41     |        |        |        |      |      |
| 58442 | 2.1/4   | 315    | 46     | 20     | 13     | 98     |      |      |
|       |         | 275    |        |        |        |        |      | 1600 |
|       |         |        |        | 50     | 20,5   | 13,5   | 108  |      |
|       |         | 315    | 60     | 23,5   | 15     | 128    | 3100 |      |



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g    |   |
|-------|---------|--------|--------|--------|--------|--------|------|---|
| 58443 | 2.1/2   | 335    | 65     | 27,5   | 16     | 140    | 3750 |   |
| 58444 | 2.3/4   | 370    | 70     | 28,5   | 17     | 155    | 4400 | 1 |
| 58445 | 3       | 375    | 75     | 29     | 18     | 160    | 4600 |   |

**ESTRELLA DE GOLPE ACODADA / OFFSET SLOGGING RING / CLÉ POLYGONALE À FRAPPER CONTRE-COUDÉE / SCHLAGRINGSCHLÜSSEL GEKRÖPFT / CHIAVE A BATTERE POLIGONALE / LUNETTA INCLINADA DE PANCADA / КЛЮЧ НАКИДНОЙ УДАРНЫЙ**
**MM**


| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Kg  |   |   |
|-------|-------|--------|--------|--------|--------|-----|---|---|
| 55000 | 22    | 240    | 42     | 18     | 23     | 0,9 |   |   |
| 55001 | 24    |        |        |        |        |     |   |   |
| 55002 | 27    | 270    |        | 20     | 26     | 1,2 |   |   |
| 55003 | 30    | 280    | 50     | 22     | 28     | 1,4 |   |   |
| 55004 | 32    | 290    | 55     | 23     | 29     | 1,6 | 5 | • |
| 54998 | 34    |        | 62     |        |        |     |   |   |
| 55005 | 36    | 300    | 65     | 25     | 31     | 1,8 |   |   |
| 55006 | 38    |        |        |        |        |     |   |   |
| 55007 | 41    | 320    |        | 26     | 32     | 2   |   |   |
| 55008 | 46    | 340    | 70     | 27     | 34     | 2,6 |   |   |
| 55009 | 50    | 350    | 80     | 32     | 38     | 3   |   |   |
| 55010 | 55    | 360    | 85     | 33     | 39     | 3,9 |   |   |
| 55011 | 60    | 380    | 90     | 35     | 41     | 4,0 |   |   |
| 55012 | 65    | 390    | 95     | 38     | 44     | 4,0 |   |   |
| 55013 | 70    | 400    | 105    | 41     | 47     | 5,0 |   |   |
| 55014 | 75    | 420    | 110    | 43     | 49     | 5,5 |   |   |
| 55015 | 80    | 440    |        |        |        | 7,0 |   |   |
| 55016 | 85    | 460    | 125    | 45     | 50     | 7,5 |   |   |
| 55017 | 90    |        |        |        |        |     |   |   |
| 55018 | 95    | 480    | 140    | 47     |        | 9,0 |   |   |
| 55019 | 100   |        |        |        | 55     |     |   |   |
| 55020 | 105   | 520    | 155    | 49     |        | 11  |   |   |
| 55021 | 110   |        |        |        |        |     |   |   |
| 55022 | 115   | 550    | 170    | 50     | 60     | 12  |   |   |
| 55023 | 120   |        |        |        |        |     |   |   |
| 55024 | 125   | 590    | 180    | 55     | 64     | 14  |   |   |
| 55025 | 130   |        |        |        |        |     |   |   |
| 55026 | 135   | 620    | 200    |        | 70     | 16  |   |   |
| 54942 | 140   |        |        | 60     |        |     |   |   |
| 54943 | 145   | 650    | 215    |        |        | 22  |   |   |
| 54944 | 150   |        |        |        |        |     |   |   |
| 54945 | 155   | 680    | 235    | 64     | 72     | 28  |   |   |


**INCH**


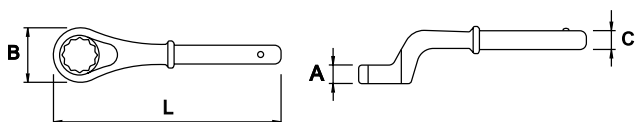
| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Kg  |   |   |
|-------|---------|--------|--------|--------|--------|-----|---|---|
| 55027 | 7/8     |        |        |        |        |     |   |   |
| 55028 | 15/16   | 240    | 42     | 18     | 23     | 0,9 |   |   |
| 55029 | 1       |        |        |        |        |     |   |   |
| 55030 | 1.1/16  | 270    |        | 20     | 26     | 1,2 | 5 | • |
| 55031 | 1.1/8   | 280    | 50     | 22     | 28     | 1,4 |   |   |
| 55032 | 1.3/16  |        |        |        |        |     |   |   |



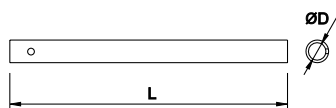
| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Kg   |   |   |
|-------|---------|--------|--------|--------|--------|------|---|---|
| 55033 | 1.1/4   |        | 55     | 23     | 29     | 1,6  |   |   |
| 55034 | 1.5/16  | 290    |        |        |        |      | 5 | ● |
| 55035 | 1.3/8   |        |        |        |        |      |   |   |
| 55036 | 1.7/16  | 300    | 65     | 25     | 31     | 1,8  |   |   |
| 55037 | 1.1/2   |        |        |        |        |      |   |   |
| 55038 | 1.9/16  |        |        |        |        |      |   |   |
| 55039 | 1.5/8   | 320    |        | 26     | 32     | 2    |   |   |
| 55040 | 1.11/16 |        | 70     |        |        |      |   |   |
| 55041 | 1.3/4   |        |        |        |        |      |   |   |
| 55042 | 1.13/16 | 340    |        | 27     | 34     | 2,6  |   |   |
| 55043 | 1.7/8   |        |        |        |        |      |   |   |
| 55044 | 1.15/16 |        |        |        |        |      |   |   |
| 55045 | 2       | 350    | 80     | 32     | 38     | 3    |   |   |
| 55046 | 2.1/16  |        |        |        |        |      |   |   |
| 55047 | 2.1/8   | 360    | 85     | 33     | 39     | 3,9  |   |   |
| 55048 | 2.3/16  |        |        |        |        |      |   |   |
| 55049 | 2.1/4   |        |        |        |        |      |   |   |
| 55050 | 2.5/16  |        |        |        |        |      |   |   |
| 55051 | 2.3/8   | 380    | 90     | 35     | 41     | 4,1  |   |   |
| 55052 | 2.7/16  |        |        |        |        |      |   |   |
| 55053 | 2.1/2   |        |        |        |        |      |   |   |
| 55054 | 2.9/16  | 390    | 95     | 38     | 44     | 4,2  |   |   |
| 55055 | 2.5/8   |        |        |        |        |      |   |   |
| 55056 | 2.11/16 |        |        |        |        |      |   |   |
| 55057 | 2.3/4   | 400    | 105    | 41     | 47     | 5,1  |   |   |
| 55058 | 2.13/16 |        |        |        |        |      |   |   |
| 55059 | 2.7/8   |        |        |        |        |      |   |   |
| 55060 | 2.15/16 | 420    | 110    | 43     | 49     | 5,5  |   |   |
| 55061 | 3       |        |        |        |        |      |   |   |
| 55062 | 3.1/16  |        |        |        |        |      |   |   |
| 55063 | 3.1/8   | 440    |        |        |        | 6,9  |   |   |
| 55064 | 3.1/4   |        | 125    | 45     | 50     |      |   |   |
| 55065 | 3.5/16  | 460    |        |        |        | 7,3  |   |   |
| 55066 | 3.3/8   |        |        |        |        |      |   |   |
| 55067 | 3.1/2   |        |        |        |        |      |   |   |
| 55068 | 3.9/16  |        |        |        |        |      |   |   |
| 55069 | 3.5/8   | 480    | 140    | 47     |        | 8,8  |   |   |
| 55070 | 3.11/16 |        |        |        |        |      |   |   |
| 55071 | 3.3/4   |        |        |        |        |      |   |   |
| 55072 | 3.13/16 |        |        |        | 55     |      |   |   |
| 55073 | 3.7/8   |        |        |        |        |      |   |   |
| 55074 | 3.15/16 |        |        |        |        |      |   |   |
| 55075 | 4       |        | 155    | 49     |        | 10,9 |   |   |
| 55076 | 4.1/16  | 520    |        |        |        |      |   |   |
| 55077 | 4.1/8   |        |        |        |        |      |   |   |
| 55078 | 4.3/16  |        |        |        |        |      |   |   |
| 55079 | 4.1/4   |        |        |        |        |      |   |   |
| 55080 | 4.5/16  |        |        |        |        |      |   |   |
| 55081 | 4.3/8   |        | 170    | 50     | 60     | 12   |   |   |
| 55082 | 4.1/2   | 550    |        |        |        |      |   |   |
| 55083 | 4.9/16  |        |        |        |        |      |   |   |
| 55084 | 4.5/8   |        |        |        |        |      |   |   |
| 55085 | 4.11/16 |        |        |        |        |      |   |   |
| 55086 | 4.3/4   |        |        |        |        |      |   |   |
| 55087 | 4.13/16 | 590    | 180    | 55     | 64     | 14   |   |   |
| 55088 | 4.7/8   |        |        |        |        |      |   |   |
| 55089 | 4.15/16 |        |        |        |        |      |   |   |
| 55090 | 5       |        |        |        |        |      |   |   |
| 55091 | 5.1/4   | 620    | 200    | 60     | 70     | 16   |   |   |
| 55092 | 5.1/16  |        |        |        |        |      |   |   |

**LLAVE ESTRELLA ACODADA PARA EXTENSIÓN / OFFSET RING SPANNER FOR EXTENSION / CLÉ POLYGONALE CONTRE COUDÉE À RALLONGE / RINGSCHLÜSSEL FÜR VERLÄNGERUNG / CHIAVE POLIGONALE PER ESTENSIONE / CHAVE INGLESA DESLOCADA DO ANEL PARA A EXTENSÃO / ИЗОГНУТАЯ ЗВЕЗДОЧКА ДЛЯ УДЛИНИТЕЛЯ**

MM

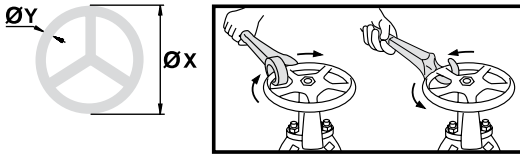




| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | g    |   |
|-------|-------|--------|--------|--------|--------|------|---|
| 66562 | 21    |        |        |        |        | 400  |   |
| 66563 | 22    | 180    |        | 38     | 20     |      |   |
| 65888 | 24    |        | 17     |        |        | 390  |   |
| 65889 | 27    | 190    |        | 42     | 18     | 420  |   |
| 65890 | 30    | 200    |        | 48     |        | 500  |   |
| 65891 | 32    | 230    | 18     | 49     |        | 750  |   |
| 65892 | 36    | 240    | 20     | 55     |        | 800  |   |
| 65893 | 38    |        |        |        | 21     |      |   |
| 65894 | 41    | 260    | 21     | 60     |        | 950  |   |
| 65982 | 42    |        |        |        |        | 1150 |   |
| 65895 | 46    | 280    | 23     | 70     |        |      |   |
| 65983 | 48    |        |        |        |        |      |   |
| 65896 | 50    | 290    | 25     | 75     | 24     | 1350 | 1 |
| 65984 | 52    |        |        |        |        |      |   |
| 65897 | 55    | 300    | 28     | 80     |        | 1450 |   |
| 65898 | 60    | 340    | 31     | 90     |        | 2150 |   |
| 65899 | 65    | 350    | 33     | 100    |        | 2500 |   |
| 65900 | 70    | 360    | 36     | 105    |        | 2850 |   |
| 65901 | 75    | 370    | 38     | 110    |        | 2050 |   |
| 65902 | 80    | 380    | 41     | 125    | 29     | 3750 |   |
| 65903 | 85    |        |        |        |        | 3550 |   |
| 65904 | 90    | 410    |        | 140    |        | 5150 |   |
| 65905 | 95    |        | 45     |        |        | 4900 |   |
| 65906 | 100   | 420    |        | 150    |        | 5000 |   |
| 65907 | 105   |        |        |        |        | 4900 |   |

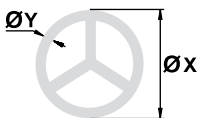

**EXTENSIÓN PARA LLAVE ESTRELLA ACODADA / EXTENSION FOR OFFSET RING SPANNER / RALLONGE DE CLÉ POLYGONALE CONTRE-COUDÉE / VERLÄNGERUNG FÜR RINGSCHLÜSSEL / ESTENSIONE PER CHIAVI POLIGONALI / EXTENSÃO PA CHAVE LUNETA CURVA / УДЛИНИТЕЛЬ ДЛЯ КЛЮЧА ИЗОГНУТАЯ ЗВЕЗДОЧКА**




| COD.  | AF mm  | O.D. mm | L (mm) | g    |   |
|-------|--------|---------|--------|------|---|
| 65909 | 24-30  | 18      | 460    | 750  |   |
| 65910 | 32-41  | 21      | 600    | 1150 | 1 |
| 65911 | 46-55  | 24      | 750    | 2750 |   |
| 65912 | 60-105 | 29      | 850    | 2850 |   |

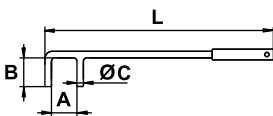




**■ LLAVES PARA VÁLVULAS / VALVE WRENCHES / CLÉS POUR VALVES / VENTILSCHLÜSSEL / CHIAVI PER VALVOLE / CHAVES PARA VÁLVULAS / КЛАПАНЫЕ КЛЮЧИ**
**■ LLAVE DE VÁLVULA / VALVE WRENCH / CLÉ POUR VALVE / VENTILSCHLÜSSEL / CHIAVE A VALVOLA / CHAVE DE VÁLVULA / КЛАПАНЫЙ КЛЮЧ**
**■ UNIVERSAL / UNIVERSAL / UNIVERSEL / UNIVERSELL / UNIVERSALE / UNIVERSAL / УНИВЕРСАЛЬНЫЙ**


| COD.  | L (mm) | Ø x (mm) | Ø x (inch) | Ø y (mm) |  |  |
|-------|--------|----------|------------|----------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 62803 | 215    | 50-175   | 2-7        | ≤ 12     | 0,2                                                                               |                                                                                     |
| 62804 | 400    | 200-375  | 8-15       | ≤ 24     | 1,3                                                                               |                                                                                     |
| 62805 | 490    | 400-500  | 16-20      | ≤ 30     | 1,7                                                                               |                                                                                     |
| 62807 | 500    | 150-425  | 6-17       | ≤ 40     | 1,5                                                                               | 1                                                                                   |
| 54972 | 550    | 125-250  | 5-10       | ≤ 35     | 1,4                                                                               |                                                                                     |
| 62806 | 800    | 400-500  | 16-20      | ≤ 30     | 2,0                                                                               |                                                                                     |
| 62812 | 1200   | 400-500  | 16-20      | ≤ 30     | 3,0                                                                               | -                                                                                   |


**■ ESPECIAL / SPECIAL / SPÉCIAL / SPEZIELL / SPECIALE / ESPECIAL / СПЕЦИАЛЬНЫЙ**
**■ MM**


| COD.  | L (mm) | Ø x (mm) | Ø y (mm) |  |  |
|-------|--------|----------|----------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 51623 | 250    | 50-175   | ≤ 19     | 0,2                                                                                 |                                                                                       |
| 51624 | 370    | 200-380  | ≤ 25     | 0,7                                                                                 |                                                                                       |
| 51625 | 500    | 405-510  | ≤ 40     | 2,0                                                                                 | 1                                                                                     |
| 51626 | 800    | 405-510  | ≤ 60     | 3,5                                                                                 |                                                                                       |

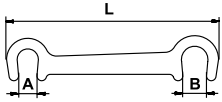

**■ GANCHO GIRADOR DE VÁLVULAS / VALVE WHEEL HOOK / FIXATION GIRATOIRE DE VALVE / VENTILHAKEN / GANCIO GIREVOLE PER VALVOLE / GANCHO DE RODA VÁLVULAS / КЛЮЧ ДЛЯ ОТКРЫТИЯ КЛАПАНОВ**
**■ MM**






| COD.  | L (mm) | A (mm) | B (mm) | Ø C (mm) |  |  |
|-------|--------|--------|--------|----------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 54974 | 300    | 35     | 33     | 17       | 0,4                                                                                 |                                                                                       |
| 54975 | 350    | 45     | 40     | 17       | 0,5                                                                                 |                                                                                       |
| 54976 | 400    | 50     | 45     | 17       | 0,8                                                                                 |                                                                                       |
| 54977 | 450    | 55     | 50     | 17       | 1,0                                                                                 |                                                                                       |
| 54978 | 500    | 60     | 55     | 17       | 1,2                                                                                 |                                                                                       |
| 54979 | 550    | 65     | 60     | 18       | 1,4                                                                                 |                                                                                       |
| 54980 | 600    | 70     | 65     | 18       | 1,5                                                                                 |                                                                                       |
| 54981 | 650    | 75     | 70     | 18       | 1,6                                                                                 | 1                                                                                     |
| 54982 | 700    | 80     | 70     | 18       | 1,6                                                                                 |                                                                                       |
| 54983 | 750    | 85     | 75     | 18       | 2,3                                                                                 |                                                                                       |
| 54984 | 800    | 90     | 85     | 18       | 2,4                                                                                 |                                                                                       |
| 54985 | 850    | 95     | 85     | 20       | 2,5                                                                                 |                                                                                       |
| 54986 | 900    | 95     | 90     | 20       | 2,6                                                                                 |                                                                                       |
| 54987 | 950    | 100    | 95     | 20       | 2,8                                                                                 |                                                                                       |
| 54988 | 1000   | 105    | 100    | 20       | 2,9                                                                                 |                                                                                       |
| 54989 | 1200   | 105    | 100    | 25       | 5,5                                                                                 |                                                                                       |



**LLAVE EN "C" DOBLE / DOUBLE C WRENCH / CLÉ EN DOUBLE C / DOPPEL C SCHLÜSSEL / CHIAVE DOPPIA A C / CHAVE EM C DUPLA / ДВОЙНОЙ С-ОБРАЗНЫЙ КЛЮЧ**

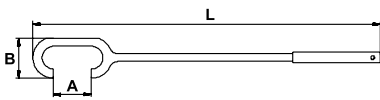
MM





| COD.  | L (mm) | A (mm) | B (mm) |  |  |  |  |
|-------|--------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 54992 | 200    | 14     | 18     | 14                                                                                | 18                                                                                | 0,4                                                                               |                                                                                     |
| 54993 | 250    | 17     | 25     | 17                                                                                | 25                                                                                | 0,6                                                                               | 1                                                                                   |
| 54994 | 450    | 25     | 34     | 25                                                                                | 34                                                                                | 2,3                                                                               |                                                                                     |


**LLAVE EN "C" / C WRENCH / CLÉ EN C / C SCHLÜSSEL / CHIAVE A C / CHAVE EM C / С-ОБРАЗНЫЙ КЛЮЧ**

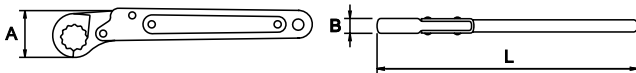
MM







| COD.  | L (mm) | A (mm) | B (mm) |  |  |
|-------|--------|--------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 54997 | 450    | 40     | 55     | 1,0                                                                               | 1                                                                                   |


**LLAVE DE CARRACA PARA RACORES / RATCHETING RING WRENCH / CLÉ À TUYAUTER À CLIQUET / KNARRENROHR SCHLÜSSEL / CHIAVE A CRICCO PER RACCORDI / CHAVE LUNETA ABERTA COM ROQUETE / КЛЮЧ ЗВЕЗДОЧКА С ТРЕЩЕТКОЙ**

MM




| COD.  |  | L (mm) | A (mm) | B (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 65089 | 10                                                                                  |        |        |        | 80                                                                                  |                                                                                     |                                                                                       |
| 65090 | 11                                                                                  |        |        |        | 85                                                                                  |                                                                                     |                                                                                       |
| 65091 | 12                                                                                  | 135    | 24     | 7,0    |                                                                                     |                                                                                     |                                                                                       |
| 65092 | 13                                                                                  |        |        |        | 90                                                                                  |                                                                                     |                                                                                       |
| 65093 | 14                                                                                  |        |        |        | 140                                                                                 | 6                                                                                   |                                                                                       |
| 65095 | 17                                                                                  | 185    | 30     | 8,0    | 180                                                                                 |                                                                                     |                                                                                       |
| 65096 | 19                                                                                  |        | 32     |        | 230                                                                                 |                                                                                     |                                                                                       |
| 65098 | 22                                                                                  | 230    | 39     | 11     |                                                                                     |                                                                                     |                                                                                       |
| 65099 | 24                                                                                  |        |        |        | 320                                                                                 |                                                                                     |                                                                                       |
| 65100 | 27                                                                                  | 320    | 49     | 13     |                                                                                     |                                                                                     |                                                                                       |
| 65102 | 32                                                                                  |        | 50     | 18     |                                                                                     |                                                                                     |                                                                                       |

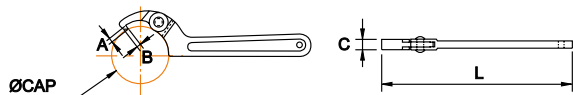


SET

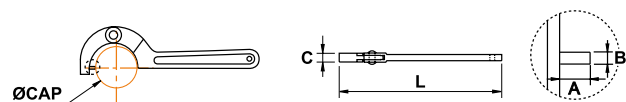
MM

| COD.  | PCS. |  | COD. PCS.                                                            | (mm)                                   |
|-------|------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------|
| 68582 | 10   | 90058                                                                               | 65089, 65090, 65091, 65092, 65093, 65095, 65096, 65098, 65099, 65100 | 10, 11, 12, 13, 14, 17, 19, 22, 24, 27 |

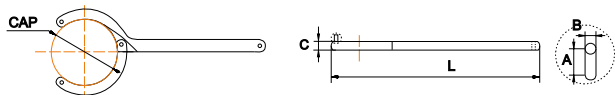


**LLAVES DE GANCHO / HOOK WRENCHES / CLÉS À ERGOT / HAKENSCHLÜSSEL / CHIAVI A SETTORE / CHAVES DE GANCHO / СЕРПОВИДНЫЕ КРЮК-КЛЮЧИ**
**LLAVE DE GANCHO ARTICULADA / ADJUSTABLE HOOK SPANNER / CLÉ À ERGOT ARTICULEE / ZANGE MIT VERSTELLBARE BACKE / CHIAVE A SETTORE REGOLABILE / CHAVE DE GANCHO ARTICULADA / РУГУЛИРУЕМЫЙ КЛЮЧ КРЮК**


| COD.  | L (mm) | CAP. Ø (mm) | CAP. Ø (inch) | A (mm) | B (mm) | C (mm) | g   |   |   |
|-------|--------|-------------|---------------|--------|--------|--------|-----|---|---|
| 67981 | 160    | 19-50       | 3/4-2         | 4,0    | 3,5    | 9      | 110 |   |   |
| 67982 | 205    | 32-75       | 1.1/4-3       |        |        | 11     | 225 | 6 | • |
| 67983 | 290    | 50-120      | 2-4.3/4       | 4,5    | 4,0    | 12     | 450 |   |   |
| 67984 | 310    | 115-170     | 4.1/2-6.3/4   | 5,0    | 4,5    | 13     | 580 |   |   |


**LLAVE DE GANCHO CON PIN ARTICULADA / ADJUSTABLE HOOK SPANNER WITH PIN / CLÉ À ERGOT ARTICULÉE AVEC CROCHET / VERSTELLBARE HAKENSCHLÜSSEL MIT PIN / CHIAVE A SETTORE ARTICOLATA CON PIN / CHAVES DE UNHA ARTICULADA COM PIN / КЛЮЧ-КРЮК С ШАРНИРОМ**


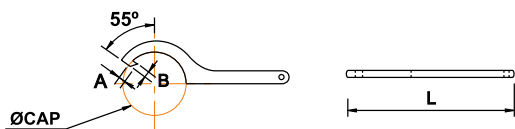
| COD.  | L (mm) | CAP. Ø (mm) | CAP. Ø (inch) | A (mm) | B (mm) | C (mm) | g    |    |   |
|-------|--------|-------------|---------------|--------|--------|--------|------|----|---|
| 58120 | 170    | 15-35       | 19/32-1.3/8   | 3      | 3      | 5,5    | 100  |    |   |
| 58121 | 200    | 35-50       | 1.3/8-2       | 4,3    | 4      | 7      | 180  | 10 |   |
| 58122 | 280    | 50-80       | 2-3.3/4       | 5      | 6,2    | 8      | 380  |    | • |
| 58123 | 345    | 80-120      | 3.3/4-4.11/16 | 6      |        |        | 660  |    |   |
| 58124 | 490    | 120-180     | 4.11/16-5.7/8 | 7,4    | 7,8    | 11     | 1440 | 5  |   |



| COD.  | L (mm) | CAP. Ø (mm) | A (mm) | B (mm) | C (mm) | Kg  |   |   |
|-------|--------|-------------|--------|--------|--------|-----|---|---|
| 54966 | 150    | 18-40       | 5      | 4      | 8      | 0,1 |   |   |
| 54967 | 220    | 40-80       | 7      | 5      | 10     | 0,3 |   |   |
| 54968 | 300    | 80-125      | 8      | 6      | 12     | 0,6 | 6 | • |
| 54969 | 410    | 125-200     | 10     | 8      | 14     | 1,6 |   |   |


**PIN DE RECAMBIO / SPARE PINS / CROCHET DE RECHANGE / ERSATZSTIFTE / PIN DI RICAMBIO / PINO DE SUBSTITUIÇÃO / ЗАПАСНОЙ ШТИФТ**




| COD.  | A (mm) | Ø B (mm) | Válido para / Valid for / Valable pour |
|-------|--------|----------|----------------------------------------|
| 86890 | 3      | 3        | 58120                                  |
| 86891 | 4,3    | 4        | 58121                                  |
| 86892 | 5      | 6,2      | 58122                                  |
| 86893 | 6      |          | 58123                                  |
| 86894 | 7,4    | 7,8      | 58124                                  |


**LLAVE DE GANCHO / HOOK SPANNER / CLÉ À ERGOT / ECKZANGE / CHIAVE A SETTORE / CHAVE DE GANCHO / КЛЮЧ КРЮК**


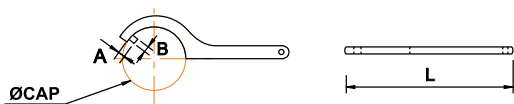
| COD.  | L (mm) | CAP. Ø (mm) | CAP. Ø (inch) | A (mm) | B (mm) | g  |   |   |
|-------|--------|-------------|---------------|--------|--------|----|---|---|
| 68283 |        | 12-14       | 1/2-9/16      | 1,8    | 1,8    | 16 |   |   |
| 68284 | 110    | 16-20       | 5/8-25/32     | 2,3    | 2      | 20 |   |   |
| 68285 |        | 25-28       | 1-1.1/8       |        | 2,3    | 40 | 6 | • |
| 68286 | 120    | 30-32       | 1.3/16- 1.1/4 | 2,5    | 2,5    | 60 |   |   |








| COD.  | L (mm) | CAP. Ø (mm) | CAP. Ø (inch)   | A (mm) | B (mm) |  |  |  |
|-------|--------|-------------|-----------------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 68287 | 150    | 34-36       | 1.5/16-1.13/32  | 2,5    | 3      | 90                                                                                |                                                                                   |                                                                                     |
| 68288 |        | 40-42       | 1.9/16- 1.21/32 |        |        | 100                                                                               |                                                                                   |                                                                                     |
| 68289 | 180    | 45-50       | 1.3/4-2         | 3      | 3,5    | 150                                                                               |                                                                                   |                                                                                     |
| 68290 |        | 52-55       | 2.1/16-2.3/16   |        |        | 160                                                                               |                                                                                   |                                                                                     |
| 68291 | 210    | 58-62       | 2.9/32-2.7/16   | 3,5    | 4      | 210                                                                               |                                                                                   |                                                                                     |
| 68292 |        | 68-75       | 2.11/16-3       |        |        | 250                                                                               |                                                                                   |                                                                                     |
| 68293 | 240    | 80-90       | 3.1/8-3.1/2     |        |        | 370                                                                               |                                                                                   |                                                                                     |
| 68295 |        | 95-100      | 3.3/4-4         |        |        | 410                                                                               |                                                                                   |                                                                                     |
| 68296 | 280    | 110-115     | 4.5/16-4.9/16   | 4      | 5      | 700                                                                               | 6                                                                                 | •                                                                                   |
| 68297 |        | 120-130     | 4.11/16-5.1/8   |        |        | 750                                                                               |                                                                                   |                                                                                     |
| 68298 | 320    | 135-145     | 5.5/16-5.3/4    | 6      |        | 1050                                                                              |                                                                                   |                                                                                     |
| 68299 |        | 150-165     | 5.7/8-6.1/2     |        |        | 1150                                                                              |                                                                                   |                                                                                     |
| 57640 | 380    | 180-195     | 7.1/8-7.5/8     | 14     | 6      | 1800                                                                              |                                                                                   |                                                                                     |
| 57641 |        | 205-220     | 8.1/8-8.5/8     |        |        | 1900                                                                              |                                                                                   |                                                                                     |
| 57642 | 460    | 230-245     | 9.1/8- 9.5/8    |        | 8      | 3530                                                                              |                                                                                   |                                                                                     |
| 57643 |        | 260-270     | 10.1/4-10.5/8   | 16     |        | 3600                                                                              |                                                                                   |                                                                                     |
| 57644 | 550    | 280-300     | 11.1/8-11.3/4   |        | 10     | 5430                                                                              |                                                                                   |                                                                                     |

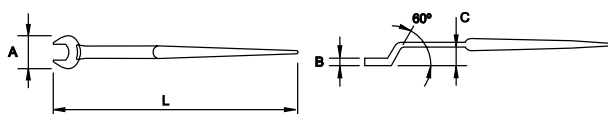
DIN 1810





**LLAVE DE GANCHO CON PIN / HOOK SPANNER WITH PIN / CLÉ À ERGOT AVEC CROCHET / HAKENSCHLÜSSEL MIT PIN / CHIAVE A SETTORE CON PIN / CHAVES DE UNHA COM PIN / КЛЮЧ-КРЮК**


| COD.  | L (mm) | CAP. Ø (mm) | CAP. Ø (inch)  | A (mm) | B (mm) |  |  |  |
|-------|--------|-------------|----------------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 58100 | 110    | 16-18       | 5/8-11/16      | 2,2    | 2,5    | 25                                                                                  | 20                                                                                  |                                                                                       |
| 58101 |        | 20-22       | 25/32-7/8      |        |        |                                                                                     |                                                                                     |                                                                                       |
| 58102 | 135    | 25-28       | 1-1.1/8        | 3      | 3      | 50                                                                                  |                                                                                     |                                                                                       |
| 58103 |        | 30-32       | 1.3/16-1.1/4   |        |        |                                                                                     |                                                                                     |                                                                                       |
| 58104 | 170    | 34-36       | 1.5/16-1.13/32 | 3,5    | 4      | 80                                                                                  | 10                                                                                  |                                                                                       |
| 58105 |        | 40-42       | 1.9/16-1.21/32 |        |        |                                                                                     |                                                                                     |                                                                                       |
| 58106 | 205    | 45-50       | 1.3/4-2        | 4      | 5      | 180                                                                                 |                                                                                     |                                                                                       |
| 58107 |        | 52-55       | 2.1/16-2.3/16  |        |        |                                                                                     |                                                                                     |                                                                                       |
| 58108 | 240    | 58-62       | 2.9/32-2.7/16  | 5      |        | 280                                                                                 | 25                                                                                  | •                                                                                     |
| 58109 |        | 68-75       | 2.11/16-3      |        | 6      |                                                                                     |                                                                                     |                                                                                       |
| 58110 | 280    | 80-90       | 3.1/8-3.1/2    | 6      |        | 435                                                                                 | 15                                                                                  |                                                                                       |
| 58111 |        | 95-100      | 3.3/4-4        |        |        |                                                                                     |                                                                                     |                                                                                       |
| 58112 | 335    | 110-115     | 4.5/16-4.9/16  |        |        |                                                                                     |                                                                                     |                                                                                       |
| 58113 |        | 120-130     | 4.11/16-5.1/8  |        | 8      | 800                                                                                 | 10                                                                                  |                                                                                       |
| 58114 | 385    | 135-145     | 5.5/16-5.3/4   | 8      |        | 1250                                                                                |                                                                                     |                                                                                       |
| 58115 |        | 155-165     | 5.15/16-6.1/2  |        |        |                                                                                     | 5                                                                                   |                                                                                       |
| 58116 | 465    | 180-195     | 7-7.11/16      |        | 10     | 2100                                                                                |                                                                                     |                                                                                       |
| 58117 |        | 205-220     | 8-8.11/16      |        |        |                                                                                     |                                                                                     |                                                                                       |


**LLAVES PARA ESTRUCTURA / PODGING WRENCHES / CLÉS POUR STRUCTURE MÉTALLIQUE / SCHLÜSSEL FÜR DIE METALLSTRUKTUR / CHIAVI PER PONTEGGI / CHAVES DE ESTRUTURA / КЛЮЧИ ДЛЯ СТРОИТЕЛЬНЫХ ЛЕСОВ**
**LLAVE FIJA ACODADA PARA ESTRUCTURA / OFFSET OPEN END STRUCTURAL WRENCH / CLÉ À FOURCHE CONTRE-COUDÉE POUR STRUCTURE MÉTALLIQUE / MAULSCHLÜSSEL GEKROFFT MIT DORN / CHIAVE FISSA PER PONTEGGI / CHAVE VOCA INCLINADA PARA ESTRUTURA / КЛЮЧ ГАЕЧНЫЙ ОДНОСТОРОННИЙ ВИЛКОБРАЗНЫЙ СТРОИТЕЛЬНЫЙ**

MM

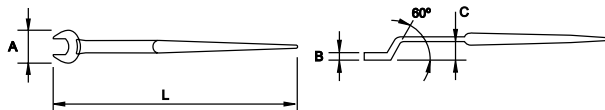


| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 64912 | 17                                                                                  | 350    | 24     | 7,5    | 24     | 210                                                                                 | 1                                                                                   | •                                                                                     |
| 64913 | 19                                                                                  |        | 40     | 9      |        | 300                                                                                 |                                                                                     |                                                                                       |



| COD.  | AP mm | L (mm) | A (mm) | B (mm) | C (mm) | g    |   |   |
|-------|-------|--------|--------|--------|--------|------|---|---|
| 65781 | 21    |        |        |        |        | 400  |   |   |
| 64914 | 22    | 350    | 46     |        | 24     | 410  |   |   |
| 58425 | 23    |        |        | 11     |        |      |   |   |
| 64915 | 24    | 370    | 49     |        | 28     | 450  |   | ● |
| 64916 | 27    |        | 55     |        |        | 600  |   |   |
| 64917 | 30    | 400    | 65     | 13     | 32     | 800  |   |   |
| 64918 | 32    |        |        |        |        |      |   |   |
| 64919 | 36    | 430    | 70     | 14     | 36     | 900  | 1 |   |
| 58426 | 38    | 470    | 80     | 15     | 41     | 1200 |   |   |
| 64920 | 41    |        |        |        |        |      |   |   |
| 58427 | 45    |        |        |        |        |      |   |   |
| 64921 | 46    | 500    | 90     | 16     | 46     | 1500 |   |   |
| 58428 | 47    |        |        |        |        |      |   |   |
| 64922 | 50    | 550    | 100    | 17     | 48     | 1800 |   |   |
| 64923 | 55    |        | 110    | 18     | 50     | 2000 |   |   |
| 58429 | 70    | 600    | 140    | 24     | 55     | 4400 |   |   |

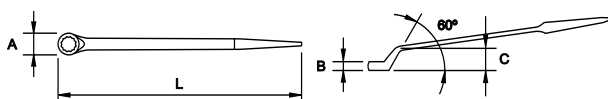
## INCH



| COD.  | AP inch | L (mm) | A (mm) | B (mm) | C (mm) | g    |   |   |
|-------|---------|--------|--------|--------|--------|------|---|---|
| 64924 | 3/4     | 350    | 40     | 9      | 24     | 300  |   |   |
| 64925 | 7/8     |        | 46     |        |        | 410  |   |   |
| 64926 | 15/16   |        |        | 11     |        |      |   |   |
| 64927 | 1       | 370    | 49     |        | 28     | 450  |   |   |
| 64928 | 1.1/16  |        |        |        |        |      |   | ● |
| 64929 | 1.1/8   |        |        |        |        |      |   |   |
| 64930 | 1.3/16  | 400    |        | 13     | 32     | 750  |   |   |
| 64931 | 1.1/4   |        | 65     |        |        |      |   |   |
| 64932 | 1.5/16  |        |        |        |        |      |   |   |
| 64933 | 1.3/8   | 430    |        | 14     | 36     | 900  |   |   |
| 64934 | 1.7/16  |        |        |        |        |      |   |   |
| 64935 | 1.1/2   |        |        |        |        |      | 1 |   |
| 64936 | 1.9/16  | 470    | 80     | 15     | 41     | 1200 |   |   |
| 64937 | 1.5/8   |        |        |        |        |      |   |   |
| 64938 | 1.11/16 |        |        |        |        |      |   |   |
| 64939 | 1.3/4   |        |        |        |        |      |   |   |
| 64940 | 1.13/16 | 500    | 90     | 16     | 46     | 1500 |   |   |
| 64941 | 1.7/8   |        |        |        |        |      |   |   |
| 64942 | 1.15/16 |        | 100    | 17     | 48     | 1800 |   |   |
| 64943 | 2       | 550    |        |        |        |      |   |   |
| 64944 | 2.1/16  |        | 110    | 18     | 50     | 2000 |   |   |
| 64945 | 2.1/8   |        |        |        |        |      |   |   |
| 64946 | 2.3/16  |        |        |        |        |      |   |   |


**LLAVE ESTRELLA ACODADA PARA ESTRUCTURA / OFFSET RING STRUCTURAL WRENCH / CLÉ POLYGAONALE CONTRE-COUDÉE POUR STRUCTURE MÉTALLIQUE / RINGSCHLÜSSEL  
GEKRÖPFT MIT DORN / CHIAVE POLIGONALE PER PONTEGGI / CHAVE LUNETAS INCLINADA PARA ESTRUTURA / КЛЮЧ НАКИДНОЙ ОДНОСТОРОННИЙ ВИЛКООБРАЗНЫЙ  
СТРОИТЕЛЬНЫЙ**

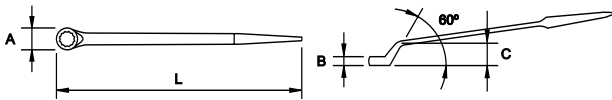
## MM



| COD.  | AP mm | L (mm) | A (mm) | B (mm) | C (mm) | Kg  |   |   |
|-------|-------|--------|--------|--------|--------|-----|---|---|
| 64947 | 14    | 270    | 24     | 10     | 23     | 0,2 | 1 | ● |



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Kg  |   |   |
|-------|-------|--------|--------|--------|--------|-----|---|---|
| 64948 | 17    | 310    | 28     | 11     | 27     | 0,2 |   |   |
| 64949 | 19    | 330    | 32     | 12     | 31     |     |   |   |
| 64950 | 22    | 350    | 35     | 13     |        | 0,3 |   |   |
| 64951 | 24    | 370    | 38     |        | 34     |     |   | • |
| 64952 | 27    | 400    | 42     | 14     | 37     | 0,4 |   |   |
| 64953 | 30    |        |        |        |        |     |   |   |
| 64954 | 32    | 430    | 50     | 16     | 43     | 0,6 |   |   |
| 64955 | 36    | 460    | 55     | 19     | 48     | 0,9 |   |   |
| 64956 | 41    | 490    | 65     | 20     | 55     | 1,1 |   |   |
| 64957 | 46    | 500    | 70     | 22     |        | 1,5 |   |   |
| 64958 | 50    |        | 75     |        | 60     | 1,8 |   |   |
| 64959 | 55    | 550    | 85     | 26     |        | 2,1 | 1 |   |
| 64960 | 60    | 600    | 90     | 28     | 65     | 2,5 |   |   |
| 64961 | 65    |        |        | 30     |        | 2,7 |   |   |
| 64962 | 70    | 650    | 110    |        | 70     |     |   | - |
| 64963 | 75    |        |        | 34     |        | 3,5 |   |   |
| 64964 | 80    |        | 115    | 36     |        | 4,0 |   |   |
| 64965 | 85    | 700    | 125    | 37     |        |     |   |   |
| 64966 | 90    |        | 135    | 39     | 75     | 5,0 |   |   |
| 64967 | 95    |        | 140    | 41     |        |     |   |   |
| 64968 | 100   | 750    | 145    | 42     | 80     | 6,0 |   |   |
| 64969 | 110   |        | 160    | 43     |        | 7,0 |   |   |

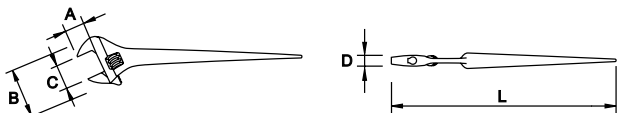
**INCH**


| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Kg  |   |   |
|-------|---------|--------|--------|--------|--------|-----|---|---|
| 64970 | 3/4     | 330    | 32     | 12     | 31     | 0,2 |   |   |
| 64971 | 7/8     | 350    | 35     | 13     |        | 0,3 |   |   |
| 64972 | 15/16   | 370    | 38     |        | 34     |     |   | • |
| 64973 | 1       | 400    | 42     | 14     | 37     | 0,4 |   |   |
| 64974 | 1.1/16  |        |        |        |        |     |   |   |
| 64975 | 1.1/8   |        |        |        |        |     |   |   |
| 64976 | 1.3/16  | 430    | 50     | 16     | 43     | 0,6 |   |   |
| 64977 | 1.1/4   |        |        |        |        |     |   |   |
| 64978 | 1.5/16  |        |        |        |        |     |   |   |
| 64979 | 1.3/8   | 460    | 55     | 19     | 48     | 0,9 |   |   |
| 64980 | 1.7/16  |        |        |        |        |     |   |   |
| 64981 | 1.1/2   |        |        |        |        |     |   |   |
| 64982 | 1.9/16  | 490    | 65     | 20     | 50     | 1,0 |   |   |
| 64983 | 1.5/8   |        |        |        |        |     |   |   |
| 64984 | 1.11/16 |        |        |        |        |     |   |   |
| 64985 | 1.3/4   |        |        |        |        |     | 1 |   |
| 64986 | 1.13/16 | 500    | 70     | 22     |        | 1,5 |   |   |
| 64987 | 1.7/8   |        |        |        |        |     |   |   |
| 64988 | 1.15/16 |        | 80     |        | 60     | 1,8 |   |   |
| 64989 | 2       |        |        | 26     |        |     |   |   |
| 64990 | 2.1/16  | 550    |        |        |        | 2,1 |   |   |
| 64991 | 2.1/8   |        | 85     |        |        |     |   |   |
| 64992 | 2.3/16  |        |        |        |        |     |   |   |
| 64993 | 2.1/4   |        |        |        |        |     |   |   |
| 64994 | 2.5/16  | 600    | 90     | 28     | 65     | 2,5 |   |   |
| 64995 | 2.3/8   |        |        |        |        |     |   |   |
| 64996 | 2.7/16  |        |        |        |        |     |   |   |
| 64997 | 2.1/2   |        |        |        |        |     |   |   |
| 64998 | 2.9/16  | 650    | 105    | 30     | 70     | 2,7 |   |   |
| 64999 | 2.5/8   |        |        |        |        |     |   |   |
| 68126 | 3.1/8   |        | 128    | 35     | 72,5   | 4   |   |   |



| COD.         | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Kg  |   |   |
|--------------|---------|--------|--------|--------|--------|-----|---|---|
| <b>68127</b> | 3.7/8   | 650    | 152    | 40     | 75     | 5,8 | 1 | - |

**LLAVE AJUSTABLE PARA ESTRUCTURA / ADJUSTABLE STRUCTURAL WRENCH / CLÉ À MOLETTE POUR STRUCTURE MÉTALLIQUE / VERSTELLBARE ROLLGABELSCHLÜSSEL MIT DORN / CHIAVE REOLABILE PER PONTEGGI / CHAVE AJUSTÁVEL PARA ESTRUTURA / КЛЮЧ РАЗВОДНОЙ СТРОИТЕЛЬНЫЙ**

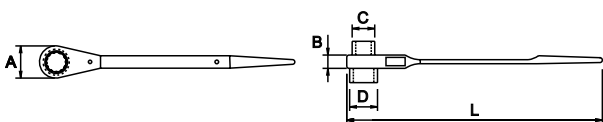


| COD.         | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g    |   |   |
|--------------|----------|--------|--------|--------|--------|--------|------|---|---|
| <b>61137</b> | 16       | 400    | 35     | 85     | 42     | 17     | 1100 | 1 | ● |



**LLAVE DE CARRACA PARA ESTRUCTURA METÁLICA / PODGING WRENCH / CLIQUET RÉVERSIBLE / STAHLBAUKNARRE / CHIAVE A CRICCO PER COSTRUZIONE / CHAVE DE ROQUETE PARA ESTRUTURA METÁLICA / ГОЛОВКА С ТРЕЩЕТКОЙ**

MM

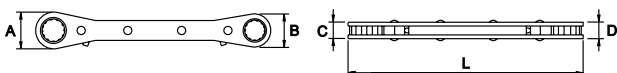


| COD.         | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g    |   |   |
|--------------|-------|--------|--------|--------|--------|--------|------|---|---|
| <b>65916</b> | 10-13 |        | 28     | 15     | 15     | 18     | 170  |   |   |
| <b>57545</b> | 12-14 | 240    | 32     | 16     | 17     | 20     | 240  |   |   |
| <b>65908</b> | 13-17 | 280    | 41     | 17     | 19     | 24     | 310  |   |   |
| <b>65076</b> | 17-19 |        | 43     |        | 24     | 27     |      |   |   |
| <b>65917</b> | 19-21 | 320    |        | 19     | 26     | 28     | 480  |   |   |
| <b>65077</b> | 19-22 |        | 50     |        | 29     | 29     |      |   |   |
| <b>65078</b> | 19-24 |        |        | 20     | 28     | 33     | 650  | 6 | ● |
| <b>57546</b> | 22-24 | 370    |        |        | 31     | 34     | 750  |   |   |
| <b>57547</b> | 24-27 |        | 52     |        | 34     | 37     |      |   |   |
| <b>65079</b> | 24-30 |        |        | 21     | 32     | 41     | 950  |   |   |
| <b>65080</b> | 27-32 | 420    | 60     |        | 37     | 43     | 2000 |   |   |
| <b>57548</b> | 30-32 |        |        | 22     | 40     | 44     | 1000 |   |   |
| <b>57549</b> | 32-36 | 450    | 79     | 26     | 46     | 51     | 2000 |   |   |
| <b>65081</b> | 36-41 |        |        | 27     | 49     | 57     |      |   |   |



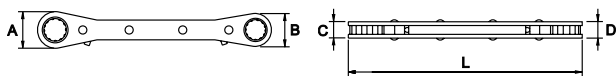
**LLAVE ESTRELLA DE CARRACA PLANA / DOUBLE RATCHET WRENCH / CLÉ POLYGONALE À CLIQUET / DOPPELKNARRE FLACH / CHIAVE A CRICCO / CHAVE LUNETA PLANA COM ROQUETE / ДВОЙНАЯ ТРЕЩЕТКА ЗВЕЗДОЧКА**

MM



| COD.         | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   |    |   |
|--------------|-------|--------|--------|--------|--------|--------|-----|----|---|
| <b>65107</b> | 8-10  | 150    | 18     | 17     | 9,0    | 9,0    | 90  | 6  |   |
| <b>65108</b> | 10-11 | 170    | 22     | 19     | 9,0    | 9,0    | 120 |    |   |
| <b>65109</b> | 12-13 | 180    | 26     | 21     | 9,5    | 9,5    | 140 |    |   |
| <b>65110</b> | 14-15 | 210    | 33     | 30     | 10     | 10     | 200 | 10 | ● |
| <b>65111</b> | 14-17 |        |        | 33     | 11     | 10     | 210 |    |   |
| <b>65112</b> | 19-21 | 230    | 40     | 37     | 11     | 10     | 260 |    |   |



**INCH**


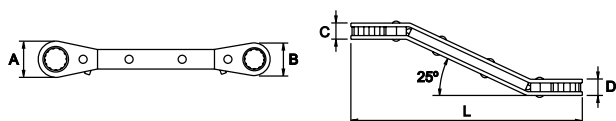
| COD.  | AF inch   | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   | Icon 1 | Icon 2 |
|-------|-----------|--------|--------|--------|--------|--------|-----|--------|--------|
| 65113 | 1/4-5/16  | 150    | 18     | 18     | 8,5    | 8,5    | 60  |        | 6      |
| 65114 | 3/8-7/16  | 175    | 24     | 20     | 9,0    |        | 85  |        |        |
| 65115 | 1/2-9/16  | 180    | 29     | 24     | 10     | 9,5    | 140 |        | •      |
| 65116 | 5/8-11/16 | 210    | 36     | 33     |        | 10     | 200 |        | 10     |
| 65117 | 3/4-7/8   |        | 40     | 37     | 11     | 12     | 260 |        |        |


**SET**
**MM**

| COD.  | PCS. | Icon 1 | COD. PCS.                                | (mm)                                    |
|-------|------|--------|------------------------------------------|-----------------------------------------|
| 68610 | 6    | 90056  | 65107, 65108, 65109, 65110, 65111, 65112 | 8-10, 10-11, 12-13, 14-15, 14-17, 19-21 |

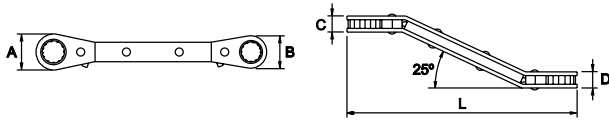

**INCH**

| COD.  | PCS. | Icon 1 | COD. PCS.                         | (inch)                                           |
|-------|------|--------|-----------------------------------|--------------------------------------------------|
| 68611 | 5    | 90056  | 65113, 65114, 65115, 65116, 65117 | 1/4-5/16, 3/8-7/16, 1/2-9/16, 5/8-11/16, 3/4-7/8 |

**LLAVE ESTRELLA DE CARRACA ACODADA / OFFSET DOUBLE RATCHET WRENCH / CLÉ POLYGONALE CONTRE-COUEE À CLIQUET / DOPPELKNARRE ABGEWINKELT / CHIAVE A CRICCO A CONTROGOMITO / CHAVE LUNETEA INCLINADA COM ROQUETE / ДВОЙНАЯ ТРЕЩЕТКА ЗВЕЗДОЧКА ИЗОГНУТАЯ**
**MM**


| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   | Icon 1 | Icon 2 |
|-------|-------|--------|--------|--------|--------|--------|-----|--------|--------|
| 65118 | 8-10  | 150    | 20     | 18     | 9,5    | 9,0    | 85  |        |        |
| 65119 | 10-11 | 175    | 25     | 21     |        | 9,5    | 120 | 6      |        |
| 65120 | 12-13 | 180    | 29     | 24     | 10     | 9,5    | 140 |        | •      |
| 65121 | 14-15 | 210    | 36     | 33     |        | 10     | 200 |        |        |
| 65122 | 14-17 |        | 40     |        | 10     | 210    | 8   |        |        |
| 65123 | 19-21 | 230    | 41     | 37     | 11     | 10     | 260 |        |        |



**INCH**


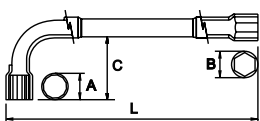
| COD.  | AF inch   | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   |   |   |
|-------|-----------|--------|--------|--------|--------|--------|-----|---|---|
| 65124 | 1/4-5/16  | 150    | 20     | 17     | 9,5    | 8,5    | 60  | 6 |   |
| 65125 | 3/8-7/16  | 175    | 23     | 20     |        |        |     |   |   |
| 65126 | 1/2-9/16  | 180    | 30     | 27     | 10     | 9,5    | 140 |   | • |
| 65127 | 5/8-11/16 | 210    | 36     | 33     |        |        |     |   |   |
| 65128 | 3/4-7/8   |        | 40     | 37     |        |        |     |   |   |


**SET**
**MM**

| COD.  | PCS. |       | COD. PCS.                                | (mm)                                    |
|-------|------|-------|------------------------------------------|-----------------------------------------|
| 68612 | 6    | 90056 | 65118, 65119, 65120, 65121, 65122, 65123 | 8-10, 10-11, 12-13, 14-15, 14-17, 19-21 |


**INCH**

| COD.  | PCS. |       | COD. PCS.                         | (inch)                                           |
|-------|------|-------|-----------------------------------|--------------------------------------------------|
| 68613 | 5    | 90056 | 65124, 65125, 65126, 65127, 65128 | 1/4-5/16, 3/8-7/16, 1/2-9/16, 5/8-11/16, 3/4-7/8 |

**LLAVES DE PIPA ABIERTAS / ANGLED OPEN SOCKETS / CLÉS À PIPE DEBOUCHEES / PFEIFENKOPFSCHLÜSSEL / CHIAVI A PIPA APERTE / DE CACHIMBO ABERTAS / КЛЮЧ С ИЗОГНУТЫМИ ГОЛОВКАМИ**
**MM**


| COD.  | AF mm | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | g   |   |   |
|-------|-------|---------|--------|--------|--------|--------|-----|---|---|
| 61870 | 6     | -       | 110    | 11     | 11     | 18     | 50  |   |   |
| 61871 | 7     | -       | 115    | 12     | 12     | 21     |     |   |   |
| 61872 | 8     | 5/16 *  | 120    | 13     | 13     | 22     | 60  |   |   |
| 61873 | 9     | -       | 125    | 14     | 14     | 22     |     |   |   |
| 61874 | 10    | 25/64 * | 130    | 16     | 16     | 26     |     |   |   |
| 61875 | 11    | 7/16 *  | 135    | 17     | 17     | 26     | 140 | 6 | • |
| 61876 | 12    | 5/32 *  | 145    | 18     | 18     | 27     |     |   |   |
| 61877 | 13    | -       | 150    | 19     | 19     | 30     | 170 |   | A |
| 61878 | 14    | 35/64 * | 160    | 21     | 21     | 33     |     |   |   |
| 61879 | 15    | -       | 175    | 22     | 22     | 35     | 230 |   |   |
| 61880 | 16    | -       | 185    | 24     | 24     | 39     |     |   |   |
| 61881 | 17    | -       | 200    | 25     | 25     | 39     | 290 |   |   |



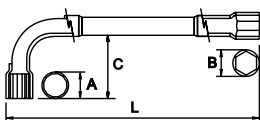
A Cromado pulido espejo / Mirror polished chrome plating / Polie chromée / Verchromt geschliffen / Cromate lucide / Cromado pulido / Полированный хром

| COD.  | AF mm | AF inch  | L (mm) | A (mm) | B (mm) | C (mm) | g    |   |   |
|-------|-------|----------|--------|--------|--------|--------|------|---|---|
| 61882 | 18    | -        | 210    | 26     | 26     | 41     | 340  |   |   |
| 61883 | 19    | 3/4 *    | 220    | 28     | 28     | 44     | 400  |   | • |
| 61884 | 20    | 25/32 *  |        | 30     | 30     | 45     | 470  |   |   |
| 61885 | 21    |          | 230    |        |        |        | 500  |   |   |
| 61886 | 22    |          | 245    | 32     | 32     | 48     | 600  |   |   |
| 61887 | 23    | 29/32 *  | 255    | 33     | 33     |        | 700  |   |   |
| 61888 | 24    |          | 265    | 34     | 34     | 55     | 800  |   |   |
| 61889 | 25    |          | 280    | 36     | 36     |        | 1000 |   |   |
| 61890 | 26    |          | 290    | 37     | 37     |        |      | 6 | A |
| 61891 | 27    | 1.1/16 * | 300    | 38     | 38     | 60     | 1200 |   |   |
| 61892 | 28    |          | 310    | 39     | 39     |        | 1300 |   |   |
| 61893 | 29    | 1.9/64 * | 320    | 41     | 41     |        |      |   |   |
| 61894 | 30    | 1.3/16 * | 330    | 42     | 42     |        | 1500 |   |   |
| 61895 | 32    |          | 360    | 45     | 45     | 65     | 1800 |   |   |
| 61768 | 34    |          | 375    | 48     | 48     |        | 2000 |   |   |
| 61772 | 36    |          | 395    | 50     | 50     |        | 2200 |   |   |
| 61770 | 38    |          | 400    |        |        | 70     |      |   |   |

Medidas aproximadas / Approximate measurements / Mesures approximatives | DIN 475

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

12 x 6

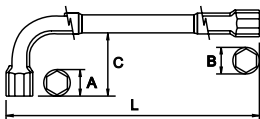
**INCH**


| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | g   |  |   |
|-------|---------|--------|--------|--------|--------|-----|--|---|
| 58143 | 3/8     | 130    | 15     | 15     | 24     | 90  |  |   |
| 58144 | 1/2     | 150    | 19     | 19     | 30     | 170 |  |   |
| 58145 | 5/8     | 180    | 24     | 24     | 37     | 270 |  | • |
| 58146 | 11/16   | 200    | 26     | 26     | 40     | 320 |  |   |
| 58148 | 7/8     | 245    | 34     | 34     | 50     | 650 |  |   |
| 58147 | 15/16   | 255    | 28     |        | 55     | 660 |  |   |

DIN 475

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

6 x 6


**MM**


| COD.  | AF mm | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | g   |  |   |
|-------|-------|---------|--------|--------|--------|--------|-----|--|---|
| 61166 | 5,5   | 7/32 *  | 110    | 11     | 11     | 18     | 50  |  |   |
| 61170 | 6     |         |        |        |        |        |     |  |   |
| 61171 | 7     |         | 115    | 12     | 12     | 21     |     |  |   |
| 61172 | 8     | 5/16 *  | 120    | 13     | 13     |        | 60  |  |   |
| 61173 | 9     |         | 125    | 14     | 14     | 22     | 70  |  |   |
| 61174 | 10    | 25/64 * | 130    | 16     | 16     | 26     | 100 |  | • |
| 61175 | 11    | 7/16 *  | 135    | 17     | 17     |        | 140 |  |   |
| 61176 | 12    | 15/32 * | 145    | 18     | 18     | 27     | 160 |  |   |
| 61177 | 13    |         | 150    | 19     | 19     | 30     | 170 |  |   |
| 61178 | 14    | 35/64 * | 160    | 21     | 21     | 33     | 230 |  | C |


 A Cromado pulido espejo / Mirror polished chrome plating / Polie chromée / Verchromt geschliffen / Cromate lucide / Cromado pulido / Полированный хром  
 C TITACROM®

| COD.  | AP mm | AP inch  | L (mm) | A (mm) | B (mm) | C (mm) | g    |   |   |
|-------|-------|----------|--------|--------|--------|--------|------|---|---|
| 61179 | 15    |          | 175    | 22     | 22     | 35     | 230  |   |   |
| 61180 | 16    |          | 185    | 24     | 24     | 39     |      |   |   |
| 61181 | 17    |          | 200    | 25     | 25     |        | 290  |   |   |
| 61182 | 18    |          | 210    | 26     | 26     | 41     | 340  |   |   |
| 61183 | 19    | 3/4 *    | 220    | 28     | 28     | 44     | 400  |   |   |
| 61184 | 20    | 25/32 *  |        |        |        | 45     | 470  |   |   |
| 61185 | 21    |          | 230    | 30     | 30     |        | 500  |   |   |
| 61186 | 22    |          | 240    | 32     | 32     | 48     | 600  |   |   |
| 61187 | 23    | 29/32 *  | 250    | 33     | 33     |        | 700  |   |   |
| 61188 | 24    |          | 260    | 34     | 34     | 55     | 800  | 6 | C |
| 61189 | 25    |          | 280    | 36     | 36     |        | 1000 |   |   |
| 61190 | 26    |          | 290    | 37     | 37     |        | 1200 |   |   |
| 61191 | 27    | 1.1/16 * | 300    | 38     | 38     | 60     | 1300 |   |   |
| 61192 | 28    |          | 310    | 39     | 39     |        | 1500 |   |   |
| 61193 | 29    | 1.9/64 * | 320    | 41     | 41     |        | 1800 |   |   |
| 61194 | 30    | 1.3/16 * | 330    | 42     | 42     |        | 2000 |   |   |
| 61195 | 32    |          | 360    | 45     | 45     | 65     | 2200 |   |   |
| 61769 | 34    |          | 370    | 48     | 48     |        |      |   |   |
| 61773 | 36    |          | 390    |        |        |        |      |   |   |
| 61771 | 38    |          | 400    | 50     | 50     | 70     |      |   |   |

**TITACROM®** | Medidas aproximadas / Approximate measurements / Mesures approximatives | DIN 475

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

6 x 6

**KIT-8 PCS.**
**MM**

| COD.  | PCS. |   | COD. PCS. | (mm)                                                   |
|-------|------|---|-----------|--------------------------------------------------------|
| 68597 | A    | 8 | 90057     | 61872, 61874, 61875, 61877, 61881, 61883, 61886, 61888 |
| 68598 | C    |   |           | 61172, 61174, 61175, 61177, 61181, 61183, 61186, 61188 |
|       |      |   |           | 8-10-11-13-17-19-22-24                                 |
|       |      |   |           | 12 x 6                                                 |
|       |      |   |           | 6 x 6                                                  |


**KIT-10 PCS.**
**MM**

| COD.  | PCS. |    | COD. PCS. | (mm)                                                                 |
|-------|------|----|-----------|----------------------------------------------------------------------|
| 69351 | A    | 10 | 90058     | 61872, 61873, 61874, 61875, 61876, 61877, 61878, 61881, 61883, 61885 |
| 69353 | C    |    |           | 61172, 61173, 61174, 61175, 61176, 61177, 61178, 61181, 61183, 61185 |
|       |      |    |           | 8-9-10-11-12-13-14-17-19-21                                          |
|       |      |    |           | 12 x 6                                                               |
|       |      |    |           | 6 x 6                                                                |



**MM**

| COD.  | PCS. |    | COD. PCS. | (mm)                                                                 |
|-------|------|----|-----------|----------------------------------------------------------------------|
| 68599 | A    | 10 | 90054     | 61872, 61874, 61875, 61876, 61877, 61878, 61880, 61881, 61882, 61883 |
| 68600 | C    |    |           | 61172, 61174, 61175, 61176, 61177, 61178, 61180, 61181, 61182, 61183 |
|       |      |    |           | 8-10-11-12-13-14-16-17-18-19                                         |
|       |      |    |           | 12 x 6                                                               |
|       |      |    |           | 6 x 6                                                                |






**KIT-15 PCS.**
**MM**

| COD.         | PCS. |  | COD. PCS. | (mm)                                                                                                          |                                                 |        |
|--------------|------|-----------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------|
| <b>68601</b> | A    | 15                                                                                | 90061     | 61872, 61874, 61875, 61876, 61877, 61878,<br>61879, 61880, 61881, 61882, 61883, 61885,<br>61886, 61887, 61888 | 8-10-11-12-13-14-15-16-17-18-19-21-22-<br>23-24 | 12 x 6 |
| <b>68602</b> | C    |                                                                                   |           | 61172, 61174, 61175, 61176, 61177, 61178,<br>61179, 61180, 61181, 61182, 61183, 61185,<br>61186, 61187, 61188 | 6 x 6                                           |        |


**KIT-22 PCS.**
**MM**

| COD.         | PCS. |  | COD. PCS. | (mm)                                                                                                                                                              |                                                                     |        |
|--------------|------|-----------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------|
| <b>68603</b> | A    | 22                                                                                | 90167     | 61872, 61873, 61874, 61875, 61876, 61877,<br>61878, 61879, 61880, 61881, 61882, 61883,<br>61885, 61886, 61887, 61888, 61890, 61891,<br>61892, 61893, 61894, 61895 | 8-9-10-11-12-13-14-15-16-17-18-19-21-22-<br>23-24-26-27-28-29-30-32 | 12 x 6 |
| <b>68604</b> | C    |                                                                                   |           | 61172, 61173, 61174, 61175, 61176, 61177,<br>61178, 61179, 61180, 61181, 61182, 61183,<br>61185, 61186, 61187, 61188, 61190, 61191,<br>61192, 61193, 61194, 61195 | 6 x 6                                                               |        |


**EXPOSITORES / DISPLAYS / PRESENTOIRS / DISPLAY / ESPOSITORI / DISPLAY STAND / СТЕНДЫ**
**54 PCS.**
**MM**

| COD.         | PCS. | COD. PCS. | (mm)   |       |
|--------------|------|-----------|--------|-------|
| <b>55570</b> | A    | 54        | 12 x 6 |       |
|              | PCS. | COD. PCS. |        |       |
|              | 6    | 61872     | 8 mm   |       |
|              |      | 61873     | 9 mm   |       |
|              |      | 61874     | 10 mm  |       |
|              |      | 61875     | 11 mm  |       |
|              |      | 61876     | 12 mm  |       |
|              |      | 61877     | 13 mm  |       |
|              |      | 61878     | 14 mm  |       |
|              |      | 61881     | 17 mm  |       |
|              |      | 4         | 61883  | 19 mm |
|              |      |           | 61885  | 21 mm |

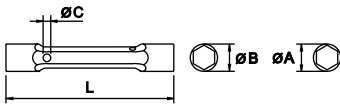

**MM**

| COD.         | PCS. | COD. PCS. | (mm)  |       |
|--------------|------|-----------|-------|-------|
| <b>55571</b> | C    | 54        | 6 x 6 |       |
|              | PCS. | COD. PCS. |       |       |
|              | 6    | 61172     | 8 mm  |       |
|              |      | 61173     | 9 mm  |       |
|              |      | 61174     | 10 mm |       |
|              |      | 61175     | 11 mm |       |
|              |      | 61176     | 12 mm |       |
|              |      | 61177     | 13 mm |       |
|              |      | 61178     | 14 mm |       |
|              |      | 4         | 61181 | 17 mm |
|              |      |           | 61183 | 19 mm |
|              |      |           | 61185 | 21 mm |



**DE TUBO DOBLE BOCA / SOCKET DOUBLE ENDED / CLÉ À TUBE FORGÉE DROITE / DOPPEL-STECKSCHLÜSSEL / CHIAVI A TUBO / DIRITTE TUBOLARES BOCA DUPLA / ДВОЙНАЯ ГОЛОВКА**

MM



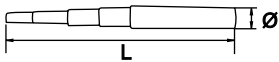
| COD.  | AF mm | L (mm) | A (mm) | B (mm) | Ø C (mm) | g   |    |   |
|-------|-------|--------|--------|--------|----------|-----|----|---|
| 61824 | 6-7   | 105    | 10     | 11     |          | 30  |    |   |
| 61825 | 8-9   | 110    | 13     | 14     | 3        | 50  |    |   |
| 61826 | 10-11 | 120    | 15     | 16     | 5        | 80  |    |   |
| 61827 | 12-13 | 140    | 18     | 19     | 6        | 140 |    |   |
| 61828 | 14-15 | 145    | 20     | 22     | 6        | 155 | 10 | • |
| 61829 | 16-17 | 155    | 23     | 24     | 7        | 180 |    |   |
| 61830 | 18-19 | 165    | 25     | 26     | 8        | 230 |    |   |
| 61831 | 20-22 | 170    | 28     | 30     | 8        | 290 |    |   |
| 61832 | 21-23 | 185    | 29     | 31     | 10       | 340 |    |   |
| 61833 | 24-26 | 190    | 33     | 33     |          | 430 |    |   |
| 61838 | 24-27 | 190    | 33     | 35     | 12       | 430 | 6  | - |
| 61834 | 25-28 | 200    | 34     | 37     | 12       | 500 | 6  | - |
| 61835 | 27-29 | 210    | 37     | 39     |          | 550 |    |   |
| 61836 | 30-32 | 210    | 40     | 42     | 13       | 700 |    |   |



TITACROM® | DIN 896-A

**PASADOR ESCALONADO / STEP TOMMY BAR / BROCHE POUR CLÉ À TUBE / STUFEN-DREHSTIFT FÜR DOPPEL-STECKSCHLÜSSEL / PUNZONE SFALSATO / PASSADOR ESCALONADO / ВОРОТОК СТУПЕНЧАТЫЙ**

MM



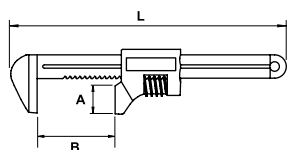
| COD.  | L (mm) | O.D. mm                  | g   |
|-------|--------|--------------------------|-----|
| 61794 | 180    | 2,5-4,5-5,5-6            | 30  |
| 61795 | 280    | 6,5-7,5-9,5-11,5-12,5-13 | 200 |



SET

MM

| COD.  | PCS. |       | COD. PCS.                                              | (mm)                                               |
|-------|------|-------|--------------------------------------------------------|----------------------------------------------------|
| 69489 | 6    | 90052 | 61824, 61825, 61826, 61827, 61828, 61829               | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17               |
| 69272 | 8    | 90057 | 61824, 61825, 61826, 61827, 61828, 61829, 61830, 61831 | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22 |

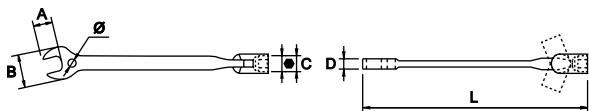

**LLAVE DE CREMALLERA / AUTO WRENCH / CLÉ À CREMAILLÈRE / VERSTELLBARE ROHRZANGE / CHIAVE A CREMAGLIERA / CHAVE DE CREMALHEIRA / РАЗВОДНОЙ КЛЮЧ АВТОМОБИЛЬНЫЙ**


| COD.  | L (mm) | L (inch) | A (mm) | B (mm) | g    |   |
|-------|--------|----------|--------|--------|------|---|
| 62028 | 230    | 9        | 30     | 68     | 500  | 5 |
| 62029 | 280    | 11       | 41     | 75     | 750  |   |
| 62030 | 375    | 15       | 49     | 90     | 1500 | 1 |

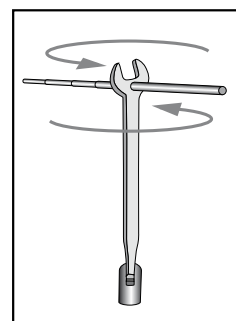


**LLAVES ARTICULADAS / SWIVEL WRENCHES / CLÉS ARTICULÉES / SCHWENKSCHLÜSSEL / CHIAVI ARTICOLATE / CHAVES ARTICULADAS / КЛЮЧИ С ШАРНИРНЫМИ ГОЛОВКАМИ**
**LLAVE COMBINADA CON VASO ARTICULADO / FLEXIBLE SOCKET COMBINATION SPANNER / CLÉ MIXTE À DOUILLE ARTICULÉE / MAUL GELENK STECKSCHLÜSSEL / CHIAVI COMBINATE CON BUSSOLA ARTICOLATA / CHAVE COMBINADA COM CAIXA ARTICULADA / КОМБИНИРОВАННЫЙ КЛЮЧ**

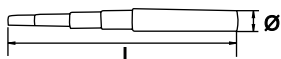
MM



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | O.D. mm | g   | Icon 1 | Icon 2 |
|-------|-------|--------|--------|--------|--------|--------|---------|-----|--------|--------|
| 56190 | 10    | 180    | 12     | 25     | 15     | 5,5    |         | 95  |        |        |
| 56191 | 11    | 190    | 14     | 27     | 17     | 6      |         | 115 |        |        |
| 56192 | 12    | 215    | 15     | 31     | 18     | 6,5    | 6       | 145 | 10     | ●      |
| 56193 | 13    |        |        |        | 19     |        |         | 150 |        |        |
| 56194 | 14    | 220    | 16     | 32     | 20     | 8      | 7       | 185 |        |        |
| 56195 | 15    |        |        |        | 24     |        |         | 230 |        |        |
| 56196 | 17    | 235    | 19     | 38     |        |        |         | 230 |        |        |
| 56197 | 19    | 250    | 20     | 41     | 26     | 9      |         | 320 |        |        |


**PASADOR ESCALONADO / STEP TOMMY BAR / BROCHE POUR CLÉ À TUBE / STUFEN-DREHSTIFT FÜR DOPPEL-STECKSCHLÜSSEL / PUNZONE SFALSATO / PASSADOR ESCALONADO / ВОРОТОК СТУПЕНЧАТЫЙ**

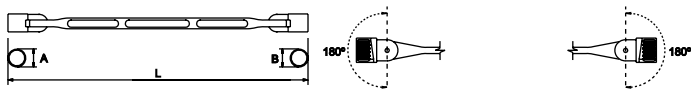
MM



| COD.  | L (mm) | O.D. mm                  | g   |
|-------|--------|--------------------------|-----|
| 61794 | 180    | 2,5-4,5-5,5-6            | 30  |
| 61795 | 280    | 6,5-7,5-9,5-11,5-12,5-13 | 200 |


**DE VASO DOBLE ARTICULACIÓN / DOUBLE ENDED SWIVEL / CLÉ À TUBE ARTICULÉE / DOPPEL-GELENKSTECKSCHLÜSSEL / CHIAVE A BUSSOLA DOPPA SNODABILE / DE CAIXA ARTICULADAS / КЛЮЧ ДВОЙНАЯ ГОЛОВКА ШАРНИРНАЯ**

MM



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | g   | Icon 1 | Icon 2 |
|-------|-------|--------|--------|--------|-----|--------|--------|
| 61301 | 8-9   | 200    | 12     | 13     | 100 |        |        |
| 61302 | 10-11 | 210    | 15     | 16     | 110 |        |        |
| 61303 | 12-13 | 230    | 19     | 19     | 155 | 10     |        |
| 61304 | 14-15 | 240    | 21     | 21     | 200 |        |        |
| 61305 | 16-17 | 250    | 23     | 24     | 280 |        |        |
| 61306 | 18-19 | 270    | 26     | 26     | 390 |        |        |
| 61308 | 20-22 | 290    | 28     | 30     | 480 | 5      |        |
| 61309 | 21-23 |        | 32     | 32     | 470 |        |        |
| 61310 | 24-27 | 330    | 32     | 36     | 700 |        |        |



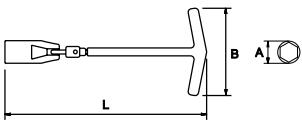
■ KIT-6

■ MM

| COD.         | PCS. | COD. PCS.                                | (mm)                                   | Kg  |   |
|--------------|------|------------------------------------------|----------------------------------------|-----|---|
| <b>69185</b> | 6    | 61301, 61302, 61303, 61304, 61305, 61306 | 8-9, 10-11, 12-13, 14-15, 16-17, 18-19 | 1,6 | ● |



**DE BUJÍA ARTICULADA / SPARK PLUG WRENCH / CLÉS À BOUGIE ART. / ZÜNDKERZENSCHLÜSSEL / CHIAVI PER CANDELE SNODABILE / CHAVE ARTICULADA PARA VELAS / СВЕЧНОЙ КЛЮЧ**



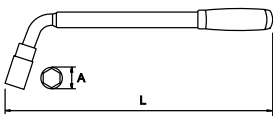
| COD.         | AF inch  | L (mm) | A (mm) | B (mm) | g   |   |   |
|--------------|----------|--------|--------|--------|-----|---|---|
| <b>61471</b> | 20-13/16 | 230    | 28     | 100    | 250 | 8 | ● |

DIN 3112



**EXTENSIBLE PARA RUEDAS / EXTENSIBLE WHEEL WRENCH / CLÉS À ROUES EXTENSIBLE / AUSZIEHBARER RADMUTTERNSCHLÜSSEL / CHIAVE ESTENSIBILE PER RUOTE / EXTENSIVEL PARA RODAS / РАЗДВИЖНОЙ БАЛОННЫЙ КЛЮЧ**

■ MM

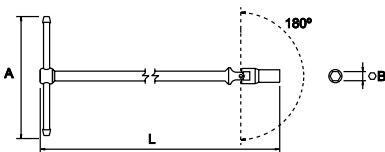


| COD.         | AF mm | L (mm) | A (mm) | g   |   |
|--------------|-------|--------|--------|-----|---|
| <b>61476</b> | 17-19 | 550    | 28     | 800 | 3 |

DIN 3112



**LLAVES ARTICULADAS EN T / T-HANDLE WRENCHES WITH UNIVERSAL JOINT / CLÉ À BEQUILLE ARTICULÉE / KARDAN GELENKSCHLÜSSEL / CHIAVE A T CON SNODO CARDANICO / CHAVES T COM CARDAN / Т-ОБРАЗНЫЙ КЛЮЧ С ШАРНИРНОЙ ГОЛОВКОЙ**

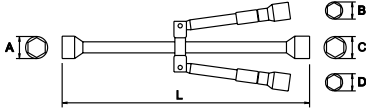


| COD.         | AF mm | AF inch | L (mm) | A (mm) | B (mm) | g   |    |   |
|--------------|-------|---------|--------|--------|--------|-----|----|---|
| <b>61840</b> | 6     | -       |        |        | 10     |     |    |   |
| <b>61841</b> | 7     | -       |        |        | 11     |     |    |   |
| <b>61842</b> | 8     | 5/16 *  | 390    | 165    | 12     | 220 |    |   |
| <b>61843</b> | 9     | 11/32 * |        |        | 14     |     |    |   |
| <b>61844</b> | 10    | -       |        |        | 15     |     |    |   |
| <b>61845</b> | 11    | -       |        |        | 17     |     |    |   |
| <b>61846</b> | 12    | 15/32 * | 450    |        | 18     | 420 |    |   |
| <b>61847</b> | 13    | 1/2 *   |        |        | 19     |     |    |   |
| <b>61848</b> | 14    | -       |        | 180    | 20     |     |    |   |
| <b>61849</b> | 15    | 19/32 * |        |        | 22     |     | 10 | ● |
| <b>61850</b> | 16    | 5/8 *   |        |        | 23     |     |    |   |
| <b>61851</b> | 17    | 21/32 * |        |        | 24     | 480 |    |   |
| <b>61852</b> | 18    | -       |        |        | 25     |     |    |   |
| <b>61853</b> | 19    | 3/4 *   | 500    |        | 27     |     |    |   |
| <b>61854</b> | 20    | 25/32 * |        |        | 28     |     |    |   |
| <b>61855</b> | 21    | 13/16 * |        | 230    | 29     | 850 |    |   |
| <b>61856</b> | 22    | -       |        |        | 31     |     |    |   |
| <b>61858</b> | 24    | 15/16 * |        |        | 33     |     |    |   |



Medidas aproximadas / Approximate measurements / Mesures approximatives

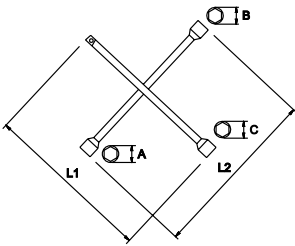
**EN CRUZ PLEGABLE / FOLDING CROSS RIM WRENCH / CLÉ EN CROIX Pliable / KREUZSCHLÜSSEL, KLAPPBAR / CHIAVE A CROCE PIEGABILE / CHAVE EM CRUZ DOBRAVEL / СКЛАДНОЙ БАЛОННЫЙ КЛЮЧ**



| COD.         | AF mm       | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g    |   |
|--------------|-------------|--------|--------|--------|--------|--------|------|---|
| <b>61477</b> | 17-19-21-23 | 355    | 30     | 26     | 32     | 28     | 1300 | 1 |



**EN CRUZ / CROSS RIM WRENCH / CLÉ EN CROIX / KREUZSCHLÜSSEL / CHIAVE A CROCE / CHAVE DE CRUZETA / КРЕСТОБРАЗНЫЙ БАЛОННЫЙ КЛЮЧ**



| COD.         | AF mm    | AF inch | L1 (mm) | L2 (mm) | A (mm) | B (mm) | C (mm) | g    |   |
|--------------|----------|---------|---------|---------|--------|--------|--------|------|---|
| <b>61475</b> | 17-19-22 | 1/2     | 350     | 350     | 28     | 26     | 31     | 1150 | 1 |

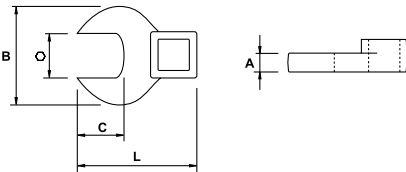
DIN 3119



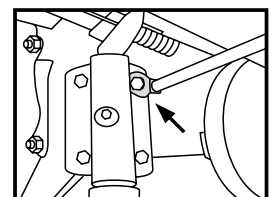
**LLAVE FIJA CROWFOOT / OPEN END CROWFOOT WRENCH / CLÉ À FOURCHE CROWFOOT / EINSTECK-MAULSCHLÜSSEL / CHIAVE FISSA CROWFOOT / PONTEIRA DE BOCA COM QUADRADO INTERIOR / РОЖКОВЫЙ КЛЮЧ С КВАДРАТОМ**

1/4"

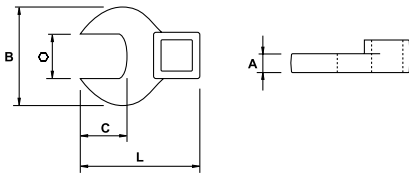
MM



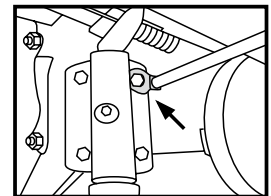
| COD.         | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | g  |    |   |
|--------------|-------|--------|--------|--------|--------|----|----|---|
| <b>57211</b> | 7     | 30     | 6      | 25     | 6      | 70 | 10 | ● |
| <b>57212</b> | 8     | 31     |        | 26     | 7      |    |    |   |
| <b>57213</b> | 9     | 33     |        | 28     | 8      |    |    |   |
| <b>57214</b> | 10    | 35     | 7      | 30     | 9      | 90 |    |   |
| <b>57215</b> | 11    | 36     |        | 31     | 11     |    |    |   |
| <b>57216</b> | 12    | 38     |        | 34     | 12     |    |    |   |
| <b>57217</b> | 13    | 39     |        | 35     | 13     | 95 |    |   |



## INCH

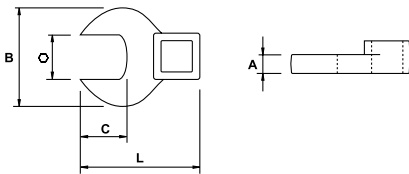


| COD.  | AP inch | L (mm) | A (mm) | B (mm) | C (mm) | g   |    |   |
|-------|---------|--------|--------|--------|--------|-----|----|---|
| 57218 | 5/16    | 31     |        | 26     | 7      | 70  |    |   |
| 57219 | 3/8     | 33     | 6      | 28     | 8      |     |    |   |
| 57220 | 7/16    | 35     |        | 30     | 9      | 75  | 10 | • |
| 57221 | 1/2     | 38     | 7      | 34     | 12     | 92  |    |   |
| 57222 | 9/16    | 39     |        | 36     | 14     | 100 |    |   |

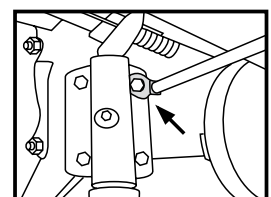


## 3/8"

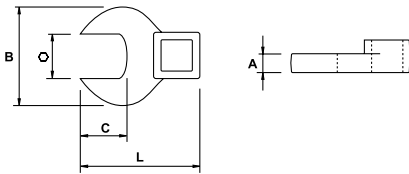
## MM



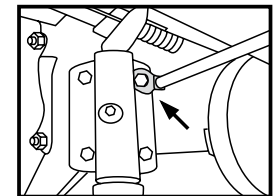
| COD.  | AP mm | L (mm) | A (mm) | B (mm) | C (mm) | g   |    |   |
|-------|-------|--------|--------|--------|--------|-----|----|---|
| 55710 | 10    | 36     | 6      | 24     | 10     | 28  |    |   |
| 55711 | 11    | 39     | 6,5    | 26     | 13     | 35  |    |   |
| 55712 | 12    | 40     | 7,2    | 28     | 14     | 40  |    |   |
| 55713 | 13    | 42     | 8,3    | 30     | 15     | 41  |    |   |
| 55714 | 14    | 46     | 8,4    | 34     | 17     | 50  |    |   |
| 55715 | 15    | 48     | 8,8    | 36     | 18     | 56  | 10 | • |
| 55716 | 16    | 50     | 9      | 40     | 21     | 62  |    |   |
| 55717 | 17    | 55     | 9,5    | 46     | 22,5   | 80  |    |   |
| 55718 | 19    | 55     | 9,5    | 46     | 23,5   | 100 |    |   |
| 55719 | 21    | 65     | 10     | 54     | 25,5   | 140 |    |   |
| 55720 | 22    |        |        |        | 26,5   | 200 |    |   |
| 55721 | 24    |        |        |        | 25,5   | 140 |    |   |
| 55722 | 25    |        |        |        | 26,5   | 200 |    |   |
| 55723 | 27    |        |        |        | 28,5   | 200 |    |   |



## INCH

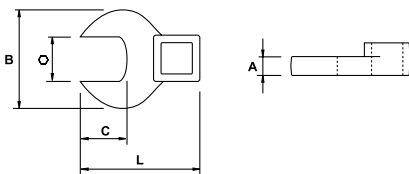


| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | g   |    |   |
|-------|---------|--------|--------|--------|--------|-----|----|---|
| 55724 | 3/8     | 36     | 6      | 24     | 10     | 28  |    |   |
| 55725 | 7/16    | 39     | 6,5    | 26     |        |     |    |   |
| 55726 | 1/2     | 40     | 7,2    | 28     | 14     | 40  |    |   |
| 55727 | 9/16    | 42     | 8,3    | 30     |        |     |    |   |
| 55728 | 5/8     | 46     | 8,4    | 34     | 17     | 50  |    |   |
| 55729 | 11/16   | 48     | 8,8    | 36     | 18     | 56  |    |   |
| 55730 | 3/4     | 50     | 9      | 40     | 21     | 62  | 10 | ● |
| 55731 | 13/16   |        |        |        | 21,5   | 80  |    |   |
| 55732 | 7/8     | 55     | 9,5    | 46     | 22,5   | 100 |    |   |
| 55733 | 15/16   |        |        |        | 25,5   | 140 |    |   |
| 55734 | 1       | 65     | 10     | 54     | 26,5   |     |    |   |
| 55735 | 1.1/16  |        |        |        | 28,5   | 200 |    |   |

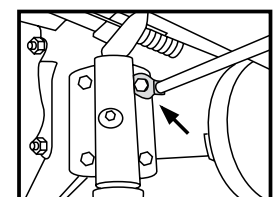


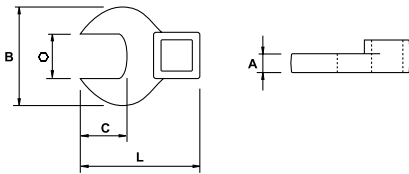
## 1/2"

## MM

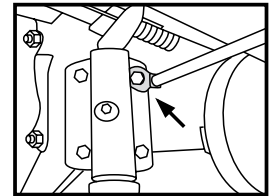


| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | g   |    |   |
|-------|-------|--------|--------|--------|--------|-----|----|---|
| 57224 | 20    |        |        | 42     | 19     | 150 |    |   |
| 57225 | 21    | 50     |        |        |        |     |    |   |
| 57226 | 22    |        |        | 43     | 20     |     |    |   |
| 57227 | 23    | 55     |        | 45     | 21     |     |    |   |
| 57228 | 24    |        |        | 46     | 22     | 160 |    |   |
| 57229 | 25    |        | 12     | 47     | 23     |     |    |   |
| 57230 | 26    | 60     |        | 49     | 24     | 185 |    |   |
| 57231 | 27    |        |        | 50     | 25     | 190 |    |   |
| 57232 | 28    | 65     |        | 55     | 26     | 200 |    |   |
| 57233 | 29    |        |        |        | 27     |     |    |   |
| 57234 | 30    |        |        |        | 28     | 210 |    |   |
| 57235 | 31    | 70     |        | 60     | 29     | 220 |    |   |
| 57236 | 32    |        |        |        | 30     | 230 |    |   |
| 57237 | 33    |        |        | 65     | 31     | 250 | 10 | ● |
| 57238 | 34    |        |        |        | 32     | 260 |    |   |
| 57239 | 35    | 75     |        |        | 33     |     |    |   |
| 57240 | 36    |        |        | 70     | 34     | 270 |    |   |
| 57241 | 37    |        |        |        | 35     |     |    |   |
| 57242 | 38    | 80     |        | 75     | 36     | 280 |    |   |
| 57243 | 39    |        | 14     |        | 37     | 290 |    |   |
| 57244 | 40    |        |        |        | 38     | 300 |    |   |
| 57245 | 41    | 85     |        | 80     | 39     | 320 |    |   |
| 57246 | 42    |        |        |        | 40     |     |    |   |
| 57247 | 43    |        |        |        | 41     | 330 |    |   |
| 57248 | 44    | 90     |        | 85     | 42     | 340 |    |   |
| 57249 | 45    |        |        |        | 43     | 360 |    |   |
| 57250 | 46    | 95     | 15     | 90     | 44     | 380 |    |   |



**INCH**


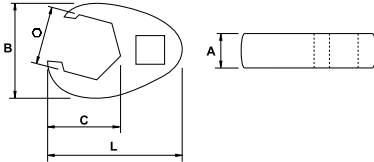
| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | g   |    |   |
|-------|---------|--------|--------|--------|--------|-----|----|---|
| 57251 | 15/16   | 55     | 12     | 45     | 21     | 160 | 10 | ● |
| 57252 | 1       | 60     |        | 47     | 23     |     |    |   |
| 57253 | 1.1/16  | 60     |        | 50     | 25     |     |    |   |
| 57254 | 1.1/8   | 65     |        | 50     | 26     |     |    |   |
| 57255 | 1.3/16  | 70     |        | 60     | 28     |     |    |   |
| 57256 | 1.1/4   | 70     |        | 65     | 30     |     |    |   |
| 57257 | 1.5/16  | 75     |        | 70     | 31     |     |    |   |
| 57258 | 1.3/8   | 75     | 70     | 33     | 260    |     |    |   |
| 57259 | 1.7/16  | 80     | 14     | 70     | 34     | 270 |    |   |
| 57260 | 1.1/2   | 80     |        | 75     | 36     | 280 |    |   |
| 57261 | 1.9/16  | 85     |        | 80     | 37     | 290 |    |   |
| 57262 | 1.5/8   | 85     |        | 80     | 39     | 320 |    |   |
| 57263 | 1.11/16 | 90     |        | 84     | 41     | 330 |    |   |
| 57264 | 1.3/4   | 90     |        | 84     | 42     | 340 |    |   |
| 57265 | 1.13/16 | 95     |        | 90     | 44     | 380 |    |   |
| 57266 | 1.7/8   | 95     | 90     | 45     | 400    |     |    |   |
| 57267 | 1.15/16 | 100    | 15     | 46     | 430    |     |    |   |
| 57268 | 2       | 100    |        | 95     | 49     | 460 |    |   |
| 57269 | 2.1/16  | 105    |        | 100    | 50     | 500 |    |   |
| 57270 | 2.1/8   | 105    |        | 100    | 50     | 600 |    |   |
| 57271 | 2.3/16  | 105    |        | 105    | 55     | 700 |    |   |
| 57272 | 2.1/4   | 110    |        | 110    | 60     | 750 |    |   |
| 57273 | 2.5/16  | 110    |        | 110    | 60     | 850 |    |   |
| 57274 | 2.3/8   |        |        |        |        |     |    |   |
| 57275 | 2.7/16  |        |        |        |        |     |    |   |
| 57276 | 2.1/2   |        |        |        |        |     |    |   |



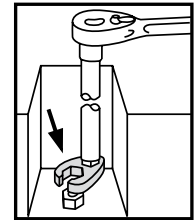
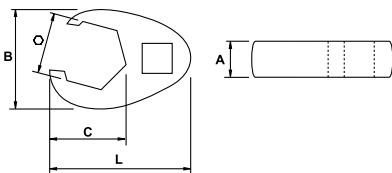
# EGGA Master

## ART IN INNOVATION

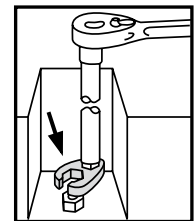


**LLAVE HEXAGONAL CROWFOOT / HEXAGONAL CROWFOOT WRENCH / CLÉ MÂLE CROWFOOT / SECHSKANT-EINSTECK-MAULSCHLÜSSEL / CHIAVE ESAGONALE CROWFOOT / PONTEIRA HEXAGONAL COM QUADRADO INTERIOR / РОЖКОВЫЙ ШЕСТИГРАННЫЙ КЛЮЧ С КВАДРАТОМ**
**3/8"**
**MM**


| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | g   |    |   |
|-------|-------|--------|--------|--------|--------|-----|----|---|
| 55736 | 10    |        |        |        | 16     | 28  |    |   |
| 55737 | 11    | 38     | 7,8    | 31     |        |     |    |   |
| 55738 | 12    |        | 8      |        | 18     | 35  |    |   |
| 55739 | 13    |        |        |        |        | 40  |    |   |
| 55740 | 14    |        |        |        |        | 41  |    |   |
| 55741 | 15    | 41     | 9      | 33     | 21     | 50  |    |   |
| 55742 | 16    |        |        |        |        |     | 10 | • |
| 55743 | 17    | 45     |        |        | 24     | 56  |    |   |
| 55744 | 19    | 46     | 10,5   | 36     | 25     | 62  |    |   |
| 55745 | 21    |        |        |        |        | 80  |    |   |
| 55746 | 22    | 50     | 11     | 40     | 28,5   | 100 |    |   |
| 55747 | 24    |        |        |        |        | 140 |    |   |
| 55748 | 25    | 55     | 11,5   | 45     | 34     |     |    |   |
| 55749 | 27    |        |        |        |        | 200 |    |   |


**INCH**


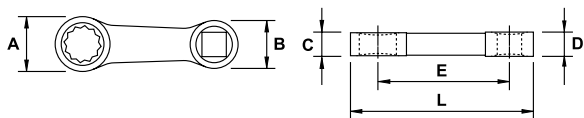
| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | g   |    |   |
|-------|---------|--------|--------|--------|--------|-----|----|---|
| 55750 | 3/8     |        |        |        | 16     | 28  |    |   |
| 55751 | 7/16    | 38     | 7,8    | 31     |        |     |    |   |
| 55752 | 1/2     |        | 8      |        | 18     | 40  |    |   |
| 55753 | 9/16    | 41     | 9      | 33     | 21     | 41  |    |   |
| 55754 | 5/8     |        |        |        |        | 50  |    |   |
| 55755 | 11/16   | 46     | 10,5   | 36     | 24     | 56  |    |   |
| 55756 | 3/4     |        |        |        | 25     | 62  | 10 | • |
| 55757 | 13/16   | 50     | 11     | 40     | 28,5   | 80  |    |   |
| 55758 | 7/8     |        |        |        |        | 100 |    |   |
| 55759 | 15/16   |        |        |        |        | 140 |    |   |
| 55760 | 1       | 55     | 11,5   | 45     | 34     |     |    |   |
| 55761 | 1.1/16  |        |        |        |        | 200 |    |   |



## ADAPTADOR DE PAR / TORQUE ADAPTER / ADAPTATEUR DE COUPLE / DREHMOMENT ADAPTOR / ADATTATORE DI COPPIA / ADAPTADOR DE PAR / АДАПТЕР КРУТЯЩЕГО МОМЕНТА

3/8"

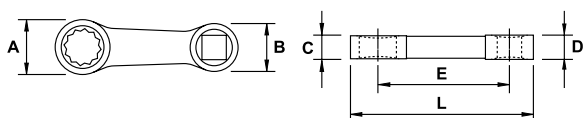
MM



| COD.  | AF mm | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g  | Icon 1 | Icon 2 |
|-------|-------|---------|--------|--------|--------|--------|--------|--------|----|--------|--------|
| 57315 | 8     |         |        |        |        |        |        | 50     |    |        |        |
| 57316 | 10    | 3/8     | 73     | 20     | 19     | 9      | 12     | 52     | 60 | 10     | ●      |
| 57317 | 13    |         |        | 24     |        | 11,5   |        |        |    |        |        |



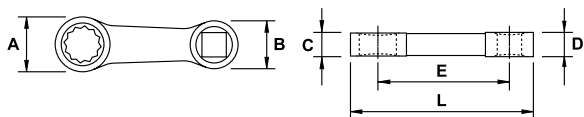
INCH



| COD.  | AF inch | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g  | Icon 1 | Icon 2 |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|----|--------|--------|
| 57318 | 5/16    |         |        |        |        |        |        | 50     |    |        |        |
| 57319 | 3/8     |         |        | 20     |        | 9      |        |        |    |        |        |
| 57320 | 7/16    | 3/8     | 73     |        | 19     |        | 12     | 52     | 60 | 10     | ●      |
| 57321 | 1/2     |         |        | 24     |        | 12     |        |        |    |        |        |
| 57322 | 9/16    |         |        |        |        |        |        |        |    |        |        |







SPLINE

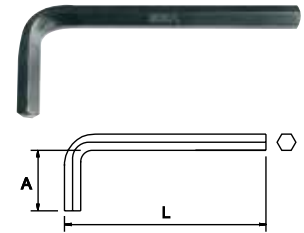


| COD.  | Icon 1 | AF inch | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g  | Icon 1 | Icon 2 |
|-------|--------|---------|---------|--------|--------|--------|--------|--------|--------|----|--------|--------|
| 57323 | M7     | 7/32    |         |        |        |        |        |        |        |    |        |        |
| 57324 | M8     | 1/4     |         |        |        |        |        |        |        |    |        |        |
| 57325 | M9     | 9/32    |         |        | 20     |        | 9      |        | 50     |    |        |        |
| 57326 | M10    | 5/16    |         |        |        |        |        |        |        |    |        |        |
| 57327 | M12    | 3/8     | 3/8     | 73     |        | 19     |        | 12     | 52     | 60 | 10     | ●      |
| 57328 | M14    | 7/16    |         |        |        |        |        |        |        |    |        |        |
| 57329 | M16    | 1/2     |         |        |        |        |        |        |        |    |        |        |
| 57330 | M18    | 9/16    |         |        | 24     |        | 12     |        | 60     |    |        |        |
| 57331 | M20    | 5/8     |         |        |        |        |        |        |        |    |        |        |



**■ LLAVES EN "L" / "L" KEYS / CLÉS EN "L" / "L" FORM SCHLÜSSEL / CHIAVI ESAGONALI / CHAVES EM L / ШЕСТИГРАННЫЕ КЛЮЧИ**
**■ LLAVES HEXAGONALES / HEXAGONAL KEYS / CLÉS MÂLES / INBUSSCHLÜSSEL / CHIAVI ESAGONALI / CHAVES HEXAGONAIS / ШЕСТИГРАННИК**
**EGA**
**■ STANDARD**
**■ MM**

| COD.  |  | L (mm) | A (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 65302 | 0,9                                                                               | 33     | 10     | 0,2                                                                               |                                                                                   |                                                                                     |
| 65955 | 1,27                                                                              | 40     | 12     | 0,9                                                                               |                                                                                   |                                                                                     |
| 61501 | 1,5                                                                               | 46     | 14     | 1,0                                                                               |                                                                                   |                                                                                     |
| 61502 | 2                                                                                 | 50     | 16     | 2,0                                                                               |                                                                                   |                                                                                     |
| 61503 | 2,5                                                                               | 60     | 17     | 3,0                                                                               |                                                                                   |                                                                                     |
| 65956 | 2,7                                                                               | 55     |        | 4,5                                                                               |                                                                                   |                                                                                     |
| 61504 | 3                                                                                 | 65     | 20     | 5,0                                                                               |                                                                                   |                                                                                     |
| 65303 | 3,5                                                                               | 70     | 21     | 7,5                                                                               |                                                                                   |                                                                                     |
| 61505 | 4                                                                                 | 75     | 25     | 10                                                                                |                                                                                   |                                                                                     |
| 65304 | 4,5                                                                               | 80     | 26     | 14                                                                                |                                                                                   |                                                                                     |
| 61506 | 5                                                                                 | 85     | 28     | 15                                                                                |                                                                                   |                                                                                     |
| 61507 | 5,5                                                                               |        |        | 25                                                                                |                                                                                   |                                                                                     |
| 61508 | 6                                                                                 | 95     | 32     | 30                                                                                |                                                                                   |                                                                                     |
| 61527 | 7                                                                                 |        | 33     | 45                                                                                |                                                                                   |                                                                                     |
| 61509 | 8                                                                                 | 100    | 36     | 60                                                                                | 10                                                                                |                                                                                     |
| 65305 | 9                                                                                 | 115    | 38     | 80                                                                                |                                                                                   |                                                                                     |
| 61510 | 10                                                                                | 120    | 40     | 105                                                                               |                                                                                   |                                                                                     |
| 65306 | 11                                                                                | 130    |        | 130                                                                               |                                                                                   |                                                                                     |
| 65307 | 12                                                                                | 135    | 42     | 170                                                                               |                                                                                   |                                                                                     |
| 65519 | 13                                                                                | 145    | 44     | 190                                                                               |                                                                                   |                                                                                     |
| 65308 | 14                                                                                | 155    | 46     | 260                                                                               |                                                                                   |                                                                                     |
| 65958 | 15                                                                                | 160    |        | 310                                                                               |                                                                                   |                                                                                     |
| 65309 | 16                                                                                | 170    | 50     | 370                                                                               |                                                                                   |                                                                                     |
| 65310 | 17                                                                                | 175    |        | 440                                                                               |                                                                                   |                                                                                     |
| 65959 | 18                                                                                | 190    | 65     | 500                                                                               |                                                                                   |                                                                                     |
| 65311 | 19                                                                                |        |        | 650                                                                               |                                                                                   |                                                                                     |
| 65960 | 20                                                                                | 200    | 70     | 660                                                                               |                                                                                   |                                                                                     |
| 65312 | 21                                                                                | 210    |        | 800                                                                               |                                                                                   |                                                                                     |
| 65313 | 22                                                                                | 220    | 82     | 950                                                                               |                                                                                   |                                                                                     |
| 65314 | 24                                                                                | 250    | 90     | 1250                                                                              |                                                                                   |                                                                                     |
| 65961 | 27                                                                                | 280    | 100    | 1750                                                                              |                                                                                   |                                                                                     |
| 65962 | 30                                                                                | 320    | 110    | 2450                                                                              | 5                                                                                 |                                                                                     |
| 65963 | 32                                                                                | 350    | 120    | 3050                                                                              |                                                                                   |                                                                                     |
| 65964 | 36                                                                                | 390    | 135    | 4350                                                                              |                                                                                   |                                                                                     |
| 67629 | 38                                                                                |        | 140    | 4700                                                                              |                                                                                   |                                                                                     |
| 67630 | 41                                                                                | 380    | 150    | 5700                                                                              |                                                                                   |                                                                                     |
| 67631 | 46                                                                                |        | 160    | 7000                                                                              |                                                                                   |                                                                                     |
| 67632 | 48                                                                                | 410    | 165    | 7100                                                                              |                                                                                   |                                                                                     |
| 67633 | 50                                                                                |        | 175    | 9550                                                                              | 1                                                                                 |                                                                                     |
| 67634 | 55                                                                                | 450    | 185    | 11200                                                                             |                                                                                   |                                                                                     |
| 67635 | 60                                                                                | 470    | 195    | 14050                                                                             |                                                                                   |                                                                                     |
| 67636 | 65                                                                                | 480    | 200    | 15300                                                                             |                                                                                   |                                                                                     |
| 67637 | 70                                                                                | 500    | 210    | 16700                                                                             |                                                                                   |                                                                                     |



ISO 2936 | DIN 911

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

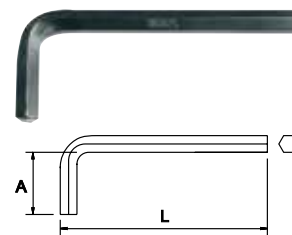
## INCH

| COD.  | AP inch | L (mm) | A (mm) | g    |    |   |
|-------|---------|--------|--------|------|----|---|
| 65315 | 1/16    | 46     | 15     | 0,9  |    |   |
| 65316 | 5/64    | 50     | 18     | 2,0  |    |   |
| 65317 | 3/32    | 60     | 20     | 3,0  |    |   |
| 65318 | 1/8     | 65     | 23     | 5,0  |    |   |
| 65319 | 5/32    | 75     | 29     | 10   |    |   |
| 65320 | 3/16    | 85     | 33     | 15   |    |   |
| 65321 | 7/32    | 95     | 38     | 25   |    |   |
| 65322 | 1/4     | 100    | 44     | 30   | 10 |   |
| 65323 | 5/16    | 120    | 50     | 60   |    | • |
| 65324 | 3/8     | 130    | 55     | 105  |    |   |
| 65325 | 7/16    | 140    | 70     | 170  |    |   |
| 65326 | 1/2     | 155    | 75     | 260  |    |   |
| 65327 | 9/16    | 170    | 90     | 370  |    |   |
| 65328 | 5/8     | 200    | 90     | 650  |    |   |
| 65329 | 3/4     | 240    | 90     | 950  |    |   |
| 67614 | 7/8     | 260    | 110    | 1250 |    |   |
| 67615 | 1       | 270    | 110    | 1750 | 5  |   |
| 67616 | 1.1/8   | 320    | 120    | 3050 |    |   |
| 67617 | 1.1/4   | 380    | 150    | 5700 | 1  |   |
| 67618 | 1.5/8   |        |        |      |    |   |

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## CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V



## SERIE LARGA / LONG PATTERN / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ДЛИННЫЙ

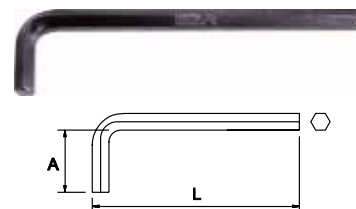
## MM

| COD.  | AP mm | L (mm) | A (mm) | g    |    |   |
|-------|-------|--------|--------|------|----|---|
| 61517 | 1,5   | 65     | 15     | 1,0  |    |   |
| 61518 | 2     | 75     | 18     | 2,0  |    |   |
| 61519 | 2,5   | 85     | 20     | 4,0  |    |   |
| 61520 | 3     | 95     | 23     | 7,0  |    |   |
| 67298 | 3,5   | 100    | 25     | 10   |    |   |
| 61521 | 4     | 105    | 29     | 15   |    |   |
| 67299 | 4,5   | 115    | 30     | 19   |    |   |
| 61522 | 5     | 120    | 33     | 25   |    |   |
| 61523 | 5,5   | 130    | 38     | 35   |    |   |
| 61524 | 6     | 140    | 41     | 40   |    |   |
| 61557 | 7     | 150    | 44     | 60   |    |   |
| 61525 | 8     | 160    | 47     | 80   | 10 |   |
| 65330 | 9     | 170    | 50     | 115  |    | • |
| 61526 | 10    | 180    | 55     | 140  |    |   |
| 65331 | 11    | 190    | 70     | 200  |    |   |
| 65332 | 12    | 200    | 75     | 260  |    |   |
| 67300 | 13    | 210    | 80     | 300  |    |   |
| 67301 | 14    | 230    | 85     | 400  |    |   |
| 67302 | 15    | 240    | 90     | 460  |    |   |
| 67303 | 16    | 260    | 95     | 500  |    |   |
| 67304 | 17    | 280    | 100    | 650  |    |   |
| 67305 | 19    | 310    | 115    | 850  |    |   |
| 67306 | 22    | 360    | 115    | 1300 | 1  |   |
| 67307 | 24    |        |        | 1750 |    |   |

ISO 2936 | DIN 911

## CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V



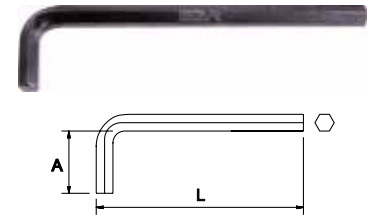
## INCH

| COD.  | AP inch | L (mm) | A (mm) | g    |    |  |
|-------|---------|--------|--------|------|----|--|
| 68900 | 1/16    |        | 14     | 1,6  |    |  |
| 68901 | 5/64    | 80     | 16     | 2,7  |    |  |
| 68902 | 3/32    | 85     | 17     | 4,5  |    |  |
| 68903 | 7/64    | 90     | 18     | 6,6  |    |  |
| 68904 | 1/8     | 95     | 19     | 8,3  |    |  |
| 68905 | 9/64    | 100    | 20     | 11   |    |  |
| 68906 | 5/32    | 105    | 21     | 14   | 10 |  |
| 68907 | 3/16    | 115    | 24     | 23   |    |  |
| 68908 | 7/32    | 125    | 26     | 32   |    |  |
| 68909 | 1/4     | 135    | 29     | 50   |    |  |
| 68910 | 5/16    | 150    | 32     | 80   |    |  |
| 68911 | 3/8     | 170    | 35     | 135  |    |  |
| 68912 | 7/16    | 190    | 38     | 210  |    |  |
| 67671 | 1/2     | 210    | 43     | 370  | 6  |  |
| 67672 | 5/8     | 250    | 50     | 690  |    |  |
| 67653 | 3/4     | 290    | 55     | 1300 |    |  |
| 67654 | 7/8     | 350    | 65     | 1750 |    |  |
| 67655 | 1       | 400    | 70     | 2300 |    |  |
| 67656 | 1.1/8   | 450    | 85     | 3750 | 1  |  |
| 67657 | 1.1/4   | 490    | 140    | 5800 |    |  |
| 67673 | 1.1/2   | 550    | 150    | 7100 |    |  |
| 67658 | 1.5/8   | 570    | 160    | 8800 |    |  |

ISO 2936 | DIN 911

## CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V


**BOLA SERIE LARGA / LONG PATTERN BALLPOINT / SÉRIE LONGUE À TÊTE SPHÉRIQUE / KUGELKOPF- INBUSSCHLÜSSEL / SERIE LUNGA CON TESTA SFERICA / ESFERICAS, SERIE LONGA / ДЛИННЫЙ С ШАРОВОЙ ГОЛОВКОЙ**

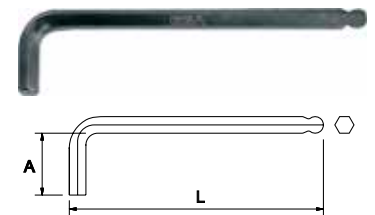
## MM

| COD.  | AP mm | L (mm) | A (mm) | g   |    |  |
|-------|-------|--------|--------|-----|----|--|
| 61615 | 1,5   | 65     | 15     | 1,0 |    |  |
| 61616 | 2     | 75     | 18     | 2,0 |    |  |
| 61617 | 2,5   | 85     | 20     | 3,0 |    |  |
| 61618 | 3     | 95     | 23     | 5,0 |    |  |
| 61619 | 4     | 105    | 29     | 10  |    |  |
| 61620 | 5     | 120    | 33     | 15  | 10 |  |
| 61621 | 5,5   | 130    | 38     | 25  |    |  |
| 61622 | 6     | 140    | 40     | 30  |    |  |
| 67493 | 7     | 150    | 44     | 60  |    |  |
| 61623 | 8     | 160    | 45     | 110 |    |  |
| 67494 | 9     | 170    | 50     | 140 |    |  |
| 61624 | 10    | 180    | 55     | 250 |    |  |
| 67495 | 12    | 200    | 60     | 400 | 1  |  |
| 67496 | 14    | 230    | 67     | 650 |    |  |
| 67497 | 17    | 260    | 85     | 850 |    |  |
| 67498 | 19    | 280    |        |     |    |  |





ISO 2936 | DIN 911

## CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

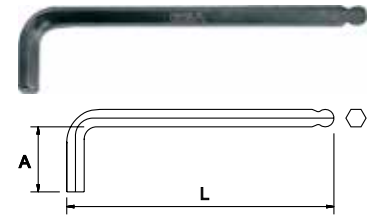
Cr-V



## INCH

| COD.  |  | L (mm) | A (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 68914 | 1/16                                                                              | 75     | 14     | 1,6                                                                               |                                                                                   |                                                                                     |
| 68915 | 5/64                                                                              | 80     | 16     | 2,7                                                                               |                                                                                   |                                                                                     |
| 68916 | 3/32                                                                              | 85     | 17     | 4,5                                                                               |                                                                                   |                                                                                     |
| 68917 | 7/64                                                                              | 90     | 18     | 6,6                                                                               |                                                                                   |                                                                                     |
| 68918 | 1/8                                                                               | 95     | 19     | 8,3                                                                               |                                                                                   |                                                                                     |
| 68919 | 9/64                                                                              | 100    | 20     | 11                                                                                |                                                                                   |                                                                                     |
| 68920 | 5/32                                                                              | 105    | 21     | 14                                                                                | 10                                                                                | ●                                                                                   |
| 68921 | 3/16                                                                              | 115    | 24     | 23                                                                                |                                                                                   |                                                                                     |
| 68922 | 7/32                                                                              | 125    | 26     | 32                                                                                |                                                                                   |                                                                                     |
| 68923 | 1/4                                                                               | 135    | 29     | 50                                                                                |                                                                                   |                                                                                     |
| 68924 | 5/16                                                                              | 150    | 32     | 80                                                                                |                                                                                   |                                                                                     |
| 68925 | 3/8                                                                               | 170    | 35     | 135                                                                               |                                                                                   |                                                                                     |
| 68926 | 7/16                                                                              | 190    | 38     | 210                                                                               |                                                                                   |                                                                                     |

ISO 2936 | DIN 911







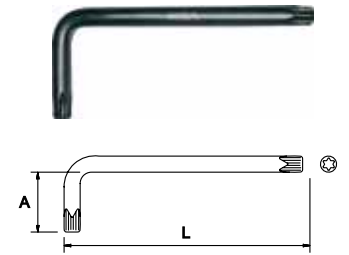
## CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V





## LLAVES TORX\*\* / TORX\*\* KEYS / CLÉS TORX\*\* / TORX\*\* INBUSSCHLÜSSEL / CHIAVI TORX\*\* / CHAVES TORX\*\* / КЛЮЧ TORX\*\*

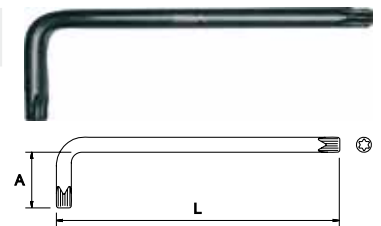
## STANDARD

| COD.  |  | L (mm) | A (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 67801 | T-6                                                                                 |        |        |                                                                                     |                                                                                     |                                                                                       |
| 67802 | T-7                                                                                 |        |        |                                                                                     |                                                                                     |                                                                                       |
| 67803 | T-8                                                                                 | 41     | 14     | 2,5                                                                                 |                                                                                     |                                                                                       |
| 67804 | T-9                                                                                 |        |        |                                                                                     |                                                                                     |                                                                                       |
| 65333 | T-10                                                                                | 49     | 16     | 3,5                                                                                 |                                                                                     |                                                                                       |
| 65334 | T-15                                                                                | 56     | 17     | 5,0                                                                                 |                                                                                     |                                                                                       |
| 65335 | T-20                                                                                | 62     | 19     | 7,5                                                                                 | 10                                                                                  | ●                                                                                     |
| 65336 | T-25                                                                                | 70     | 20     | 9,5                                                                                 |                                                                                     |                                                                                       |
| 65337 | T-27                                                                                | 75     | 24     | 15                                                                                  |                                                                                     |                                                                                       |
| 65338 | T-30                                                                                | 85     | 29     | 20                                                                                  |                                                                                     |                                                                                       |
| 65339 | T-40                                                                                | 95     | 34     | 32                                                                                  |                                                                                     |                                                                                       |
| 65340 | T-45                                                                                | 110    | 39     | 44                                                                                  |                                                                                     |                                                                                       |
| 65341 | T-50                                                                                | 125    | 41     | 65                                                                                  |                                                                                     |                                                                                       |







## SERIE LARGA / LONG PATTERN / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ДЛИННЫЙ

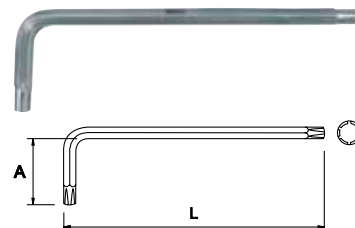
| COD.  |  | L (mm) | A (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 65342 | T-10                                                                                | 90     | 17     | 6,0                                                                                 |                                                                                     |                                                                                       |
| 65343 | T-15                                                                                | 95     | 18     | 9,0                                                                                 |                                                                                     |                                                                                       |
| 65344 | T-20                                                                                | 100    | 19     | 12                                                                                  |                                                                                     |                                                                                       |
| 65345 | T-25                                                                                | 105    | 20     | 16                                                                                  |                                                                                     |                                                                                       |
| 65346 | T-27                                                                                | 110    | 21     | 24                                                                                  | 10                                                                                  | ●                                                                                     |
| 65347 | T-30                                                                                | 120    | 24     | 31                                                                                  |                                                                                     |                                                                                       |
| 65348 | T-40                                                                                | 130    | 26     | 46                                                                                  |                                                                                     |                                                                                       |
| 65349 | T-45                                                                                | 140    | 28     | 65                                                                                  |                                                                                     |                                                                                       |
| 65350 | T-50                                                                                | 160    | 32     | 90                                                                                  |                                                                                     |                                                                                       |







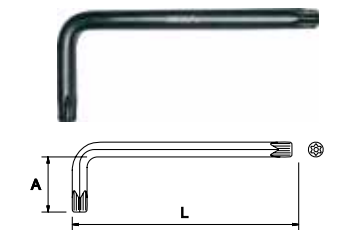
\*Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)





**■ LLAVES RIBE® / RIBE® WRENCHES / CLÉS RIBES® / RIBE® SCHLÜSSEL / CHIAVE RIBE® / CHAVES RIBE® / КЛЮЧИ RIBE®**

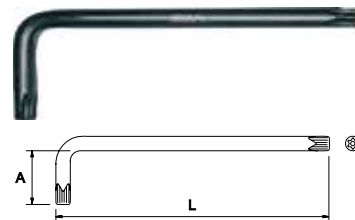
| COD.  |  | L (mm) | A (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 65975 | M4                                                                                | 145    | 22     | 16                                                                                |                                                                                   |                                                                                     |
| 65976 | M5                                                                                | 150    | 24     | 26                                                                                |                                                                                   |                                                                                     |
| 65977 | M6                                                                                | 160    | 30     | 42                                                                                | 10                                                                                | •                                                                                   |
| 65978 | M7                                                                                | 175    | 32     | 80                                                                                |                                                                                   |                                                                                     |
| 65979 | M8                                                                                | 185    | 40     | 90                                                                                |                                                                                   |                                                                                     |
| 65980 | M10                                                                               | 220    | 55     | 150                                                                               |                                                                                   |                                                                                     |


**■ LLAVES TAMPER TORX / TAMPER TORX KEYS / CLÉS TAMPER TORX / TAMPER TORX INBUSSCHLÜSSEL / CHIAVI TAMPER TORX / CHAVES TAMPER TORX / КЛЮЧ TAMPER TORX**

| COD.  |  | L (mm) | A (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 56544 | TT8                                                                               | 41     | 14     | 2,5                                                                               |                                                                                   |                                                                                     |
| 56545 | TT9                                                                               | 49     | 16     | 3,5                                                                               |                                                                                   |                                                                                     |
| 56546 | TT10                                                                              | 56     | 17     | 5                                                                                 |                                                                                   |                                                                                     |
| 56547 | TT15                                                                              | 62     | 19     | 7,5                                                                               |                                                                                   |                                                                                     |
| 56548 | TT20                                                                              | 70     | 20     | 9,5                                                                               | 10                                                                                | •                                                                                   |
| 56549 | TT25                                                                              | 75     | 24     | 15                                                                                |                                                                                   |                                                                                     |
| 56550 | TT27                                                                              | 85     | 29     | 20                                                                                |                                                                                   |                                                                                     |
| 56551 | TT30                                                                              | 95     | 34     | 32                                                                                |                                                                                   |                                                                                     |
| 56552 | TT40                                                                              | 110    | 39     | 44                                                                                |                                                                                   |                                                                                     |
| 56553 | TT45                                                                              | 125    | 41     | 65                                                                                |                                                                                   |                                                                                     |


**■ SERIE LARGA / LONG PATTERN / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ДЛИННЫЙ**

| COD.  |  | L (mm) | A (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 56556 | TT10                                                                                | 90     | 17     | 6                                                                                   |                                                                                     |                                                                                       |
| 56557 | TT15                                                                                | 95     | 18     | 9                                                                                   |                                                                                     |                                                                                       |
| 56558 | TT20                                                                                | 100    | 19     | 12                                                                                  |                                                                                     |                                                                                       |
| 56559 | TT25                                                                                | 105    | 20     | 16                                                                                  |                                                                                     |                                                                                       |
| 56560 | TT27                                                                                | 110    | 21     | 24                                                                                  | 10                                                                                  | •                                                                                     |
| 56561 | TT30                                                                                | 120    | 24     | 31                                                                                  |                                                                                     |                                                                                       |
| 56562 | TT40                                                                                | 130    | 26     | 46                                                                                  |                                                                                     |                                                                                       |
| 56563 | TT45                                                                                | 140    | 28     | 65                                                                                  |                                                                                     |                                                                                       |
| 56564 | TT50                                                                                | 160    | 32     | 90                                                                                  |                                                                                     |                                                                                       |



# EGGA Master

## ART IN INNOVATION

• \*Para tornillos RIBE® (Marca registrada por Richard Bergner Verbindungstechnik GmbH & Co. KG) / \*For screws RIBE® (Richard Bergner Verbindungstechnik GmbH & Co. KG registered trademark) / \*Pour vis RIBE® (Marque enregistrée par Richard Bergner Verbindungstechnik GmbH & Co. KG)

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**JUEGOS / SETS / ASSORTIMENTS / SÄTZE / ASSORTIMENTI / JOGOS / НАБОРЫ**

|                                                                                           |    |     |                                                          |   |
|-------------------------------------------------------------------------------------------|----|-----|----------------------------------------------------------|---|
| <b>61600</b>                                                                              | 10 | 400 | 10                                                       | ● |
| <b>Composición / Composition / Composition</b>                                            |    |     |                                                          |   |
| 61502-61504-61505-61506-61508-61509-61510-65306-65519-65308                               |    |     | 2-3-4-5-6-8-10-11-13-14                                  |   |
| <b>61767</b>                                                                              | 15 | 650 | 10                                                       | ● |
| <b>Composición / Composition / Composition</b>                                            |    |     |                                                          |   |
| 61502-61504-61505-61506-61508-61527-61509-65305-61510-65306-55307-65519-65310-65311-65313 |    |     | 2-3-4-5-6-7-8-9-10-11-12-13-17-19-22                     |   |
| <b>69987</b>                                                                              | 7  | 600 | 6                                                        | ● |
| <b>Composición / Composition / Composition</b>                                            |    |     |                                                          |   |
| 65975, 65976, 65977, 65978, 65979, 65980                                                  |    |     | M4, M5, M6, M7, M8, M9, M10                              |   |
| <b>61499</b>                                                                              | 8  | 105 | 12                                                       | ● |
| <b>Composición / Composition / Composition</b>                                            |    |     |                                                          |   |
| 61501, 61502, 61503, 61504, 61505, 61506, 61507, 61508                                    |    |     | 1,5-2-2,5-3-4-5-5,5-6 mm                                 |   |
| <b>61500</b>                                                                              | 10 | 270 | 12                                                       | ● |
| <b>Composición / Composition / Composition</b>                                            |    |     |                                                          |   |
| 61501, 61502, 61503, 61504, 61505, 61506, 61507, 61508, 61509, 61510                      |    |     | 1,5-2-2,5-3-4-5-5,5-6-8-10 mm                            |   |
| <b>61516</b>                                                                              | 10 | 270 | 12                                                       | ● |
| <b>Composición / Composition / Composition</b>                                            |    |     |                                                          |   |
| 65315, 65316, 65317, 65318, 65319, 65320, 65321, 65322, 65323, 65324                      |    |     | 1/16"-5/64"-3/32"-1/8"-5/32"-3/16"-7/32"-1/4"-5/16"-3/8" |   |
| <b>61512</b>                                                                              | 7  | 330 | 12                                                       | ● |
| <b>Composición / Composition / Composition</b>                                            |    |     |                                                          |   |
| 61519, 61520, 61521, 61522, 61524, 61525, 61526                                           |    |     | Serie larga / Long serie 2,5-3-4-5-6-8-10 mm             |   |
| <b>61496</b>                                                                              | 10 | 360 | 12                                                       | ● |
| <b>Composición / Composition / Composition</b>                                            |    |     |                                                          |   |
| 61615, 61616, 61617, 61618, 61619, 61620, 61621, 61622, 61623, 61624                      |    |     | Serie larga / Long serie 1,5-2-2,5-3-4-5-5,5-6-8-10 mm   |   |





| COD.         | PCS. |     |    |   |
|--------------|------|-----|----|---|
| <b>61495</b> | 10   | 360 | 12 | ● |

| Composición / Composition / Composition                              | Descripción / Description / Description |                                                          |
|----------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------|
| 68914, 68915, 68916, 68918, 68920, 68921, 68922, 68923, 68924, 68925 | Serie larga / Long serie                | 1/16"-5/64"-3/32"-1/8"-5/32"-3/16"-7/32"-1/4"-5/16"-3/8" |



| COD.         | PCS. |     |    |   |
|--------------|------|-----|----|---|
| <b>65351</b> | 9    | 250 | 12 | ● |

| Composición / Composition / Composition                       | Descripción / Description / Description |
|---------------------------------------------------------------|-----------------------------------------|
| 65333, 65334, 65335, 65336, 65337, 65338, 65339, 65340, 65341 | T10-T15-T20-T25-T27-T30-T40-T45-T50     |



| COD.         | PCS. |     |   |   |
|--------------|------|-----|---|---|
| <b>65665</b> | 9    | 300 | 6 | ● |

| Composición / Composition / Composition                       | Descripción / Description / Description                      |
|---------------------------------------------------------------|--------------------------------------------------------------|
| 65342, 65343, 65344, 65345, 65346, 65347, 65348, 65349, 65350 | Serie larga / Long serie T10-T15-T20-T25-T27-T30-T40-T45-T50 |



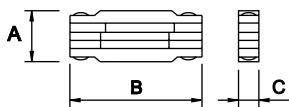
| COD.         | PCS. |     |    |   |
|--------------|------|-----|----|---|
| <b>65650</b> | 9    | 250 | 12 | ● |

| Composición / Composition / Composition                       | Descripción / Description / Description      |
|---------------------------------------------------------------|----------------------------------------------|
| 56546, 56547, 56548, 56549, 56550, 56551, 56552, 56553, 56554 | TT10-TT15-TT20-TT25-TT27-TT30-TT40-TT45-TT50 |

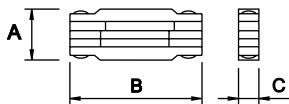


| COD.         | PCS. |     |   |   |
|--------------|------|-----|---|---|
| <b>56566</b> | 9    | 300 | 6 | ● |

| Composición / Composition / Composition                       | Descripción / Description / Description                               |
|---------------------------------------------------------------|-----------------------------------------------------------------------|
| 56556, 56557, 56558, 56559, 56560, 56561, 56562, 56563, 56564 | Serie larga / Long serie TT10-TT15-TT20-TT25-TT27-TT30-TT40-TT45-TT50 |

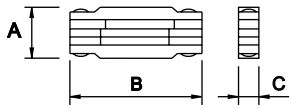


| COD.         | PCS. | A (mm) | B (mm) | C (mm) | Composición / Composition / Composition |     |    |   |   |
|--------------|------|--------|--------|--------|-----------------------------------------|-----|----|---|---|
| <b>61511</b> | 8    | 39     | 120    | 32     | 2-2,5-3-4-5-6-8-10 mm                   | 290 | 12 | ● | ● |

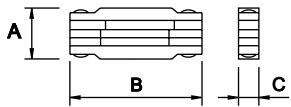


| COD.         | PCS. | A (mm) | B (mm) | C (mm) | Composición / Composition / Composition |     |    |   |   |
|--------------|------|--------|--------|--------|-----------------------------------------|-----|----|---|---|
| <b>61514</b> | 6    | 21     | 95     | 32     | 2,5-3-4-5-6-8 mm                        | 160 | 12 | ● | ● |





| COD.         | PCS. | A (mm) | B (mm) | C (mm) | Composición / Composition / Composition |    |    |   |  |
|--------------|------|--------|--------|--------|-----------------------------------------|----|----|---|--|
| <b>61513</b> | 6    | 33     | 90     | 17     | T10-T15-T20-T25-T27-T30                 | 90 | 12 | • |  |



| COD.         | PCS. | A (mm) | B (mm) | C (mm) | Composición / Composition / Composition |    |    |   |  |
|--------------|------|--------|--------|--------|-----------------------------------------|----|----|---|--|
| <b>56567</b> | 6    | 33     | 90     | 17     | TT10-TT15-TT20-TT25-TT27-TT30           | 90 | 12 | • |  |



| COD.         | PCS. | Composición / Composition / Composition             | COD. PCS.                                              |     |    |   |  |
|--------------|------|-----------------------------------------------------|--------------------------------------------------------|-----|----|---|--|
| <b>65352</b> | 8    | 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 mm                | 61501, 61502, 61503, 61504, 61505, 61506, 61508, 61509 | 140 | 12 | • |  |
| <b>65353</b> |      | 5/64 - 3/32 - 1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 5/16 | 65316, 65317, 65318, 65319, 65320, 65321, 65322, 65323 | 150 |    |   |  |
| <b>65354</b> |      | T9-T10-T15-T20-T25-T27-T30-T40                      | 67804, 65333, 65334, 65335, 65336, 65337, 65338, 65339 | 140 |    |   |  |
| <b>56568</b> |      | TT9-TT10-TT15-TT20-TT25-TT27-TT30-TT40              | 56545, 56546, 56547, 56548, 56549, 56550, 56551, 56552 | 140 |    |   |  |



9

LLAVES DE VASO  
SOCKET WRENCHES  
DOUILLES  
STECKSCHLÜSSEL  
BUSSOLE  
CHAVES DE CAIXA  
ГОЛОВКИ



El tener la llave de vaso o accesorio correcto cuando es requerido marca la diferencia. Por esta razón, EGA Master fabrica y mantiene en stock la gama más amplia de llaves de vaso y accesorios de calidad industrial:

*Having the right socket wrench or accessory when required makes the difference. For this reason, EGA MASTER makes and keeps in stock the widest range of industrial quality socket wrenches and accessories:*

Avoir la bonne douille ou le bon accessoire quand il est fait fait la différence. Pour cette raison, EGA Master fabrique et maintient en stock la plus large gamme de douilles et d'accessoires de qualité industrielle :

**USO MANUAL**  
**MANUAL USE**  
**MANUEL D'UTILISATION**

|      |                           | Hexagonal<br>Hexagonale | Hex<br>Hexagonale | Bihex | Spline | E-torx | Articuladas<br>Universal<br>Articulées | Puntas<br>atornilladoras<br>con vaso<br>Socket bits<br>Embouts<br>de vissage<br>avec douille | Adaptador<br>de par<br>Torque adaptor<br>Adaptateur<br>de couple | Crow<br>foot |
|------|---------------------------|-------------------------|-------------------|-------|--------|--------|----------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------|
| 1/4" | Standard<br>Shallow/Short | mm                      | ●                 | ●     | ●      | ●      | ●                                      | ●                                                                                            |                                                                  | ●            |
|      | Standard                  | inch                    | ●                 | ●     | ●      |        | ●                                      | ●                                                                                            |                                                                  | ●            |
|      | Serie larga<br>Deep/Long  | mm                      | ●                 | ●     |        |        |                                        | ●                                                                                            |                                                                  |              |
|      | Série longue              | inch                    | ●                 | ●     |        |        |                                        | ●                                                                                            |                                                                  |              |
| 3/8" | Standard<br>Shallow/Short | mm                      | ●                 | ●     |        | ●      | ●                                      | ●                                                                                            | ●                                                                | ●            |
|      | Standard                  | inch                    | ●                 | ●     |        |        | ●                                      | ●                                                                                            | ●                                                                | ●            |
|      | Serie larga<br>Deep/Long  | mm                      | ●                 | ●     |        |        |                                        | ●                                                                                            |                                                                  |              |
|      | Série longue              | inch                    | ●                 | ●     |        |        |                                        | ●                                                                                            |                                                                  |              |
| 1/2" | Standard<br>Shallow/Short | mm                      | ●                 | ●     | ●      | ●      | ●                                      | ●                                                                                            |                                                                  | ●            |
|      | Standard                  | inch                    | ●                 | ●     | ●      |        | ●                                      | ●                                                                                            |                                                                  | ●            |
|      | Serie larga<br>Deep/Long  | mm                      | ●                 | ●     |        |        |                                        | ●                                                                                            |                                                                  |              |
|      | Série longue              | inch                    | ●                 | ●     |        |        |                                        | ●                                                                                            |                                                                  |              |
| 3/4" | Standard<br>Shallow/Short | mm                      | ●                 | ●     |        |        |                                        |                                                                                              |                                                                  |              |
|      | Standard                  | inch                    | ●                 | ●     |        |        |                                        |                                                                                              |                                                                  |              |
|      | Serie larga<br>Deep/Long  | mm                      | ●                 |       |        |        |                                        |                                                                                              |                                                                  |              |
|      | Série longue              | inch                    | ●                 |       |        |        |                                        |                                                                                              |                                                                  |              |
| 1"   | Standard<br>Shallow/Short | mm                      | ●                 | ●     |        |        |                                        |                                                                                              |                                                                  |              |
|      | Standard                  | inch                    | ●                 | ●     |        |        |                                        |                                                                                              |                                                                  |              |
|      | Serie larga<br>Deep/Long  | mm                      |                   |       |        |        |                                        |                                                                                              |                                                                  |              |
|      | Série longue              | inch                    |                   |       |        |        |                                        |                                                                                              |                                                                  |              |

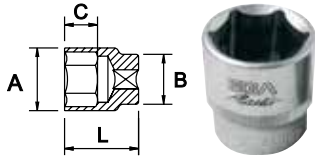


**IMPACTO**  
**IMPACT**  
**À CHOC**

|        |                                          |      | Hexagonal<br>Hex<br>Hexagonale | 4 point | 8 point | Puntas atornilladoras con vaso<br>Socket bits<br>Embouts de vissage avec douille |
|--------|------------------------------------------|------|--------------------------------|---------|---------|----------------------------------------------------------------------------------|
| 3/8"   | Standard                                 | mm   | ●                              |         |         | ●                                                                                |
|        | Shallow/Short                            |      |                                |         |         |                                                                                  |
|        | Standard                                 | inch | ●                              |         |         | ●                                                                                |
|        | Serie larga<br>Deep/Long<br>Série longue | mm   |                                |         |         |                                                                                  |
|        |                                          | inch |                                |         |         |                                                                                  |
| 1/2"   | Standard                                 | mm   | ●                              |         |         | ●                                                                                |
|        | Shallow/Short                            |      |                                |         |         |                                                                                  |
|        | Standard                                 | inch | ●                              |         | ●       | ●                                                                                |
|        | Serie larga<br>Deep/Long<br>Série longue | mm   | ●                              |         |         |                                                                                  |
|        |                                          | inch | ●                              |         |         |                                                                                  |
| 3/4"   | Standard                                 | mm   | ●                              | ●       |         | ●                                                                                |
|        | Shallow/Short                            |      |                                |         |         |                                                                                  |
|        | Standard                                 | inch | ●                              | ●       | ●       | ●                                                                                |
|        | Serie larga<br>Deep/Long<br>Série longue | mm   | ●                              |         |         |                                                                                  |
|        |                                          | inch | ●                              |         |         |                                                                                  |
| 1"     | Standard                                 | mm   | ●                              | ●       |         | ●                                                                                |
|        | Shallow/Short                            |      |                                |         |         |                                                                                  |
|        | Standard                                 | inch | ●                              | ●       | ●       | ●                                                                                |
|        | Serie larga<br>Deep/Long<br>Série longue | mm   | ●                              |         |         |                                                                                  |
|        |                                          | inch | ●                              |         |         |                                                                                  |
| 1.1/2" | Standard                                 | mm   | ●                              |         |         |                                                                                  |
|        | Shallow/Short                            |      |                                |         |         |                                                                                  |
|        | Standard                                 | inch | ●                              |         |         |                                                                                  |
|        | Serie larga<br>Deep/Long<br>Série longue | mm   | ●                              |         |         |                                                                                  |
|        |                                          | inch | ●                              |         |         |                                                                                  |
| 2.1/2" | Standard                                 | mm   | ●                              |         |         |                                                                                  |
|        | Shallow/Short                            |      |                                |         |         |                                                                                  |
|        | Standard                                 | inch | ●                              |         |         |                                                                                  |
|        | Serie larga<br>Deep/Long<br>Série longue | mm   |                                |         |         |                                                                                  |
|        |                                          | inch |                                |         |         |                                                                                  |
| 3.1/2" | Standard                                 | mm   | ●                              |         |         |                                                                                  |
|        | Shallow/Short                            |      |                                |         |         |                                                                                  |
|        | Standard                                 | inch | ●                              |         |         |                                                                                  |
|        | Serie larga<br>Deep/Long<br>Série longue | mm   |                                |         |         |                                                                                  |
|        |                                          | inch |                                |         |         |                                                                                  |



- 1/4"
- STANDARD
- MM
- 6 PT. - 1/4"



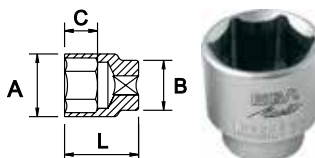
| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g  | Icon 1 | Icon 2 |
|-------|-------|--------|--------|--------|--------|----|----|--------|--------|
| 61322 | 3,2   |        | 6      |        | 7      |    |    |        |        |
| 61311 | 4     |        |        |        | 8      |    |    |        |        |
| 63974 | 4,5   |        | 7      |        |        | 9  | 30 |        |        |
| 61312 | 5     |        | 8      |        |        |    |    |        |        |
| 63975 | 5,5   |        | 9      | 12     |        |    |    |        |        |
| 61313 | 6     |        |        |        | 9      | 10 |    |        |        |
| 61314 | 7     | x      | 11     |        |        | 12 | 25 | •      |        |
| 61315 | 8     |        | 12     |        |        |    |    |        |        |
| 61316 | 9     |        | 13     |        |        | 13 |    |        |        |
| 61317 | 10    |        | 15     | 13     |        | 15 |    |        |        |
| 61318 | 11    |        | 16     | 14     |        | 17 | 20 |        |        |
| 61319 | 12    |        | 17     |        | 13     | 20 |    |        |        |
| 61320 | 13    |        | 18     | 15     |        | 23 |    |        |        |
| 61321 | 14    |        | 17     |        |        |    |    |        |        |

○ I DIN 3124

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

- 6 PT. - 1/4"



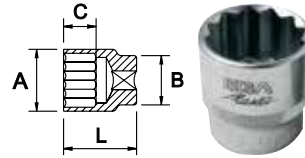
| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g  | Icon 1 | Icon 2 |
|-------|---------|--------|--------|--------|--------|----|----|--------|--------|
| 59989 | 1/8     |        | 6      |        | 7      |    |    |        |        |
| 60420 | 5/32    |        | 7      |        | 9      | 9  | 30 |        |        |
| 60421 | 3/16    |        |        |        |        |    |    |        |        |
| 60422 | 7/32    |        | 9      | 12     |        | 10 |    |        |        |
| 60423 | 1/4     |        | 9,5    |        | 11     | 12 |    |        |        |
| 60424 | 9/32    | y      | 11     |        |        | 13 | 25 | •      |        |
| 60425 | 5/16    |        | 12     |        |        |    |    |        |        |
| 60426 | 11/32   |        |        |        |        | 15 |    |        |        |
| 60427 | 3/8     |        | 14     | 14     | 12     | 16 |    |        |        |
| 60428 | 7/16    |        | 16     | 16     |        | 21 | 20 |        |        |
| 60429 | 1/2     |        | 18     | 18     |        | 27 |    |        |        |
| 60430 | 9/16    |        | 20     | 20     | 13     | 34 |    |        |        |

○ I DIN 3124

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

- 12 PT. - 1/4"



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g  | Icon 1 | Icon 2 |
|-------|-------|--------|--------|--------|--------|----|----|--------|--------|
| 59992 | 4     |        | 7      |        | 2      |    |    |        |        |
| 63977 | 5     |        | 8      |        |        | 9  | 30 |        |        |
| 63978 | 5,5   |        |        |        |        |    |    |        |        |
| 63979 | 6     |        | 9      | 12     |        | 10 |    |        |        |
| 63980 | 7     |        | 11     |        | 9      |    |    |        |        |
| 63981 | 8     | x      | 12     |        |        | 12 | 25 | •      |        |
| 63982 | 9     |        | 13     |        |        | 13 |    |        |        |
| 63983 | 10    |        | 15     | 13     |        | 15 |    |        |        |
| 63984 | 11    |        | 16     | 14     |        | 17 | 20 |        |        |
| 63985 | 12    |        | 17     |        | 13     | 20 |    |        |        |
| 63986 | 13    |        | 18     | 15     |        | 23 |    |        |        |
| 63987 | 14    |        | 17     |        |        |    |    |        |        |

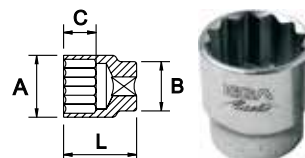
○ I DIN 3124

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

- INCH

- 12 PT. - 1/4"



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g  | Icon 1 | Icon 2 |
|-------|---------|--------|--------|--------|--------|----|----|--------|--------|
| 63989 | 3/16    |        | 7      |        | 9      | 9  | 30 |        |        |
| 63990 | 7/32    |        | 9      |        |        | 10 |    |        |        |
| 63991 | 1/4     |        | 9,5    | 12     | 11     | 12 | 25 |        |        |
| 63992 | 9/32    |        | 11     |        |        | 13 |    |        |        |
| 63993 | 5/16    | y      | 12     |        |        | 15 | 25 | •      |        |
| 63994 | 11/32   |        |        |        |        | 16 |    |        |        |
| 63995 | 3/8     |        | 14     | 14     | 12     | 21 | 20 |        |        |
| 63996 | 7/16    |        | 16     | 16     |        | 27 |    |        |        |
| 63997 | 1/2     |        | 18     | 18     |        | 34 |    |        |        |
| 63998 | 9/16    |        | 20     | 20     | 13     |    |    |        |        |

○ I DIN 3124

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

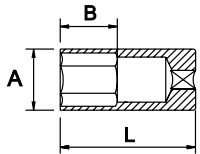
x 50% cromado aeroespacial - 50% cromado pulido espejo / 50% aerospace chrome plating - 50% mirror polished chrome plating / 50% chromée aérospatiale - 50% polie chromée  
y 100% cromado pulido espejo / 100% mirror polished chrome plating / 100% polie chromée

■ 1/4"

■ SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

■ MM

■ 6 PT. - 1/4"



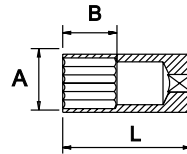
| COD.  | AF mm | L (mm) | A (mm) | B (mm) | Pt | g  | Icon 1 | Icon 2 | Icon 3 |
|-------|-------|--------|--------|--------|----|----|--------|--------|--------|
| 67640 | 4     |        | 7      | 10     | 20 |    |        |        |        |
| 67641 | 4,5   |        | 8      |        | 21 |    |        |        |        |
| 67642 | 5     |        | 9      | 11     | 23 |    |        |        |        |
| 67643 | 5,5   |        | 10     |        | 24 |    |        |        |        |
| 67644 | 6     |        | 11     | 14     | 26 |    |        |        |        |
| 67645 | 7     |        | 12     | 19     | 27 |    |        |        |        |
| 67646 | x 8   | 50     | 13     | 20     | 37 | 10 | ●      |        |        |
| 67647 | 9     |        | 15     | 22     | 39 |    |        |        |        |
| 67648 | 10    |        | 16     | 22     | 46 |    |        |        |        |
| 67649 | 11    |        | 17     | 23     | 50 |    |        |        |        |
| 67650 | 12    |        | 18     | 23     | 55 |    |        |        |        |
| 67651 | 13    |        | 20     |        | 75 |    |        |        |        |
| 67652 | 14    |        |        |        |    |    |        |        |        |



CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

■ 12 PT. - 1/4"



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | Pt | g  | Icon 1 | Icon 2 | Icon 3 |
|-------|-------|--------|--------|--------|----|----|--------|--------|--------|
| 59993 | 4     |        | 7      |        |    |    |        |        |        |
| 67660 | 5     |        | 8      | 11     | 24 |    |        |        |        |
| 67661 | 5,5   |        | 9      |        |    |    |        |        |        |
| 67662 | 6     |        | 9,5    | 14     | 26 |    |        |        |        |
| 67663 | 7     |        | 11     | 19     | 27 |    |        |        |        |
| 67664 | x 8   | 50     | 12     | 20     | 37 | 10 | ●      |        |        |
| 67665 | x 9   | 50     | 13     | 20     | 39 | 12 | ●      |        |        |
| 67666 | 10    |        | 15     | 22     | 46 |    |        |        |        |
| 67667 | 11    |        | 16     | 22     | 50 |    |        |        |        |
| 67668 | 12    |        | 17     | 23     | 55 |    |        |        |        |
| 67669 | 13    |        | 18     | 23     | 55 |    |        |        |        |
| 67670 | 14    |        | 20     |        | 75 |    |        |        |        |

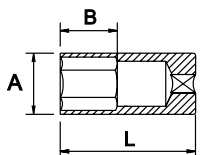


CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

■ INCH

■ 6 PT. - 1/4"



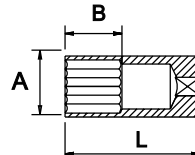
| COD.  | AF inch | L (mm) | A (mm) | B (mm) | Pt | g  | Icon 1 | Icon 2 | Icon 3 |
|-------|---------|--------|--------|--------|----|----|--------|--------|--------|
| 67674 | 5/32    |        | 7      | 8      | 22 |    |        |        |        |
| 67675 | 3/16    |        | 8      | 11     | 24 |    |        |        |        |
| 67676 | 7/32    |        | 9      | 14     |    |    |        |        |        |
| 67677 | 1/4     |        | 9,5    |        |    |    |        |        |        |
| 67678 | 9/32    |        | 11     | 18     | 28 |    |        |        |        |
| 67679 | y 5/16  | 50     | 12     | 20     | 30 | 10 | ●      |        |        |
| 67680 | 11/32   |        | 13     |        | 44 |    |        |        |        |
| 67681 | 3/8     |        | 16     | 22     | 45 |    |        |        |        |
| 67682 | 7/16    |        |        |        | 55 |    |        |        |        |
| 67683 | 1/2     |        | 20     | 26     | 70 |    |        |        |        |
| 67684 | 9/16    |        |        |        |    |    |        |        |        |



CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

■ 12 PT. - 1/4"



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | Pt | g  | Icon 1 | Icon 2 | Icon 3 |
|-------|---------|--------|--------|--------|----|----|--------|--------|--------|
| 67689 | 5/32    |        | 7      | 8      | 22 |    |        |        |        |
| 67690 | 3/16    |        | 8      | 11     | 24 |    |        |        |        |
| 67691 | 7/32    |        | 9      | 14     |    |    |        |        |        |
| 67692 | 1/4     |        | 9,5    |        |    |    |        |        |        |
| 67693 | 9/32    |        | 11     | 18     | 28 |    |        |        |        |
| 67694 | y 5/16  | 50     | 12     | 20     | 30 | 10 | ●      |        |        |
| 67695 | 11/32   |        | 13     |        | 44 |    |        |        |        |
| 67696 | 3/8     |        | 16     | 22     | 45 |    |        |        |        |
| 67697 | 7/16    |        |        |        | 55 |    |        |        |        |
| 67698 | 1/2     |        | 20     | 26     | 70 |    |        |        |        |
| 67699 | 9/16    |        |        |        |    |    |        |        |        |

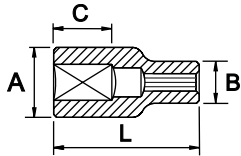


CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

x 50% cromado aeroespacial - 50% cromado pulido espejo / 50% aerospace chrome plating - 50% mirror polished chrome plating / 50% chromée aérospatiale - 50% polie chromée  
y 100% cromado pulido espejo / 100% mirror polished chrome plating / 100% polie chromée

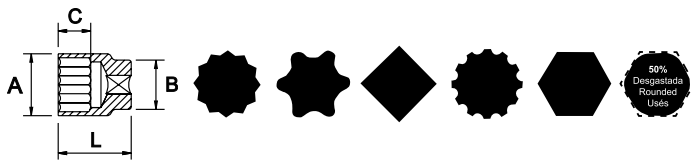
■ 1/4"  
 ■ TORX®\*



| COD.  |     | L (mm) | A (mm) | B (mm) | C (mm) |    |    |   |
|-------|-----|--------|--------|--------|--------|----|----|---|
| 57165 | E4  | 25     | 7      | 12     | 6      | 11 | 25 | ● |
| 57166 | E5  |        | 8      |        | 8      | 12 |    |   |
| 57167 | E6  |        | 9      |        | 9      | 13 |    |   |
| 57168 | E7  |        | 10     |        | 10     | 14 |    |   |
| 57169 | E8  |        | 11     |        | 11     | 16 |    |   |
| 57170 | E10 |        | 13     |        | 13     |    |    |   |



■ SPLINE



| COD.  |        |     |     |     | L (mm) | A (mm) | B (mm) | C (mm) |    |    |   |
|-------|--------|-----|-----|-----|--------|--------|--------|--------|----|----|---|
| 56015 | 5/32   | 4   | M5  | E5  | 25     | 7      | 13     | 10     | 14 | 20 | ● |
| 56017 | -      | 5   | M6  | E6  |        | 8      |        |        |    |    |   |
| 56018 | 7/32   | 5,5 | M7  | -   |        | 8,5    |        |        |    |    |   |
| 56019 | -      | 6   | -   | -   |        | 9      |        |        |    |    |   |
| 55813 | 1/4    | -   | -   | -   |        | 10,5   |        |        |    |    |   |
| 56020 | 9/32   | 7   | M9  | -   |        | 13     |        |        |    |    |   |
| 56021 | y 5/16 | 8   | M10 | E10 | 13     | 13     | 10     | 14     | 20 | ●  |   |
| 56023 | -      | 10  | -   | -   | 16     | 16     | 23     | 25     |    |    |   |
| 55814 | 3/8    | -   | -   | -   | 18     | 18     | 27     | 20     |    |    |   |
| 56024 | 7/16   | 11  | M14 | E14 | 19     | 19     | 30     | 20     |    |    |   |
| 56025 | -      | 12  | M15 | E16 | 20     | 20     | 33     |        |    |    |   |
| 56026 | 1/2    | 13  | M16 | -   |        |        |        |        |    |    |   |
| 56027 | 9/16   | 14  | M18 | E18 |        |        |        |        |    |    |   |



DIN 3120

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

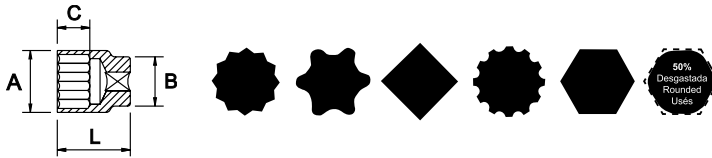
\*Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)

y 100% cromado pulido espejo / 100% mirror polished chrome plating / 100% polie chromée



## ■ 1/4"

**EXTRACTOR DE TUERCAS DESGASTADAS HASTA EL 50% / SCREW EXTRACTOR FOR 50% ROUNDED OFF NUTS / EXTRACTEUR D'ÉCROUS USÉS JUSQU'À 50% / AUSZIEHER 50% ABGENUTZTE MUTTER / ESTRATTORE PER DADI SPANATI FINO AL 50% / EXTRACTOR DE PORCAS DESGASTADAS ATÉ 50% / СЪЕМНИК ДЛЯ СВЕРНУТЫХ НА 50% ГАЕЕК**



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | g  | Icon 1 | Icon 2 |
|-------|-------|--------|--------|--------|--------|----|--------|--------|
| 56015 | 4     |        |        | 7      |        |    |        |        |
| 56017 | 5     |        |        | 8      |        |    |        |        |
| 56018 | 5,5   |        | 12     | 8,5    |        | 10 |        | 30     |
| 56019 | 6     |        |        | 9      |        |    |        |        |
| 56020 | 7     |        |        | 10,5   |        |    |        |        |
| 56021 | 8     | 25     | 13     | 13     | 10     | 14 |        | 25     |
| 56023 | 10    |        | 16     | 16     |        | 23 |        |        |
| 56024 | 11    |        |        |        |        |    |        |        |
| 56025 | 12    |        | 18     | 18     |        | 27 |        | 20     |
| 56026 | 13    |        | 19     | 19     |        | 30 |        |        |
| 56027 | 14    |        | 20     | 20     |        | 33 |        |        |

DIN 3120

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**LLAVES DE VASO ARTICULADAS / UNIVERSAL SOCKET / DOUILLES ARTICULÉES / STECKSCHLÜSSELGELENK / CHIAVE A BUSSOLA ARTICOLATA / CHAVES DE CAIXA ARTICULADAS / УНИВЕРСАЛЬНАЯ ГОЛОВКА С ШАРНИРОМ**

## ■ MM

| COD.  | AF mm | L (mm) | g  | Icon 1 | Icon 2 |
|-------|-------|--------|----|--------|--------|
| 57279 | 6     |        |    |        |        |
| 57280 | 7     |        |    |        |        |
| 57281 | 8     | 34     | 23 |        |        |
| 57282 | 9     |        |    |        |        |
| 57283 | 10    |        |    | 10     |        |
| 57284 | 11    |        |    |        |        |
| 57285 | 12    | 37     | 56 |        |        |
| 57286 | 13    |        |    |        |        |
| 57287 | 14    |        |    |        |        |



## ■ INCH

| COD.  | AF inch | L (mm) | g  | Icon 1 | Icon 2 |
|-------|---------|--------|----|--------|--------|
| 57288 | 1/4     |        |    |        |        |
| 57289 | 5/16    | 34     | 23 |        |        |
| 57290 | 3/8     |        |    | 10     |        |
| 57291 | 7/16    | 37     | 56 |        |        |
| 57292 | 1/2     |        |    |        |        |







x 50% cromado aeroespacial - 50% cromado pulido espejo / 50% aerospaceal chrome plating - 50% mirror polished chrome plating / 50% chromée aérospatiale - 50% polie chromée  
 y 100% cromado pulido espejo / 100% mirror polished chrome plating / 100% polie chromée

Si no encuentra el artículo que necesita, consúltenos en [consulta@egamaster.com](mailto:consulta@egamaster.com) o en [www.egamaster.com](http://www.egamaster.com)  
 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
 Si vous ne trouvez pas l'article que vous desirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)

■ 1/4"





■ PUNTAS ATORNILLADORAS CON VASO / SOCKET BITS / EMBOUTS DE VISSAGE AVEC DOUILLE / STECKSCHLÜSSELEINSATZ / INSERTI A BUSSOLA / PONTAS APARAFUSADORAS COM CAIXA / ГОЛОВКИ-БИТЫ

■ PLANA / FLAT / À FENTE / FLACH / PIATTA / PLANA / ПЛОСКАЯ

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66733 | 0,8 x 4                                                                           | 37     | 15                                                                                | 10                                                                                | ●                                                                                   |
| 66734 | 1 x 5,5                                                                           |        |                                                                                   |                                                                                   |                                                                                     |
| 66735 | 1,2 x 6,5                                                                         |        |                                                                                   |                                                                                   |                                                                                     |
| 66736 | 1,2 x 8                                                                           |        |                                                                                   |                                                                                   |                                                                                     |





■ PLANA SERIE LARGA / SLOTTED LONG / À FENTE SÉRIE LONGUE / LANG GESCHLITZT / PIATTA SERIE LUNGA / FENDA SÉRIE LONGA / ПЛОСКАЯ ВЫСОКАЯ СЕРИЯ

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53015 | 0,8 x 4                                                                           | 50     | 18                                                                                | 10                                                                                | ●                                                                                   |
| 53016 | 1 x 5,5                                                                           |        |                                                                                   |                                                                                   |                                                                                     |
| 53017 | 1,2 x 6,5                                                                         |        |                                                                                   |                                                                                   |                                                                                     |







■ PHILLIPS®\*

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66737 | PH-1                                                                              | 37     | 15                                                                                | 10                                                                                | ●                                                                                   |
| 66738 | PH-2                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 66739 | PH-3                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 58900 | PH-4                                                                              |        |                                                                                   |                                                                                   |                                                                                     |






■ PHILLIPS®\* SERIE LARGA / PHILLIPS®\* LONG / PHILLIPS®\* SÉRIE LONGUE / PHILLIPS®\* LANGE SERIE / PHILLIPS®\* SERIE LUNGA / PHILLIPS®\* SÉRIE LONGA / PHILLIPS®\* ВЫСОКАЯ СЕРИЯ

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53019 | PH-1                                                                                | 50     | 18                                                                                  | 10                                                                                  | ●                                                                                     |
| 53020 | PH-2                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53021 | PH-3                                                                                |        |                                                                                     |                                                                                     |                                                                                       |







■ POZIDRIV®\*

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66740 | PZ-1                                                                                | 37     | 15                                                                                  | 10                                                                                  | ●                                                                                     |
| 66741 | PZ-2                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 66742 | PZ-3                                                                                |        |                                                                                     |                                                                                     |                                                                                       |







■ POZIDRIV®\* SERIE LARGA / POZIDRIV®\* LONG / POZIDRIV®\* SÉRIE LONGUE / POZIDRIV®\* LANGE SERIE / POZIDRIV®\* SERIE LUNGA / POZIDRIV®\* SÉRIE LONGA / POZIDRIV®\* ВЫСОКАЯ СЕРИЯ

| COD.  | L (mm) |  |  |  |  |
|-------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53023 | 50     | PZ-1                                                                                | 18                                                                                  | 10                                                                                  | ●                                                                                     |
| 53024 |        | PZ-2                                                                                |                                                                                     |                                                                                     |                                                                                       |
| 53025 |        | PZ-3                                                                                | 19                                                                                  |                                                                                     |                                                                                       |



■ HEXAGONAL / HEXAGONAL / HEXAGONALE / HEXAGONAL / ESAGONALE / HEXAGONAL / ШЕСТИГРАННАЯ

■ MM



| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 55697 | 1,5                                                                                 | 37     | 15                                                                                  | 10                                                                                  | ●                                                                                     |
| 55698 | 2                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |
| 53013 | 2,5                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |
| 66743 | 3                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |
| 55699 | 3,5                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |







\* Para tornillos PHILLIPS® (Marca registrada por Phillips Screw Company) / \*For screws PHILLIPS® (Phillips Screw Company registered trademark) / \*Pour vis PHILLIPS® (Marque enregistrée par Phillips Screw Company)

\* Para tornillos POZIDRIV® (Marca registrada por European Ind. Serv. Ltd.) / \*For screws POZIDRIV® (European Ind. Serv. Ltd. registered trademark) / \*Pour vis POZIDRIV® (Marque enregistrée par European Ind. Serv. Ltd.)

## ■ 1/4"

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66744 | 4                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |
| 66745 | 5                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |
| 55700 | 5,5                                                                               | 37     | 15                                                                                | 10                                                                                | ●                                                                                   |
| 66746 | 6                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |
| 67164 | 7                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |
| 66747 | 8                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |





## ■ INCH

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 55670 | 1/16                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 55671 | 5/64                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 55672 | 3/32                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 55673 | 7/64                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 55674 | 1/8                                                                               | 37     | 15                                                                                | 10                                                                                | ●                                                                                   |
| 55675 | 9/64                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 55676 | 5/32                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 55677 | 3/16                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 55678 | 7/32                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 55679 | 1/4                                                                               |        |                                                                                   |                                                                                   |                                                                                     |







## ■ HEXAGONAL SERIE LARGA / HEXAGONAL LONG / HEXAGONALE SÉRIE LONGUE / HEXAGONAL LANG / ESAGONALE SERIE LUNGA / HEXAGONAL SÉRIE LONGA / ШЕСТИГРАННАЯ ВЫСОКАЯ СЕРИЯ

## ■ MM

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53041 | 1,5                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |
| 53042 | 2                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |
| 53043 | 2,5                                                                                 |        | 19                                                                                  |                                                                                     |                                                                                       |
| 53044 | 3                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |
| 53045 | 4                                                                                   | 50     |                                                                                     | 10                                                                                  | ●                                                                                     |
| 53046 | 5                                                                                   |        | 20                                                                                  |                                                                                     |                                                                                       |
| 53047 | 5,5                                                                                 |        | 22                                                                                  |                                                                                     |                                                                                       |
| 53048 | 6                                                                                   |        | 23                                                                                  |                                                                                     |                                                                                       |
| 53049 | 7                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |
| 53050 | 8                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |







## ■ INCH.

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53051 | 1/16                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53052 | 5/64                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53053 | 3/32                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53054 | 7/64                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53055 | 1/8                                                                                 | 50     | 19                                                                                  | 10                                                                                  | ●                                                                                     |
| 53056 | 9/64                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53057 | 5/32                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53058 | 3/16                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53059 | 7/32                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53060 | 1/4                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |







## ■ 1/4"

## ■ TORX®\*

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66729 | T-6                                                                               |        |                                                                                   | 15                                                                                |                                                                                     |
| 66730 | T-7                                                                               |        |                                                                                   |                                                                                   |                                                                                     |
| 66748 | T-8                                                                               |        |                                                                                   |                                                                                   |                                                                                     |
| 66749 | T-9                                                                               |        |                                                                                   |                                                                                   |                                                                                     |
| 66750 | T-10                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 66751 | T-15                                                                              | 37     | 15                                                                                |                                                                                   | ●                                                                                   |
| 66752 | T-20                                                                              |        |                                                                                   | 10                                                                                |                                                                                     |
| 66753 | T-25                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 66754 | T-27                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 66755 | T-30                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 66756 | T-40                                                                              |        |                                                                                   |                                                                                   |                                                                                     |







## ■ TORX® SERIE LARGA / TORX® LONG / TORX® SÉRIE LONGUE / TORX® LANGE SERIE / TORX® SERIE LUNGA / TORX® SÉRIE LONGA / TORX® ВЫСОКАЯ СЕРИЯ

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53027 | T-6                                                                               |        |                                                                                   |                                                                                   |                                                                                     |
| 53028 | T-7                                                                               |        |                                                                                   |                                                                                   |                                                                                     |
| 53029 | T-8                                                                               |        |                                                                                   |                                                                                   |                                                                                     |
| 53030 | T-9                                                                               | 50     | 18                                                                                | 10                                                                                | ●                                                                                   |
| 53031 | T-10                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 53032 | T-15                                                                              |        | 19                                                                                |                                                                                   |                                                                                     |







## ■ TAMPER TORX

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53000 | TT6                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |
| 53001 | TT7                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |
| 53002 | TT8                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |
| 53003 | TT9                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |
| 53004 | TT10                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53005 | TT15                                                                                |        | 14                                                                                  |                                                                                     |                                                                                       |
| 53006 | TT20                                                                                | 37     |                                                                                     | 10                                                                                  | ●                                                                                     |
| 53007 | TT25                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53008 | TT27                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53009 | TT30                                                                                |        | 15                                                                                  |                                                                                     |                                                                                       |
| 53010 | TT35                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53011 | TT40                                                                                |        | 16                                                                                  |                                                                                     |                                                                                       |



## ■ TAMPER TORX SERIE LARGA / TAMPER TORX LONG / TAMPER TORX SÉRIE LONGUE / TAMPER TORX LANGE SERIE / TAMPER TORX SERIE LUNGA / TAMPER TORX SÉRIE LONGA / TAMPER TORX ВЫСОКАЯ СЕРИЯ

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53034 | TT-6                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53035 | TT-7                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53036 | TT-8                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53037 | TT-9                                                                                | 50     | 18                                                                                  | 10                                                                                  | ●                                                                                     |
| 53038 | TT-10                                                                               |        |                                                                                     |                                                                                     |                                                                                       |
| 53039 | TT-15                                                                               |        |                                                                                     |                                                                                     |                                                                                       |



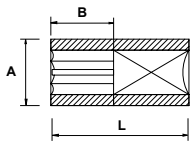
■ 1/4"

■ SET

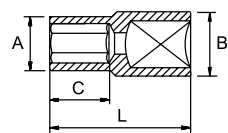
| COD.                              | AF inch | PCS. | g   |                                                  | COD. PCS.                                                  | Composición / Composition / Composition                  |
|-----------------------------------|---------|------|-----|--------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------|
| 66757                             | 1/4     | 12   | 250 | 1                                                | 66733, 66734, 66735, 66736, 66737, 66738, 66739,           | 0,8 x 4 - 1 x 5,5 - 1,2 x 6,5 - 1,2 x 8 mm - PH-1 - PH-2 |
| 66743, 66744, 66745, 66746, 66747 |         |      |     |                                                  | - PH-3 - HEX-3 - HEX-4 - HEX-5 - HEX-6 - HEX-8             |                                                          |
| 66758                             |         | 9    | 200 |                                                  | 66733, 66734, 66735, 66736, 66740, 66741, 66742,           | 0,8 x 4 - 1 x 5,5 - 1,2 x 6,5 - 1,2 x 8 mm - PZ-1 - PZ-2 |
| 66759                             |         |      |     | 66743, 66744, 66745, 66746, 66747                | - PZ-3 - HEX-3 - HEX-4 - HEX-5 - HEX-6 - HEX-8             |                                                          |
|                                   |         |      |     | 66748, 66749, 66750, 66751, 66752, 66753, 66754, | T-8 - T-9 - T-10 - T-15 - T-20 - T-25 - T-27 - T-30 - T-40 |                                                          |
|                                   |         |      |     | 66755, 66756                                     |                                                            |                                                          |


**ADAPTADOR / ADAPTER / ADAPTATEUR / VERBINDUNGSTEIL / ADATTATORE / REDUTOR / АДАПТЕР**

| COD.  | AF inch | AF inch | g  |   |   |
|-------|---------|---------|----|---|---|
| 65880 | 1/4-3/8 |         | 15 | 6 | ● |


**ADAPTADOR PORTAPUNTAS / BIT HOLDER SOCKET / ADAPTATEUR POUR EMBOUT PORTE-DOUILLE / BITHALTER STECKDOSE / ADATTATORE PORTAINSERTI / CHAVE DE CAIXA ADAPTADORA PARA PONTEIRAS / ПЕРЕХОДНИК (АДАПТЕР) ДЛЯ БИТОВ**
**ADAPTADOR CON CLIP DE RETENCIÓN / RETENTION CLIP ADAPTER / ADAPTATEUR AVEC CLIP DE RÉTENTION / HALTEKLAMMER ADAPTOR / ADATTATORE CON CLIP DI RITENZIONE / ADAPTADOR COM CLIP DE RETENÇÃO / ПЕРЕХОДНИК (АДАПТЕР) С УДЕРЖИВАЮЩИМ ШАРИКОМ**


| COD.  |           | L (mm) | A (mm) | B (mm) | g  |   |   |
|-------|-----------|--------|--------|--------|----|---|---|
| 62775 | 1/4"-1/4" | 25     | 12     | 12     | 10 | 6 | ● |


**ADAPTADOR CON RETÉN DE BOLA / BALL RETAINER ADAPTER / ADAPTATEUR AVEC BILLE DE RETENUE / ADAPTOR FÜR STECKSCHÜSSEL / ADATTATORE CON BLOCCO A SFERA / ADAPTADOR COM RETENTOR DE BOLA / ПЕРЕХОДНИК-ФИКСАТОР 1/4»ПАПА НА 1/4»МАМА ДЛЯ ГОЛОВОК**


| COD.  |           | L (mm) | A (mm) | B (mm) | C (mm) | g  |   |   |
|-------|-----------|--------|--------|--------|--------|----|---|---|
| 65846 | 1/4"-1/4" | 25     | 11     | 12     | 11     | 12 | 6 | ● |


**PUNTA PORTAVASOS / SOCKET HOLDER BIT / EMBOUT PORTE-DOUILLE / STECKDOSE HALTERBIT / INSERTO PORTA BUSSOLE / CHAVE DE CAIXA PORTA-PONTEIRAS / АДАПТЕР БИТ-ТРЕЩОТКИ**

| COD.  |           | L (mm) | g  |   |
|-------|-----------|--------|----|---|
| 55265 | 1/4"-1/4" | 25     | 10 | 6 |


**PUNTA ADAPTADORA PARA VASOS DE IMPACTO / ADAPTER BIT FOR IMPACT SOCKETS / EMBOUT ADAPTATEUR POUR DOUILLES À CHOC / ADAPTERBIT FÜR SCHLAGNÜSSE / INSERTO ADATTATORE PER BUSSOLE A MACCHINA / PONTA ADAPTADORA PARA CHAVES DE CAIXA DE IMPACTO / ПЕРЕХОДНИК ДЛЯ УДАРНЫХ БИТ**

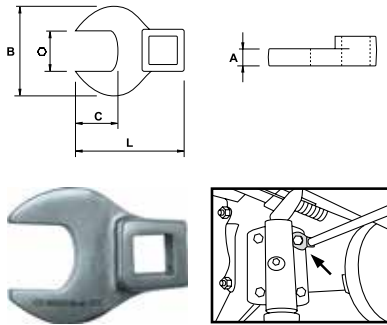
| COD.  |           | L (mm) | g  |   |
|-------|-----------|--------|----|---|
| 61695 | 1/4"-1/4" | 65     | 20 | 6 |



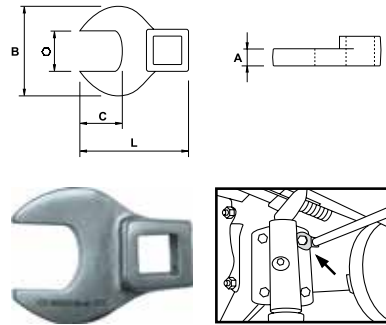
■ 1/4"

■ **LLAVE FIJA CROWFOOT / OPEN END CROWFOOT WRENCH / CLÉ À FOURCHE CROWFOOT / EINSTECK-MAULSCHLÜSSEL / CHIAVE FISSA CROWFOOT / PONTEIRA DE BOCA COM QUADRADO INTERIOR / РОЖКОВЫЙ КЛЮЧ С КВАДРАТОМ**

■ MM



■ INCH



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | g  | Icon 1 | Icon 2 |
|-------|-------|--------|--------|--------|--------|----|--------|--------|
| 57211 | 7     | 30     | 6      | 25     | 6      | 70 | 10     | ●      |
| 57212 | 8     | 31     |        | 26     | 7      |    |        |        |
| 57213 | 9     | 33     |        | 28     | 8      |    |        |        |
| 57214 | 10    | 35     |        | 30     | 9      |    |        |        |
| 57215 | 11    | 36     | 7      | 31     | 11     | 95 |        |        |
| 57216 | 12    | 38     |        | 34     | 12     |    |        |        |
| 57217 | 13    | 39     |        | 35     | 13     |    |        |        |

| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | g   | Icon 1 | Icon 2 |
|-------|---------|--------|--------|--------|--------|-----|--------|--------|
| 57218 | 5/16    | 31     | 6      | 26     | 7      | 70  | 10     | ●      |
| 57219 | 3/8     | 33     |        | 28     | 8      |     |        |        |
| 57220 | 7/16    | 35     |        | 30     | 9      |     |        |        |
| 57221 | 1/2     | 38     |        | 34     | 12     |     |        |        |
| 57222 | 9/16    | 39     | 7      | 36     | 14     | 100 |        |        |

■ **DESTORNILLADOR PORTAVASOS / SOCKET HOLDER / TOURNEVIS PORTE-DOUILLE / STECKSCHLÜSSEL-HALTER / CACCIAVITE PORTA BUSSOLA / APARAFUSADOR PORTA CHAVES CAIXA / ДЕРЖАТЕЛЬ ГОЛОВКИ**

| COD.  | AF inch | L (mm) | g  | Icon 1 | Icon 2 |
|-------|---------|--------|----|--------|--------|
| 66732 | 1/4     | 180    | 95 | 6      | ●      |



| COD.  | AF inch | AF inch | L (mm) | g  | Icon 1 | Icon 2 |
|-------|---------|---------|--------|----|--------|--------|
| 61281 | 1/4     | 1/4     | 150    | 80 | 6      | ●      |



■ **DESTORNILLADOR PORTAPUNTAS MAGNÉTICO / MAGNETIC BITHOLDER SCREWDRIVER / TOURNEVIS PORTE-EMBOUITS MAGNÉTIQUE / MAGNETISCHER BITHALTER-SCHRAUBENDREHER / CACCIAVITE PORTA INSERTI MAGNETICOM / CHAVE PORTA PONTAS MAGNETICO / ОТВЕРТКА С МАГНИТНЫМ БИТОДЕРЖАТЕЛЕМ**

| COD.  | inch | L (mm) | g   | Icon 1 | Icon 2 |
|-------|------|--------|-----|--------|--------|
| 66731 | 1/4  | 215    | 105 | 6      | ●      |



| COD.  | inch | L (mm) | g   | Icon 1 | Icon 2 |
|-------|------|--------|-----|--------|--------|
| 76737 | 1/4  | 210    | 120 | 6      | ●      |



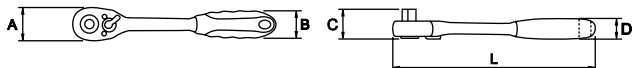
⚠ 1000V I IEC 60900

| COD.  | inch | L (mm) | g  | Icon 1 | Icon 2 |
|-------|------|--------|----|--------|--------|
| 66249 | 1/4  | 150    | 75 | 6      | ●      |



## ■ 1/4"

LLAVE DE CARRACA REVERSIBLE (VASOS Y PUNTAS) / REVERSIBLE RATCHET WRENCH (SOCKETS AND BITS) / CLÉ À CLIQUET RÉVERSIBLE (DOUILLES ET EMBOUTS) / UMSCHALTKNARRE (STECKSCHLÜSSEL UND BITS) / CHIAVE A CRICCO REVERSIBILE (BUSSOLE E INSERTI) / ROQUETE REVERSIVEL (CHAVES DE CAIXA E PONTAS) / РЕВЕРСИВНАЯ ТРЕЩЕТКА (ГОЛОВКИ И БИТЫ)

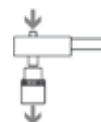


| COD.  | AF inch | L (mm) | Hex | A (mm) | B (mm) | C (mm) | D (mm) | g  | Icon | Icon |
|-------|---------|--------|-----|--------|--------|--------|--------|----|------|------|
| 62620 | 1/4     | 95     | 1/4 | 26     | 16     | 23     | 14     | 60 | 6    | ●    |

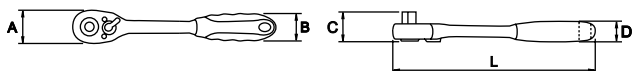
DIN 3122

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

Reducido tamaño para lugares de difícil acceso / Small size for inaccessible places / Diminution de la dimensions pour lieux difficiles d'accès

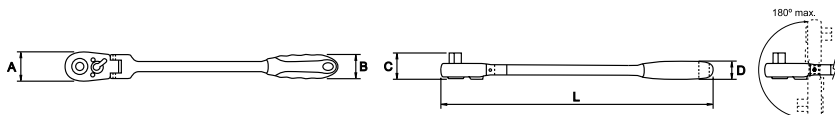
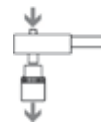


LLAVE DE CARRACA REVERSIBLE / REVERSIBLE RATCHET HANDLE / CLÉ À CLIQUET RÉVERSIBLE / UMSCHALTKNARRE / CHIAVE A CRICCO REVERSIBILE / ROQUETE REVERSIVEL / РЕВЕРСИВНАЯ ТРЕЩЕТКА



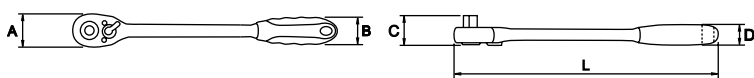
| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   | Icon | Icon |
|-------|---------|--------|--------|--------|--------|--------|-----|------|------|
| 62603 | 1/4     | 140    | 23     | 21     | 22     | 17     | 105 | 6    | ●    |

DIN 3122



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   | Icon | Icon |
|-------|---------|--------|--------|--------|--------|--------|-----|------|------|
| 57411 | 1/4     | 160    | 22     | 21     | 23     | 17     | 120 | 6    | ●    |

DIN 3122



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   | Icon | Icon |
|-------|---------|--------|--------|--------|--------|--------|-----|------|------|
| 57414 | 1/4     | 180    | 23     | 21     | 21     | 17     | 150 | 6    | ●    |

DIN 3122



■ MANGO CORREDIZO EN "T" / SLIDING "T" HANDLE / POIGNÉE COULISSANTE / QUERGRIF / ASTA CON QUADRO SCORREVOLO / CABO "T" CORREDIÇO / ПОДВИЖНАЯ "Т" РУЧКА

| COD.  | AF inch | L (mm) | g  | Icon | Icon |
|-------|---------|--------|----|------|------|
| 61438 | 1/4     | 115    | 60 | 5    | ●    |

DIN 3122



■ ARTICULACIÓN UNIVERSAL / UNIVERSAL JOINT / CARDAN UNIVERSEL / KARDANGELNENK / SNODO CARDANICO / CARDAN UNIVERSAL / ШАРНИР

| COD.  | AF inch | g  | Icon | Icon |
|-------|---------|----|------|------|
| 61435 | 1/4     | 30 | 10   | ●    |

DIN 3123



## ■ 1/4"

## ■ ALARGADERA / EXTENSION / RALLONGE / VERLÄNGERUNG / PROLUNGA / EXTENÇÃO / УДЛИНИТЕЛЬ

| COD.  | AF<br>inch | L (inch) | g   |   |   |
|-------|------------|----------|-----|---|---|
| 61442 | 1/4        | 2        | 25  | 5 | ● |
| 61454 |            | 3        | 35  |   |   |
| 61443 |            | 4        | 45  |   |   |
| 61444 |            | 6        | 65  |   |   |
| 62731 |            | 10       | 110 |   |   |
| 59092 |            | 14       | 154 |   |   |
| 59093 |            | 24       | 264 |   |   |
| 59094 |            | 36       | 396 |   |   |

DIN 3123

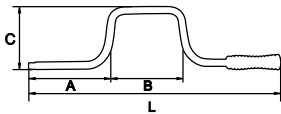


## ■ ALARGADERA ANGULAR / WOBBLER DRIVE EXTENSION / RALLONGE ANGULAIRE / WACKELANTRIEBSERWEITERUNG / PROLUNGA ANGOLARE / EXTENSÃO ANGULAR / УГЛОВОЙ УДЛИНИТЕЛЬ

| COD.  | AF<br>inch | L (inch) | g  |   |   |
|-------|------------|----------|----|---|---|
| 59098 | 1/4        | 2        | 23 | 5 | ● |
| 59099 |            | 6        | 65 |   |   |
| 59100 |            | 10       | 95 |   |   |



## ■ BERBIQUÍ / SPEEDER HANDLE / VILEBREQUIN / KURBEL / LEVA GIROBECCHINO / MANIVELA / КОЛЕНЧАТАЯ РУЧКА



| COD.  | AF<br>inch | L (mm) | A (mm) | B (mm) | C (mm) | g   |   |   |
|-------|------------|--------|--------|--------|--------|-----|---|---|
| 61408 | 1/4        | 425    | 130    | 145    | 100    | 450 | 5 | ● |

DIN 3122



## ■ ALARGADERA FLEXIBLE / FLEXIBLE HANDLE / RALLONGE FLEXIBLE / GELENK-STECKGRIFF / PROLUNGA FLESSIBILE / EXTENSÃO FLEXÍVEL / ГИБКАЯ РУКОЯТКА

| COD.  | AF<br>inch | L (inch) | g  |   |   |
|-------|------------|----------|----|---|---|
| 61445 | 1/4        | 6        | 60 | 5 | ● |

DIN 3122



## ■ MANGO ARTICULADO / SWIVEL HANDLE / MANCHE ARTICULÉ / GELENKGRIF / IMPUGNATURA SNODABILE / CABO ARTICULADO / РУЧКА С ШАРНИРОМ

| COD.  | AF<br>inch | L (mm) | g   |   |   |
|-------|------------|--------|-----|---|---|
| 65874 | 1/4        | 150    | 260 | 5 | ● |



## ■ ADAPTADOR PLANO / FLAT ADAPTER / ADAPTATEUR PLAT / FLACHADAPTER / ADATTATORE PIATTO / ADAPTADOR PLANO / ПЛОСКИЙ ПЕРЕХОДНИК

| COD.  | IN (inch) | OUT (inch) | L (mm) | Ø 1 (mm) | g  |
|-------|-----------|------------|--------|----------|----|
| 59121 | 1/4       | 3/8        | 13     | 29       | 15 |





# 09

**LLAVES DE VASO**  
**SOCKET WRENCHES**  
**DOUILLES**  
**STECKSCHLÜSSEL**  
**BUSSOLE**  
**CHAVES DE CAIXA**  
**ГОЛОВКИ**

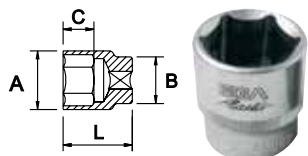


■ 3/8"

■ STANDARD

■ MM

■ 6 PT. - 3/8"



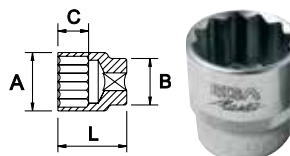
| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt  |    |  |   |
|-------|-------|--------|--------|--------|--------|-----|----|--|---|
| 67541 | 6     |        | 10     |        | 9      | 20  |    |  |   |
| 67542 | 7     |        | 11     |        | 9      | 20  |    |  |   |
| 67543 | 8     |        | 12     |        | 9      | 20  |    |  |   |
| 67544 | 9     |        | 14     | 17     | 9      | 20  | 25 |  |   |
| 67545 | 10    |        | 15     | 17     | 10     | 20  |    |  |   |
| 67546 | 11    |        | 16     | 17     | 10     | 20  |    |  |   |
| 67547 | 12    |        | 16     | 17     | 10     | 25  |    |  |   |
| 67548 | 13    |        | 18     | 17     | 10     | 28  | 20 |  |   |
| 67549 | 14    | 28     | 20     | 18     | 12     | 32  | 20 |  |   |
| 67550 | x 15  |        | 21     | 19     | 12     | 6   | 15 |  | • |
| 67551 | 16    |        | 22     | 19     | 14     | 48  | 15 |  | • |
| 67552 | 17    |        | 24     | 21     | 15     | 55  | 12 |  |   |
| 67553 | 18    |        | 25     | 22     | 15     | 80  | 10 |  |   |
| 67554 | 19    |        | 26     | 22     | 15     | 80  | 10 |  |   |
| 67555 | 20    |        | 28     | 26     | 15     | 100 | 10 |  |   |
| 67556 | 21    |        | 28     | 26     | 15     | 100 | 10 |  |   |
| 67557 | 22    |        | 30     | 28     | 17     | 100 | 10 |  |   |
| 67558 | 23    | 32     | 32     | 28     | 17     | 100 | 10 |  |   |
| 67559 | 24    | 32     | 32     | 28     | 17     | 100 | 10 |  |   |

○ I DIN 3124

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

■ 12 PT. - 3/8"



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt  |    |  |   |
|-------|-------|--------|--------|--------|--------|-----|----|--|---|
| 67539 | 6     |        | 10     |        | 9      | 20  |    |  |   |
| 67540 | 7     |        | 11     |        | 9      | 20  |    |  |   |
| 61343 | 8     |        | 12     |        | 9      | 20  |    |  |   |
| 61344 | 9     |        | 14     | 17     | 9      | 20  | 25 |  |   |
| 61345 | 10    |        | 15     | 17     | 10     | 25  |    |  |   |
| 61346 | 11    |        | 16     | 17     | 10     | 25  |    |  |   |
| 61347 | 12    |        | 16     | 17     | 10     | 25  |    |  |   |
| 61348 | 13    |        | 18     | 17     | 10     | 28  | 20 |  |   |
| 61349 | 14    | 28     | 20     | 18     | 12     | 32  | 20 |  |   |
| 61350 | x 15  |        | 21     | 19     | 12     | 6   | 15 |  | • |
| 61351 | 16    |        | 22     | 19     | 14     | 48  | 15 |  | • |
| 61352 | 17    |        | 24     | 21     | 15     | 55  | 12 |  |   |
| 61353 | 18    |        | 25     | 22     | 15     | 80  | 10 |  |   |
| 61354 | 19    |        | 26     | 22     | 15     | 80  | 10 |  |   |
| 61355 | 20    |        | 28     | 26     | 15     | 100 | 10 |  |   |
| 61356 | 21    |        | 28     | 26     | 15     | 100 | 10 |  |   |
| 61357 | 22    |        | 30     | 28     | 17     | 100 | 10 |  |   |
| 67560 | 23    | 32     | 32     | 28     | 17     | 100 | 10 |  |   |
| 67561 | 24    | 32     | 32     | 28     | 17     | 100 | 10 |  |   |

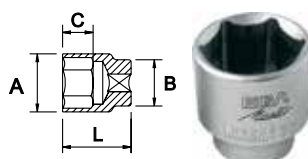
○ I DIN 3124

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

■ INCH

■ 6 PT. - 3/8"



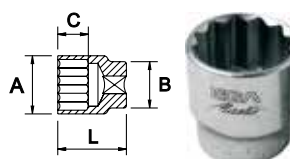
| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt |    |  |   |
|-------|---------|--------|--------|--------|--------|----|----|--|---|
| 67620 | 1/4     |        | 11     |        | 10     | 22 |    |  |   |
| 67621 | 9/32    |        | 12     | 17     | 10     | 22 | 25 |  |   |
| 67622 | 5/16    |        | 12     | 17     | 10     | 24 | 25 |  |   |
| 67623 | y 11/32 | 28     | 13     | 17     | 10     | 24 | 25 |  | • |
| 67624 | 3/8     |        | 15     | 17     | 10     | 26 | 20 |  |   |
| 67625 | 7/16    |        | 16     | 17     | 10     | 30 | 20 |  |   |
| 67626 | 1/2     |        | 18     | 18     | 12     | 30 | 20 |  |   |
| 67627 | 9/16    |        | 20     | 21     | 12     | 31 | 20 |  |   |

○ I DIN 3124

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

■ 12 PT. - 3/8"



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt  |    |  |   |
|-------|---------|--------|--------|--------|--------|-----|----|--|---|
| 60439 | 1/4     |        | 11     |        | 10     | 22  |    |  |   |
| 60440 | 5/16    |        | 12     | 17     | 10     | 24  | 25 |  |   |
| 60441 | 11/32   |        | 13     | 17     | 10     | 24  | 25 |  |   |
| 60442 | 3/8     |        | 15     | 17     | 10     | 26  | 20 |  |   |
| 60443 | 7/16    | 28     | 16     | 17     | 10     | 26  | 20 |  |   |
| 60444 | 1/2     |        | 18     | 18     | 12     | 30  | 20 |  |   |
| 60445 | 9/16    |        | 20     | 21     | 12     | 31  | 20 |  |   |
| 60446 | y 19/32 |        | 21     | 19     | 12     | 35  | 15 |  | • |
| 60447 | 5/8     |        | 22     | 23     | 13     | 45  | 15 |  |   |
| 60448 | 11/16   |        | 24     | 23     | 13     | 50  | 12 |  |   |
| 60449 | 3/4     | 30     | 26     | 24     | 17     | 60  | 10 |  |   |
| 60450 | 13/16   |        | 28     | 28     | 17     | 75  | 10 |  |   |
| 60451 | 7/8     |        | 30     | 28     | 17     | 80  | 10 |  |   |
| 60452 | 15/16   | 32     | 32     | 30     | 20     | 90  | 10 |  |   |
| 60453 | 1       |        | 34     | 30     | 20     | 100 | 10 |  |   |

○ I DIN 3124

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

x 50% cromado aeroespacial - 50% cromado pulido espejo / 50% aerospaceal chrome plating - 50% mirror polished chrome plating / 50% chromée aérospatiale - 50% polie chromée  
y 100% cromado pulido espejo / 100% mirror polished chrome plating / 100% polie chromée

Si no encuentra el artículo que necesita, consúltenos en [consulta@egamaster.com](mailto:consulta@egamaster.com) o en [www.egamaster.com](http://www.egamaster.com)  
If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
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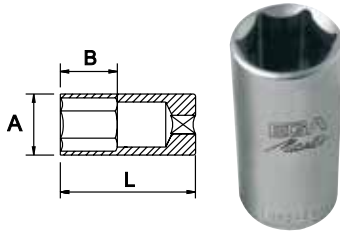


■ 3/8"

■ SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

■ MM

■ 6 PT. - 3/8"



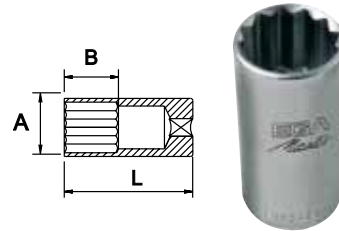
| COD.  | AF mm | L (mm) | A (mm) | B (mm) | Pt  | g  | Icon 1 | Icon 2 | Icon 3 |
|-------|-------|--------|--------|--------|-----|----|--------|--------|--------|
| 67705 | 7     |        | 11     | 16     | 41  |    |        |        |        |
| 67706 | 8     |        | 12     | 16     | 42  |    |        |        |        |
| 67707 | 9     |        | 13     | 18     | 50  |    |        |        |        |
| 67708 | 10    |        | 15     | 20     | 55  |    |        |        |        |
| 67709 | 11    |        | 17     | 24     | 70  |    |        |        |        |
| 67710 | 12    |        | 17     | 25     | 70  |    |        |        |        |
| 67711 | 13    |        | 19     | 25     | 80  |    |        |        |        |
| 67712 | x 14  | 65     | 20     | 27     | 85  | 10 | ●      |        |        |
| 67713 | 15    |        | 21     | 27     | 105 |    |        |        |        |
| 67714 | 16    |        | 22     | 27     | 130 |    |        |        |        |
| 67715 | 17    |        | 24     | 27     | 150 |    |        |        |        |
| 67716 | 18    |        | 26     | 28     | 160 |    |        |        |        |
| 67717 | 19    |        | 26     | 28     | 160 |    |        |        |        |
| 67719 | 21    |        | 28     | 30     | 200 |    |        |        |        |
| 67720 | 22    |        | 30     | 30     | 200 |    |        |        |        |



CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

■ 12 PT. - 3/8"



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | Pt  | g  | Icon 1 | Icon 2 | Icon 3 |
|-------|-------|--------|--------|--------|-----|----|--------|--------|--------|
| 67725 | 7     |        | 11     | 16     | 41  |    |        |        |        |
| 67726 | 8     |        | 12     | 16     | 42  |    |        |        |        |
| 67727 | 9     |        | 13     | 18     | 50  |    |        |        |        |
| 67728 | 10    |        | 15     | 20     | 55  |    |        |        |        |
| 67729 | 11    |        | 17     | 24     | 70  |    |        |        |        |
| 67730 | 12    |        | 17     | 25     | 70  |    |        |        |        |
| 67731 | 13    |        | 19     | 25     | 80  |    |        |        |        |
| 67732 | x 14  | 65     | 20     | 27     | 85  | 10 | ●      |        |        |
| 67733 | 15    |        | 21     | 27     | 105 |    |        |        |        |
| 67734 | 16    |        | 22     | 27     | 130 |    |        |        |        |
| 67735 | 17    |        | 24     | 27     | 150 |    |        |        |        |
| 67736 | 18    |        | 26     | 28     | 160 |    |        |        |        |
| 67737 | 19    |        | 26     | 28     | 160 |    |        |        |        |
| 67738 | 20    |        | 28     | 30     | 200 |    |        |        |        |
| 67739 | 21    |        | 28     | 30     | 200 |    |        |        |        |
| 67740 | 22    |        | 30     | 30     | 200 |    |        |        |        |



CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

■ INCH

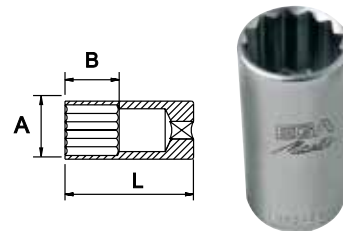
■ 12 PT. - 3/8"

| COD.  | AF inch | L (mm) | A (mm) | B (mm) | Pt  | g  | Icon 1 | Icon 2 | Icon 3 |
|-------|---------|--------|--------|--------|-----|----|--------|--------|--------|
| 67750 | 1/4     |        | 11     | 17     | 49  |    |        |        |        |
| 67751 | 5/16    |        | 12     | 22     | 50  |    |        |        |        |
| 67752 | 3/8     |        | 15     | 23     | 60  |    |        |        |        |
| 67753 | 7/16    |        | 16     | 23     | 60  |    |        |        |        |
| 67754 | 1/2     |        | 19     | 26     | 75  |    |        |        |        |
| 67755 | 9/16    |        | 20     | 26     | 80  |    |        |        |        |
| 67756 | y 19/32 | 65     | 21     | 27     | 90  | 10 | ●      |        |        |
| 67757 | 5/8     |        | 22     | 27     | 100 |    |        |        |        |
| 67758 | 11/16   |        | 23     | 27     | 135 |    |        |        |        |
| 67759 | 3/4     |        | 26     | 28     | 165 |    |        |        |        |
| 67760 | 13/16   |        | 28     | 28     | 190 |    |        |        |        |
| 67761 | 7/8     |        | 30     | 30     | 230 |    |        |        |        |
| 67762 | 15/16   |        | 30     | 30     | 230 |    |        |        |        |



CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

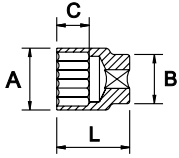
Cr-V



x 50% cromado aeroespacial - 50% cromado pulido espejo / 50% aerospace chrome plating - 50% mirror polished chrome plating / 50% chromée aérospatiale - 50% polie chromée  
y 100% cromado pulido espejo / 100% mirror polished chrome plating / 100% polie chromée

■ 3/8"

■ TORX®\*



| COD.  |     | L (mm) | A (mm) | B (mm) | C (mm) |    |    |   |
|-------|-----|--------|--------|--------|--------|----|----|---|
| 57171 | E8  | 28     | 12     | 17     | 10     | 25 | 20 | ● |
| 57172 | E10 |        | 15     |        |        |    |    |   |
| 57173 | E11 |        | 16     |        |        |    |    |   |
| 57174 | E12 |        | 18     |        |        |    |    |   |
| 57175 | E14 |        | 19     |        |        |    |    |   |
| 57176 | E16 | 29     | 22     | 19     | 38     | 10 |    |   |
| 57177 | E18 | 30     | 24     | 21     | 50     |    |    |   |
| 57178 | E20 |        |        |        |        |    |    |   |



■ **LLAVES DE VASO ARTICULADAS / UNIVERSAL SOCKET / DOUILLES ARTICULÉES / STECKSCHLÜSSELGELENK / CHIAVE A BUSSOLA ARTICOLATA / CHAVES DE CAIXA ARTICULADAS / УНИВЕРСАЛЬНАЯ ГОЛОВКА С ШАРНИРОМ**

■ MM

■ INCH



| COD.  |    | L (mm) |    |    |   |
|-------|----|--------|----|----|---|
| 57293 | 10 | 45     | 55 | 10 | ● |
| 57294 | 11 | 47     | 57 |    |   |
| 57295 | 12 |        | 59 |    |   |
| 57296 | 13 |        | 61 |    |   |
| 57297 | 15 |        | 50 |    |   |
| 57298 | 17 | 76     |    |    |   |
| 57299 | 18 |        |    |    |   |
| 57300 | 19 |        |    |    |   |

| COD.  |       | L (mm) |      |    |   |
|-------|-------|--------|------|----|---|
| 57301 | 3/8   | 46     | 55   | 10 | ● |
| 57302 | 7/16  |        | 57   |    |   |
| 57303 | 1/2   | 47     | 59   |    |   |
| 57304 | 9/16  |        | 65,5 |    |   |
| 57305 | 5/8   |        | 71   |    |   |
| 57306 | 11/16 | 50     | 76   |    |   |
| 57307 | 3/4   | 51     |      |    |   |



■ TORX®\*

| COD.  |     | L (mm) |    |    |   |
|-------|-----|--------|----|----|---|
| 57308 | E8  | 46     | 56 | 10 | ● |
| 57309 | E10 |        |    |    |   |
| 57310 | E12 |        |    |    |   |
| 57311 | E14 |        |    |    |   |
| 57312 | E16 |        |    |    |   |







x 50% cromado aeroespacial - 50% cromado pulido espejo / 50% aerospaceal chrome plating - 50% mirror polished chrome plating / 50% chromée aérospatiale - 50% polie chromée





y 100% cromado pulido espejo / 100% mirror polished chrome plating / 100% polie chromée

\*Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)





**3/8"**
**PUNTAS ATORNILLADORAS CON VASO / SOCKET BITS / EMBOUTS DE VISSAGE AVEC DOUILLE / STECKSCHLÜSSELEINSATZ / INSERTI A BUSSOLA / PONTAS APARAFUSADORAS COM CAIXA / ГОЛОВКИ-БИТЫ**
**PLANA / FLAT / À FENTE / FLACH / PIATTA / PLANA / ПЛОСКАЯ**

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66760 | 1 x 5,5                                                                           | 48     | 35                                                                                | 10                                                                                | ●                                                                                   |
| 66761 | 1,2 x 6,5                                                                         |        |                                                                                   |                                                                                   |                                                                                     |
| 66762 | 1,2 x 8                                                                           |        |                                                                                   |                                                                                   |                                                                                     |
| 66763 | 1,5 x 8                                                                           |        |                                                                                   |                                                                                   |                                                                                     |
| 66764 | 1,6 x 10                                                                          |        |                                                                                   |                                                                                   |                                                                                     |






**PLANA SERIE LARGA / SLOTTED LONG / À FENTE SÉRIE LONGUE / LANG GESCHLITZT / PIATTA SERIE LUNGA / FENDA SÉRIE LONGA / ПЛОСКАЯ ВЫСОКАЯ СЕРИЯ**

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53078 | 1,2 x 6,5                                                                         | 100    | 46                                                                                | 10                                                                                | ●                                                                                   |
| 53079 | 1,2 x 8                                                                           |        |                                                                                   |                                                                                   |                                                                                     |
| 53080 | 1,6 x 10                                                                          |        |                                                                                   |                                                                                   |                                                                                     |






**PHILLIPS®\***

| COD.  |  | L (mm) |  |  |  |
|-------|------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 66765 | PH-1                                                                               | 48     | 35                                                                                 | 10                                                                                 | ●                                                                                    |
| 66766 | PH-2                                                                               |        |                                                                                    |                                                                                    |                                                                                      |
| 66767 | PH-3                                                                               |        |                                                                                    |                                                                                    |                                                                                      |


**PHILLIPS®\* SERIE LARGA / PHILLIPS®\* LONG / PHILLIPS®\* SÉRIE LONGUE / PHILLIPS®\* LANGE SERIE / PHILLIPS®\* SERIE LUNGA / PHILLIPS®\* SÉRIE LONGA / PHILLIPS®\* ВЫСОКАЯ СЕРИЯ**

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53082 | PH-1                                                                                | 100    | 46                                                                                  | 10                                                                                  | ●                                                                                     |
| 53083 | PH-2                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53084 | PH-3                                                                                |        |                                                                                     |                                                                                     |                                                                                       |


**POZIDRIV®\*\***

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66768 | PZ-1                                                                                | 48     | 35                                                                                  | 10                                                                                  | ●                                                                                     |
| 66769 | PZ-2                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 66770 | PZ-3                                                                                |        |                                                                                     |                                                                                     |                                                                                       |


**POZIDRIV®\*\* SERIE LARGA / POZIDRIV®\*\* LONG / POZIDRIV®\*\* SÉRIE LONGUE / POZIDRIV®\*\* LANGE SERIE / POZIDRIV®\*\* SERIE LUNGA / POZIDRIV®\*\* SÉRIE LONGA / POZIDRIV®\*\* ВЫСОКАЯ СЕРИЯ**

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53086 | PZ-0                                                                                | 100    | 46                                                                                  | 10                                                                                  | ●                                                                                     |
| 53087 | PZ-1                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53088 | PZ-2                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53089 | PZ-3                                                                                |        |                                                                                     |                                                                                     |                                                                                       |







\*Para tornillos PHILLIPS® (Marca registrada por Phillips Screw Company) / \*For screws PHILLIPS® (Phillips Screw Company registered trademark) / \*Pour vis PHILLIPS® (Marque enregistrée par Phillips Screw Company)  
 \*\*Para tornillos POZIDRIV® (Marca registrada por European Ind. Serv. Ltd.) / \*\*For screws POZIDRIV® (European Ind. Serv. Ltd. registered trademark) / \*\*Pour vis POZIDRIV® (Marque enregistrée par European Ind. Serv. Ltd.)

## ■ 3/8"





## ■ HEXAGONAL / HEXAGONAL / HEXAGONALE / HEXAGONAL / ESAGONALE / HEXAGONAL / ШЕСТИГРАННАЯ

## ■ MM

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66771 | 3                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |
| 55701 | 3,5                                                                               |        |                                                                                   |                                                                                   |                                                                                     |
| 66772 | 4                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |
| 66773 | 5                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |
| 55702 | 5,5                                                                               | 48     | 35                                                                                | 10                                                                                | ●                                                                                   |
| 66774 | 6                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |
| 66775 | 7                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |
| 66776 | 8                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |
| 55703 | 9,5                                                                               |        |                                                                                   |                                                                                   |                                                                                     |
| 66777 | 10                                                                                |        |                                                                                   |                                                                                   |                                                                                     |







## ■ INCH

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 55680 | 1/8                                                                               |        |                                                                                   |                                                                                   |                                                                                     |
| 55681 | 9/64                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 55682 | 5/32                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 55683 | 3/16                                                                              | 48     | 35                                                                                | 10                                                                                | ●                                                                                   |
| 55684 | 7/32                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 55685 | 1/4                                                                               |        |                                                                                   |                                                                                   |                                                                                     |
| 55686 | 5/16                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 55687 | 3/8                                                                               |        |                                                                                   |                                                                                   |                                                                                     |







## ■ HEXAGONAL SERIE LARGA / HEXAGONAL LONG / HEXAGONALE SÉRIE LONGUE / HEXAGONAL LANG / ESAGONALE SERIE LUNGA / HEXAGONAL SÉRIE LONGA / ШЕСТИГРАННАЯ ВЫСОКАЯ СЕРИЯ

## ■ MM

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66778 | 4                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |
| 66779 | 5                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |
| 66780 | 6                                                                                   | 92     | 70                                                                                  | 10                                                                                  | ●                                                                                     |
| 66781 | 8                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |
| 66782 | 10                                                                                  |        |                                                                                     |                                                                                     |                                                                                       |







## ■ INCH

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 56975 | 1/8                                                                                 |        | 90                                                                                  |                                                                                     |                                                                                       |
| 56976 | 9/64                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 56977 | 5/32                                                                                |        | 95                                                                                  |                                                                                     |                                                                                       |
| 56978 | 3/16                                                                                | 100    | 100                                                                                 | 10                                                                                  | ●                                                                                     |
| 56979 | 7/32                                                                                |        | 110                                                                                 |                                                                                     |                                                                                       |
| 56980 | 1/4                                                                                 |        | 115                                                                                 |                                                                                     |                                                                                       |
| 56981 | 5/16                                                                                |        | 170                                                                                 |                                                                                     |                                                                                       |
| 56982 | 3/8                                                                                 |        | 235                                                                                 |                                                                                     |                                                                                       |







## ■ HEXAGONAL PUNTA DE BOLA SERIE LARGA / HEXAGONAL BALL POINT LONG SERIE / HEXAGONALE EMBOUT SPHÉRIQUE SÉRIE LONGUE / HEXAGONAL KUGELKOPF LANG / ESAGONALE TESTA SFERICA SERIE LUNGO / HEXAGONAL PONTA ESFERICA SÉRIE LONGA / ШЕСТИГРАННАЯ С ШАРОВОЙ ГОЛОВКОЙ ДЛИННАЯ





| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66783 | 4                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |
| 66784 | 5                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |
| 66785 | 6                                                                                   | 92     | 70                                                                                  | 10                                                                                  | ●                                                                                     |
| 66786 | 8                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |
| 66787 | 10                                                                                  |        |                                                                                     |                                                                                     |                                                                                       |







**3/8"**
**TORX®\***

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66788 | T-10                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 66789 | T-15                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 66790 | T-20                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 66791 | T-25                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 66792 | T-27                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 66793 | T-30                                                                              | 48     | 35                                                                                | 10                                                                                | ●                                                                                   |
| 58891 | T-35                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 66794 | T-40                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 66795 | T-45                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 66796 | T-50                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 53063 | T-60                                                                              |        |                                                                                   |                                                                                   |                                                                                     |






**TORX® SERIE LARGA / TORX® LONG / TORX® SÉRIE LONGUE / TORX® LANGE SERIE / TORX® SERIE LUNGA / TORX® SÉRIE LONGA / TORX® ВЫСОКАЯ СЕРИЯ**

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 58173 | T-15                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 58174 | T-20                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 58175 | T-25                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 58176 | T-27                                                                              | 75     | 55                                                                                | 10                                                                                | ●                                                                                   |
| 58177 | T-30                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 58178 | T-40                                                                              |        |                                                                                   |                                                                                   |                                                                                     |







| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53091 | T-10                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53092 | T-15                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53093 | T-17                                                                                |        | 46                                                                                  |                                                                                     |                                                                                       |
| 53094 | T-20                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 58892 | T-25                                                                                | 90     |                                                                                     | 10                                                                                  | ●                                                                                     |
| 53096 | T-27                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 58893 | T-30                                                                                |        | 47                                                                                  |                                                                                     |                                                                                       |
| 58894 | T-35                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 58895 | T-50                                                                                |        | 60                                                                                  |                                                                                     |                                                                                       |

**TAMPER TORX**

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53065 | TT-10                                                                               |        | 32                                                                                  |                                                                                     |                                                                                       |
| 53066 | TT-15                                                                               |        |                                                                                     |                                                                                     |                                                                                       |
| 53067 | TT-20                                                                               |        |                                                                                     |                                                                                     |                                                                                       |
| 53068 | TT-25                                                                               |        | 33                                                                                  |                                                                                     |                                                                                       |
| 53069 | TT-27                                                                               |        |                                                                                     |                                                                                     |                                                                                       |
| 53070 | TT-30                                                                               |        |                                                                                     |                                                                                     |                                                                                       |
| 53071 | TT-35                                                                               | 48     | 34                                                                                  | 10                                                                                  | ●                                                                                     |
| 53072 | TT-40                                                                               |        |                                                                                     |                                                                                     |                                                                                       |
| 58896 | TT-45                                                                               |        |                                                                                     |                                                                                     |                                                                                       |
| 53074 | TT-50                                                                               |        | 39                                                                                  |                                                                                     |                                                                                       |
| 53075 | TT-55                                                                               |        |                                                                                     |                                                                                     |                                                                                       |
| 53076 | TT-60                                                                               |        | 50                                                                                  |                                                                                     |                                                                                       |






**TAMPER TORX SERIE LARGA / TAMPER TORX LONG / TAMPER TORX SÉRIE LONGUE / TAMPER TORX LANGE SERIE / TAMPER TORX SERIE LUNGA / TAMPER TORX SÉRIE LONGA / TAMPER TORX ВЫСОКАЯ СЕРИЯ**

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53098 | TT-10                                                                               |        | 46                                                                                  |                                                                                     |                                                                                       |
| 53099 | TT-15                                                                               | 100    |                                                                                     | 10                                                                                  | ●                                                                                     |
| 53101 | TT-20                                                                               |        | 47                                                                                  |                                                                                     |                                                                                       |






\*Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)






**3/8"**

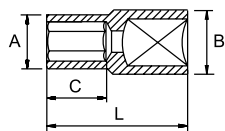
| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53102 | TT-25                                                                             |        | 47                                                                                |                                                                                   |                                                                                     |
| 53103 | TT-27                                                                             | 100    |                                                                                   | 10                                                                                | ●                                                                                   |
| 58897 | TT-45                                                                             |        | 110                                                                               |                                                                                   |                                                                                     |





**SET**

| COD.  |  | PCS. |  |  | COD. PCS.                                                                          | Composición / Composition / Composition                                                                                  |
|-------|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 66797 |                                                                                   | 11   | 450                                                                               |                                                                                   | 66760, 66761, 66762, 66763, 66764, 66765, 66766, 66767, 66768, 66769, 66770        | 1 x 5,5 - 1,2 x 6,5 - 1,2 x 8 - 1,5 x 8 - 1,6 x 10 mm - PH-1 - PH-2 - PH-3 - PZ-1 - PZ-2 - PZ-3                          |
| 66798 |                                                                                   | 12   | 650                                                                               | 1                                                                                 | 66771, 66772, 66773, 66774, 66775, 66776, 66777, 66778, 66779, 66780, 66781, 66782 | HEX-3 - HEX-4 - HEX-5 - HEX-6 - HEX-7 - HEX-8 - HEX-10 - HEX-4(L) - HEX-5(L) - HEX-6(L) - HEX-8(L) - HEX-10(L)           |
| 66799 | 3/8                                                                               | 12   | 650                                                                               | 1                                                                                 | 66771, 66772, 66773, 66774, 66775, 66776, 66777, 66783, 66784, 66785, 66786, 66787 | HEX-3 - HEX-4 - HEX-5 - HEX-6 - HEX-7 - HEX-8 - HEX-10 - HEX-4(L-B) - HEX-5(L-B) - HEX-6(L-B) - HEX-8(L-B) - HEX-10(L-B) |
| 66800 |                                                                                   | 9    | 350                                                                               |                                                                                   | 66788, 66789, 66790, 66791, 66792, 66793, 66794, 66795, 66796                      | T-10 - T-15 - T-20 - T-25 - T-27 - T-30 - T-40 - T-45 - T-50                                                             |





**ADAPTADOR / ADAPTER / ADAPTATEUR / VERBINDUNGSTEIL / ADATTATORE / REDUTOR / АДАПТЕР**

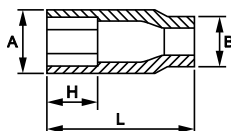
| COD.  |  |  |  |  |  |
|-------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 65884 | 3/8-1/4                                                                            |                                                                                    | 20                                                                                 | 6                                                                                  | ●                                                                                   |
| 65881 | 3/8-1/2                                                                            |                                                                                    | 45                                                                                 |                                                                                    |                                                                                     |







**ADAPTADOR CON RETÉN DE BOLA / BALL RETAINER ADAPTER / ADAPTATEUR AVEC BILLE DE RETENUE / ADAPTOR FÜR STECKSCHLÜSSEL / ADATTATORE CON BLOCCAGGIO / ADAPTADOR DE RETENÇÃO PARA CHAVES DE CAIXA / ПЕРЕХОДНИК-ФИКСАТОР 1/4»ПАПА НА 1/4»МАМА ДЛЯ ГОЛОВОК**


| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 65862 | 3/8"-1/4"                                                                           | 29     | 11     | 17     | 11     | 23                                                                                  | 6                                                                                   | ●                                                                                     |


**PUNTA ADAPTADORA PARA VASOS DE IMPACTO / ADAPTER BIT FOR IMPACT SOCKETS / EMBOUT ADAPTATEUR POUR DOUILLES À CHOC / ADAPTERBIT FÜR SCHLAGNÜSSE / INSERTO ADATTATORE PER BUSSOLE A MACCHINA / PONTA ADAPTADORA PARA CHAVES DE CAIXA DE IMPACTO / ПЕРЕХОДНИК ДЛЯ УДАРНЫХ БИТ**

| COD.  |  | L (mm) |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 61696 | 3/8"-1/4"                                                                           | 65     | 26                                                                                  | 6                                                                                    |


**LLAVES DE VASO PARA BUJÍAS / SPARK PLUG SOCKETS / DOUILLES POUR BOUGIES / ZÜNDKERZEN - STECKSCHLÜSSEL / CHIAVI PER CANDELE / CHAVES DE CAIXA PA VELAS / ГОЛОВКИ ДЛЯ СВЕЧЕЙ ЗАЖИГАНИЯ**


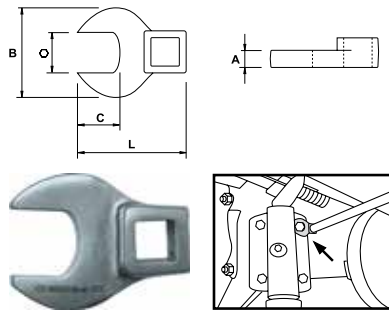
| COD.  |  |  | L (mm) | A (mm) | B (mm) | H (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 61460 | 16                                                                                  | 3/8                                                                                 | 65     | 22     | 19     | 17     | 100                                                                                 | 6                                                                                   | ●                                                                                     |
| 61461 | 21                                                                                  |                                                                                     |        | 28     | 22     | 20     | 150                                                                                 |                                                                                     |                                                                                       |



■ 3/8"

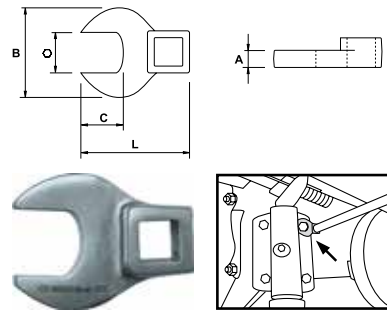
**LLAVE FIJA CROWFOOT / OPEN END CROWFOOT WRENCH / CLÉ À FOURCHE CROWFOOT / EINSTECK-MAULSCHLÜSSEL / CHIAVE FISSA CROWFOOT / PONTEIRA DE BOCA COM QUADRADO INTERIOR / РОЖКОВЫЙ КЛЮЧ С КВАДРАТОМ**

■ MM



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | g   |    |   |
|-------|-------|--------|--------|--------|--------|-----|----|---|
| 55710 | 10    | 36     | 6      | 24     | 10     | 28  |    |   |
| 55711 | 11    | 39     | 6,5    | 26     | 13     | 35  |    |   |
| 55712 | 12    | 40     | 7,2    | 28     | 14     | 40  |    |   |
| 55713 | 13    | 42     | 8,3    | 30     | 15     | 41  |    |   |
| 55714 | 14    | 46     | 8,4    | 34     | 17     | 50  |    |   |
| 55715 | 15    | 48     | 8,8    | 36     | 18     | 56  | 10 | ● |
| 55716 | 16    | 50     | 9      | 40     | 21     | 62  |    |   |
| 55717 | 17    | 55     | 9,5    | 46     | 22,5   | 80  |    |   |
| 55718 | 19    | 65     | 10     | 54     | 26,5   | 140 |    |   |
| 55719 | 21    |        |        |        | 23,5   | 100 |    |   |
| 55720 | 22    |        |        |        | 25,5   | 140 |    |   |
| 55721 | 24    |        |        |        | 26,5   | 200 |    |   |
| 55722 | 25    |        |        |        | 28,5   | 200 |    |   |
| 55723 | 27    |        |        |        |        |     |    |   |

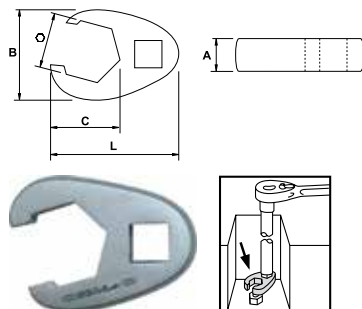
■ INCH



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | g   |    |   |
|-------|---------|--------|--------|--------|--------|-----|----|---|
| 55724 | 3/8     | 36     | 6      | 24     | 10     | 28  |    |   |
| 55725 | 7/16    | 39     | 6,5    | 26     | 13     | 35  |    |   |
| 55726 | 1/2     | 40     | 7,2    | 28     | 14     | 40  |    |   |
| 55727 | 9/16    | 42     | 8,3    | 30     | 15     | 41  |    |   |
| 55728 | 5/8     | 46     | 8,4    | 34     | 17     | 50  |    |   |
| 55729 | 11/16   | 48     | 8,8    | 36     | 18     | 56  | 10 | ● |
| 55730 | 3/4     | 50     | 9      | 40     | 21     | 62  |    |   |
| 55731 | 13/16   | 55     | 9,5    | 46     | 21,5   | 80  |    |   |
| 55732 | 7/8     | 65     | 10     | 54     | 22,5   | 100 |    |   |
| 55733 | 15/16   |        |        |        | 25,5   | 140 |    |   |
| 55734 | 1       |        |        |        | 26,5   | 200 |    |   |
| 55735 | 1.1/16  |        |        |        | 28,5   | 200 |    |   |

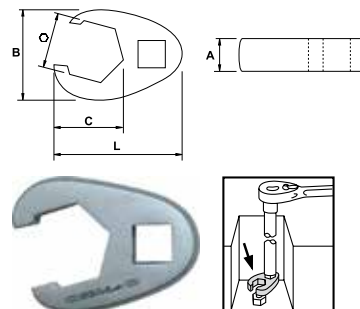
**LLAVE HEXAGONAL CROWFOOT / HEXAGONAL CROWFOOT WRENCH / CLÉ MÂLE CROWFOOT / SECHSKANT-EINSTECK-MAULSCHLÜSSEL / CHIAVE ESAGONALE CROWFOOT / PONTEIRA HEXAGONAL COM QUADRADO INTERIOR / РОЖКОВЫЙ ШЕСТИГРАННЫЙ КЛЮЧ С КВАДРАТОМ**

■ MM



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | g   |    |   |
|-------|-------|--------|--------|--------|--------|-----|----|---|
| 55736 | 10    |        | 7,8    |        | 16     | 28  |    |   |
| 55737 | 11    | 38     |        | 31     | 18     | 35  |    |   |
| 55738 | 12    |        | 8      |        | 21     | 40  |    |   |
| 55739 | 13    |        |        |        | 24     | 41  |    |   |
| 55740 | 14    |        |        |        | 27     | 50  |    |   |
| 55741 | 15    | 41     | 9      | 33     | 21     | 56  | 10 | ● |
| 55742 | 16    |        |        |        | 24     | 62  |    |   |
| 55743 | 17    | 45     | 10,5   | 36     | 25     | 80  |    |   |
| 55744 | 19    | 46     |        |        | 28,5   | 100 |    |   |
| 55745 | 21    | 50     | 11     | 40     | 34     | 140 |    |   |
| 55746 | 22    |        |        |        | 28,5   | 100 |    |   |
| 55747 | 24    |        |        |        | 34     | 200 |    |   |
| 55748 | 25    | 55     | 11,5   | 45     |        |     |    |   |
| 55749 | 27    |        |        |        |        |     |    |   |

■ INCH



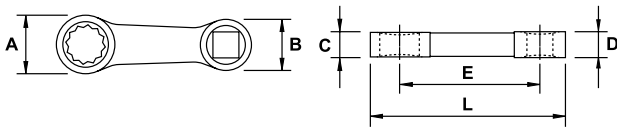
| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | g   |    |   |
|-------|---------|--------|--------|--------|--------|-----|----|---|
| 55750 | 3/8     |        | 7,8    |        | 16     | 28  |    |   |
| 55751 | 7/16    | 38     |        | 31     | 18     | 35  |    |   |
| 55752 | 1/2     |        | 8      |        | 21     | 40  |    |   |
| 55753 | 9/16    |        |        |        | 24     | 41  |    |   |
| 55754 | 5/8     | 41     | 9      | 33     | 21     | 50  |    |   |
| 55755 | 11/16   | 46     | 10,5   | 36     | 24     | 56  | 10 | ● |
| 55756 | 3/4     |        |        |        | 25     | 62  |    |   |
| 55757 | 13/16   | 45     |        |        | 28,5   | 80  |    |   |
| 55758 | 7/8     | 50     | 11     | 40     | 28,5   | 100 |    |   |
| 55759 | 15/16   | 55     | 11,5   | 45     | 34     | 140 |    |   |
| 55760 | 1       |        |        |        | 34     | 200 |    |   |
| 55761 | 1.1/16  |        |        |        |        | 200 |    |   |



■ 3/8"

■ **ADAPTADOR DE PAR / TORQUE ADAPTER / ADAPTATEUR DE COUPLE / DREHMOMENT ADAPTOR / ADATTATORE DI COPPIA / ADAPTADOR DE PAR / АДАПТЕР КРУТЯЩЕГО МОМЕНТА**

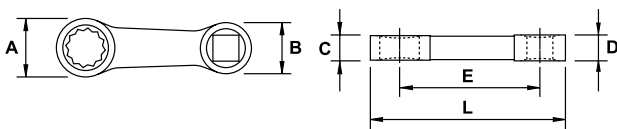
■ **MM**



| COD.  | AF mm | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g  | Icon 1 | Icon 2 |
|-------|-------|---------|--------|--------|--------|--------|--------|--------|----|--------|--------|
| 57315 | 8     |         |        | 20     | 19     | 9      | 12     | 50     | 50 |        |        |
| 57316 | 10    | 3/8     | 75     | 24     |        |        |        | 60     | 60 | 10     | ●      |
| 57317 | 13    |         |        |        |        | 12     |        |        |    |        |        |



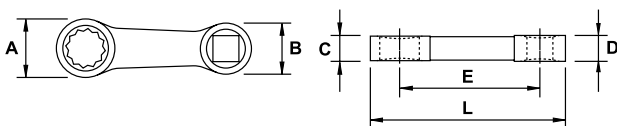
■ **INCH**



| COD.  | AF inch | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g  | Icon 1 | Icon 2 |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|----|--------|--------|
| 57318 | 5/16    |         |        | 20     | 19     | 9      | 12     | 50     | 50 |        |        |
| 57319 | 3/8     |         | 75     | 24     |        |        |        | 60     | 60 | 10     | ●      |
| 57320 | 7/16    | 3/8     |        |        |        |        |        |        |    |        |        |
| 57321 | 1/2     |         |        |        |        | 12     |        |        |    |        |        |
| 57322 | 9/16    |         |        |        |        |        |        |        |    |        |        |



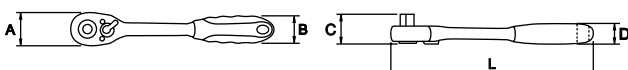
■ **SPLINE**



| COD.  | AF inch | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g  | Icon 1 | Icon 2 |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|----|--------|--------|
| 57323 | M7      | 7/32    |        |        |        |        |        |        |    |        |        |
| 57324 | M8      | 1/4     |        |        |        |        |        |        |    |        |        |
| 57325 | M9      | 9/32    |        | 20     | 19     | 9      | 12     | 50     | 50 |        |        |
| 57326 | M10     | 5/16    |        |        |        |        |        |        |    |        |        |
| 57327 | M12     | 3/8     | 3/8    | 75     |        |        |        | 60     | 60 | 10     | ●      |
| 57328 | M14     | 7/16    |        |        |        |        |        |        |    |        |        |
| 57329 | M16     | 1/2     |        |        |        |        |        |        |    |        |        |
| 57330 | M18     | 9/16    |        |        |        | 12     |        |        |    |        |        |
| 57331 | M20     | 5/8     |        |        |        |        |        |        |    |        |        |

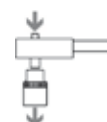


■ **LLAVE DE CARRACA REVERSIBLE / REVERSIBLE RATCHET HANDLE / CLÉ À CLIQUET RÉVERSIBLE / UMSCHALTKNARRE / CHIAVE A CRICCO REVERSIBILE / ROQUETE REVERSIVEL / РЕВЕРСИВНАЯ ТРЕЩЕТКА**

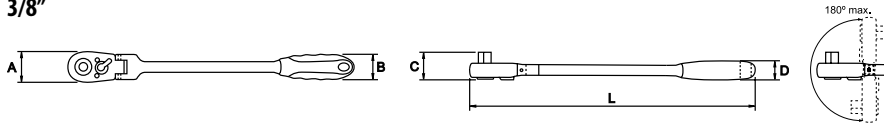


| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g | Icon 1 | Icon 2 |
|-------|---------|--------|--------|--------|--------|--------|--------|---|--------|--------|
| 62604 | 3/8     | 200    | 31     | 28     | 29     | 22     | 270    | 6 |        | ●      |

DIN 3122

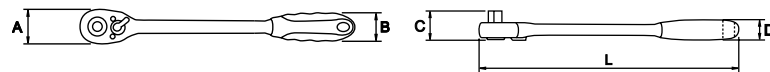


### ■ 3/8"



| COD.         | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   |   |   |
|--------------|---------|--------|--------|--------|--------|--------|-----|---|---|
| <b>57412</b> | 3/8     | 300    | 29     | 28     | 30     | 22     | 390 | 6 | ● |

DIN 3122



| COD.         | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   |   |   |
|--------------|---------|--------|--------|--------|--------|--------|-----|---|---|
| <b>57415</b> | 3/8     | 280    | 31     | 28     | 29     | 22     | 370 | 6 | ● |

DIN 3122



### ■ MANGO CORREDIZO EN "T" / SLIDING "T" HANDLE / POIGNÉE COULISSANTE / QUERGRIF / ASTA CON QUADRO SCORREVOLO / CABO "T" CORREDIÇO / ПОДВИЖНАЯ "Т" РУЧКА

| COD.         | AF inch | L (mm) | g   |   |   |
|--------------|---------|--------|-----|---|---|
| <b>61439</b> | 3/8     | 165    | 180 | 5 | ● |

DIN 3122



### ■ ARTICULACIÓN UNIVERSAL / UNIVERSAL JOINT / CARDAN UNIVERSEL / KARDANGELNENK / SNODO CARDANICO / CARDAN UNIVERSAL / ШАРНИР

| COD.         | AF inch | g  |    |   |
|--------------|---------|----|----|---|
| <b>61436</b> | 3/8     | 80 | 10 | ● |

DIN 3123



### ■ ALARGADERA / EXTENSION / RALLONGE / VERLÄNGERUNG / PROLUNGA / EXTENÇÃO / УДЛИНИТЕЛЬ

| COD.         | AF inch | L (inch) | g   |   |   |
|--------------|---------|----------|-----|---|---|
| <b>62732</b> | 3/8     | 2        | 50  | 5 | ● |
| <b>61459</b> |         | 3        | 65  |   |   |
| <b>61447</b> |         | 6        | 120 |   |   |
| <b>61449</b> |         | 8        | 175 |   |   |
| <b>61450</b> |         | 10       | 240 |   |   |
| <b>59095</b> |         | 14       | 340 |   |   |
| <b>59096</b> |         | 24       | 600 |   |   |
| <b>59097</b> |         | 36       | 850 |   |   |

DIN 3123



### ■ ALARGADERA FLEXIBLE / FLEXIBLE HANDLE / RALLONGE FLEXIBLE / GELENK-STECKGRIF / PROLUNGA FLESSIBILE / EXTENSÃO FLEXÍVEL / ГИБКАЯ РУКОЯТКА

| COD.         | AF inch | L (inch) | g   |   |
|--------------|---------|----------|-----|---|
| <b>62118</b> | 3/8     | 8        | 180 | 5 |

DIN 3122



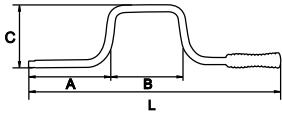
### ■ ALARGADERA ANGULAR / WOBBLE DRIVE EXTENSION / RALLONGE ANGULAIRE / WACKELANTRIEBSERWEITERUNG / PROLUNGA ANGOLARE / EXTENSÃO ANGULAR / УГЛОВОЙ УДЛИНИТЕЛЬ

| COD.         | AF inch | L (inch) | g   |   |
|--------------|---------|----------|-----|---|
| <b>59101</b> | 3/8     | 3        | 75  | 5 |
| <b>59102</b> |         | 5        | 120 |   |
| <b>59103</b> |         | 10       | 230 |   |



■ 3/8"

■ BERBIQUÍ / SPEEDER HANDLE / VILEBREQUIN / KURBEL / LEVA GIROBECCHINO / MANIVELA / КОЛЕНЧАТАЯ РУЧКА



| COD.  | AF<br>inch | L (mm) | A (mm) | B (mm) | C (mm) | g   |   |
|-------|------------|--------|--------|--------|--------|-----|---|
| 61409 | 3/8        | 425    | 130    | 140    | 115    | 570 | 5 |

DIN 3122



■ MANGO ARTICULADO / SWIVEL HANDLE / MANCHE ARTICULÉ / GELENKGRIF / IMPUGNATURA SNODABILE / CABO ARTICULADO / РУЧКА С ШАРНИРОМ

| COD.  | AF<br>inch | L (mm) | g   |   |   |
|-------|------------|--------|-----|---|---|
| 65875 | 3/8        | 214    | 375 | 5 | ● |

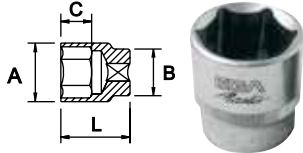


■ ADAPTADOR PLANO / FLAT ADAPTOR / ADAPTATEUR PLAT / FLACHADAPTER / ADATTATORE PIATTO / ADAPTADOR PLANO / ПЛОСКИЙ ПЕРЕХОДНИК

| COD.  | IN (inch) | OUT (inch) | L (mm) | Ø 1 (mm) | g  |
|-------|-----------|------------|--------|----------|----|
| 59122 | 3/8       | 1/2        | 16     | 38       | 30 |



- 1/2"
- STANDARD
- MM
- 6 PT. - 1/2"



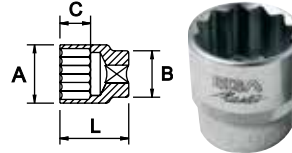
| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   | Icon 1 | Icon 2 |
|-------|-------|--------|--------|--------|--------|----|-----|--------|--------|
| 61800 | 8     |        | 13     |        |        |    | 48  |        |        |
| 61801 | 9     |        | 14     |        | 13     |    | 49  |        |        |
| 61802 | 10    |        | 15     |        |        |    | 50  |        | 25     |
| 61803 | 11    |        | 17     |        |        |    | 55  |        |        |
| 61804 | 12    |        | 18     | 22     |        |    | 60  |        |        |
| 61805 | 13    |        | 19     |        |        |    | 65  |        | 20     |
| 61806 | 14    |        | 20     |        |        |    | 75  |        |        |
| 61807 | 15    | 38     | 22     |        | 14     |    | 80  |        | 15     |
| 61808 | 16    |        | 22     |        |        |    | 110 |        |        |
| 61809 | 17    |        | 24     |        |        |    | 115 |        | 10     |
| 61810 | 18    |        | 26     | 23     |        |    | 130 |        |        |
| 61811 | 19    |        | 26     | 23     |        | 6  | 165 |        | 8      |
| 61812 | 20    |        | 28     | 24     | 15     |    | 210 |        | 7      |
| 61813 | 21    |        | 28     | 24     |        |    | 250 |        | 7      |
| 61814 | 22    |        | 30     |        |        |    | 250 |        | 7      |
| 61815 | 23    |        | 32     | 26     | 16     |    | 335 |        | 7      |
| 61816 | 24    | 40     | 32     | 26     |        |    |     |        |        |
| 61817 | 25    |        | 34     | 28     | 18     |    |     |        |        |
| 61818 | 26    | 41     | 34     | 28     |        |    |     |        |        |
| 61819 | 27    | 42     | 36     | 30     |        |    |     |        |        |
| 61820 | 28    |        | 38     |        | 20     |    |     |        |        |
| 61821 | 29    | 44     | 40     | 32     | 21     |    |     |        |        |
| 61822 | 30    |        | 40     |        | 22     |    |     |        |        |
| 61823 | 32    | 45     | 42     | 38     | 26     |    |     |        |        |

● | DIN 3124

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

- 12 PT. - 1/2"



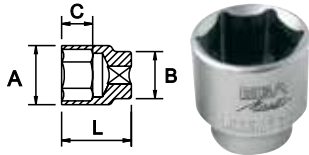
| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   | Icon 1 | Icon 2 |
|-------|-------|--------|--------|--------|--------|----|-----|--------|--------|
| 61380 | 8     |        | 13     |        |        |    | 48  |        |        |
| 61381 | 9     |        | 14     |        | 13     |    | 49  |        |        |
| 61382 | 10    |        | 15     |        |        |    | 50  |        | 25     |
| 61383 | 11    |        | 17     |        |        |    | 55  |        |        |
| 61384 | 12    |        | 18     | 22     |        |    | 60  |        |        |
| 61385 | 13    |        | 19     |        |        |    | 65  |        | 20     |
| 61386 | 14    |        | 20     |        |        |    | 75  |        |        |
| 61387 | 15    | 38     | 22     |        | 14     |    | 80  |        | 15     |
| 61388 | 16    |        | 22     |        |        |    | 110 |        |        |
| 61389 | 17    |        | 24     |        |        |    | 115 |        | 10     |
| 61390 | 18    |        | 26     | 23     |        |    | 130 |        |        |
| 61391 | 19    |        | 26     | 23     |        |    | 165 |        | 8      |
| 61392 | 20    |        | 28     | 24     | 15     | 12 | 210 |        | 7      |
| 61393 | 21    |        | 28     | 24     |        |    | 250 |        | 7      |
| 61394 | 22    |        | 30     |        |        |    | 250 |        | 7      |
| 61395 | 23    |        | 32     | 26     | 16     |    | 335 |        | 7      |
| 61396 | 24    | 40     | 32     | 26     |        |    |     |        |        |
| 61397 | 25    |        | 34     | 28     | 18     |    |     |        |        |
| 61398 | 26    | 41     | 34     | 28     |        |    |     |        |        |
| 61399 | 27    | 42     | 36     | 30     |        |    |     |        |        |
| 61400 | 28    |        | 38     |        | 20     |    |     |        |        |
| 61401 | 29    | 44     | 40     | 32     | 21     |    |     |        |        |
| 61402 | 30    |        | 40     |        | 22     |    |     |        |        |
| 61403 | 32    | 45     | 42     | 38     | 26     |    |     |        |        |
| 59994 | 34    |        | 44     |        | 22     |    |     |        |        |
| 59995 | 36    | 46     | 48     | 42     |        |    |     |        |        |

● | DIN 3124

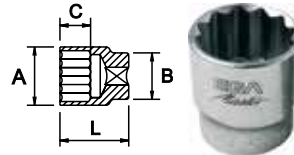
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

- 1/2"
- STANDARD
- INCH
- 6 PT. - 1/2"



- 12 PT. - 1/2"



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   | Icon 1 | Icon 2 |
|-------|---------|--------|--------|--------|--------|----|-----|--------|--------|
| 60460 | 5/16    |        | 13     |        |        |    | 46  |        |        |
| 60461 | 3/8     |        | 15     |        | 13     |    | 49  |        |        |
| 60462 | 7/16    |        | 17     |        |        |    | 50  |        |        |
| 60463 | 1/2     |        | 19     |        |        |    | 25  |        |        |
| 60464 | 9/16    |        | 20     | 22     |        |    | 55  |        |        |
| 60465 | 19/32   |        | 22     |        | 14     |    |     |        |        |
| 60466 | 5/8     | 38     |        |        |        |    |     |        |        |
| 60459 | 21/32   |        | 24     |        |        |    | 65  |        |        |
| 60467 | 11/16   |        | 24     |        |        |    | 70  | 20     |        |
| 60468 | 3/4     |        | 26     | 23     |        | 6  | 80  |        | ●      |
| 60469 | 25/32   | x      | 28     | 24     |        |    | 85  | 15     |        |
| 60470 | 13/16   |        | 30     | 25     |        |    | 95  |        |        |
| 60471 | 7/8     |        | 32     | 26     | 18     |    | 125 |        |        |
| 60472 | 15/16   |        | 33     | 28     |        |    | 135 | 10     |        |
| 60473 | 31/32   | 40     | 34     |        |        |    | 185 |        |        |
| 60474 | 1       |        | 36     |        |        |    | 8   |        |        |
| 60475 | 1.1/16  | 42     | 38     | 32     | 19     |    |     |        |        |
| 60476 | 1.1/8   |        | 40     |        | 22     |    |     |        |        |
| 60477 | 1.3/16  | 44     | 42     | 34     | 23     |    | 210 | 7      |        |
| 60478 | 1.1/4   |        |        |        |        |    |     |        |        |

● | DIN 3124

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   | Icon 1 | Icon 2 |
|-------|---------|--------|--------|--------|--------|----|-----|--------|--------|
| 60480 | 5/16    |        | 13     |        |        |    | 46  |        |        |
| 60481 | 3/8     |        | 15     |        | 13     |    | 49  |        |        |
| 60482 | 7/16    |        | 17     |        |        |    | 50  |        |        |
| 60483 | 1/2     |        | 19     |        |        |    | 25  |        |        |
| 60484 | 9/16    |        | 20     | 22     |        |    | 55  |        |        |
| 60485 | 19/32   |        | 22     |        | 14     |    |     |        |        |
| 60486 | 5/8     | 38     |        |        |        |    |     |        |        |
| 60479 | 21/32   |        | 24     |        |        |    | 65  |        |        |
| 60487 | 11/16   |        | 24     |        |        |    | 70  | 20     |        |
| 60488 | 3/4     |        | 26     | 23     |        | 12 | 80  |        | ●      |
| 60489 | 25/32   | x      | 28     | 24     |        |    | 85  | 15     |        |
| 60490 | 13/16   |        | 30     | 25     |        |    | 95  |        |        |
| 60491 | 7/8     |        | 32     | 26     | 18     |    | 125 |        |        |
| 60492 | 15/16   |        | 33     | 28     |        |    | 135 | 10     |        |
| 60493 | 31/32   | 40     | 34     |        |        |    | 185 |        |        |
| 60494 | 1       |        | 36     |        |        |    | 8   |        |        |
| 60495 | 1.1/16  | 42     | 38     | 32     | 19     |    |     |        |        |
| 60496 | 1.1/8   |        | 40     |        | 22     |    |     |        |        |
| 60497 | 1.3/16  | 44     | 42     | 34     | 23     |    | 210 | 7      |        |
| 60498 | 1.1/4   |        |        |        |        |    |     |        |        |

● | DIN 3124

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

# BE SAFE...BE EFFICIENT

x 50% cromado aeroespacial - 50% cromado pulido espejo / 50% aerospace chrome plating - 50% mirror polished chrome plating / 50% chromée aérospatiale - 50% polie chromée

Si no encuentra el artículo que necesita, consúltenos en [consulta@egamaster.com](mailto:consulta@egamaster.com) o en [www.egamaster.com](http://www.egamaster.com)  
 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
 Si vous ne trouvez pas l'article que vous desirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)

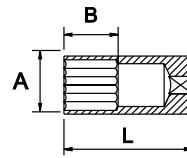
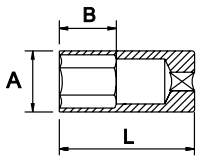
■ 1/2"

■ SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

■ MM

■ 6 PT. - 1/2"

■ 12 PT. - 1/2"



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | Pt | g   | Icon 1 | Icon 2 |
|-------|-------|--------|--------|--------|----|-----|--------|--------|
| 65044 | 10    |        | 16     |        |    | 110 |        |        |
| 65045 | 11    |        | 17     |        |    |     |        |        |
| 65046 | 12    |        | 18     |        |    |     |        |        |
| 65047 | 13    |        | 19     | 22     |    | 115 |        |        |
| 65048 | 14    |        | 21     |        |    |     |        |        |
| 65049 | 15    |        | 22     |        |    | 125 |        |        |
| 65050 | 16    |        | 24     | 26     |    |     |        |        |
| 65051 | 17    |        | 24     |        |    | 130 |        |        |
| 65052 | 18    |        | 26     |        |    | 150 |        |        |
| 65053 | 19    |        | 26     |        |    | 165 |        |        |
| 65054 | x 21  | 75     | 28     |        | 6  | 180 | 10     | •      |
| 65055 | 22    |        | 30     |        |    | 210 |        |        |
| 65056 | 23    |        | 32     |        |    | 240 |        |        |
| 65057 | 24    |        | 32     | 32     |    | 260 |        |        |
| 67770 | 26    |        | 36     |        |    | 330 |        |        |
| 67771 | 27    |        | 36     |        |    | 350 |        |        |
| 67772 | 28    |        | 38     |        |    | 380 |        |        |
| 67773 | 29    |        | 38     |        |    | 380 |        |        |
| 67774 | 30    |        | 40     |        |    | 420 |        |        |
| 67775 | 32    |        | 42     |        |    | 460 |        |        |

○ I DIN 3124

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

| COD.  | AF mm | L (mm) | A (mm) | B (mm) | Pt | g   | Icon 1 | Icon 2 |
|-------|-------|--------|--------|--------|----|-----|--------|--------|
| 67780 | 10    |        | 16     |        |    | 110 |        |        |
| 67781 | 11    |        | 17     |        |    |     |        |        |
| 67782 | 12    |        | 18     |        |    |     |        |        |
| 67783 | 13    |        | 19     | 22     |    | 115 |        |        |
| 67784 | 14    |        | 21     |        |    |     |        |        |
| 67785 | 15    |        | 22     |        |    | 125 |        |        |
| 67786 | 16    |        | 24     | 26     |    |     |        |        |
| 67787 | 17    |        | 24     |        |    | 130 |        |        |
| 67788 | 18    |        | 26     |        |    | 150 |        |        |
| 67789 | 19    |        | 26     |        |    | 165 |        |        |
| 59996 | x 20  | 75     | 28     |        | 12 | 170 | 10     | •      |
| 67791 | x 21  | 75     | 28     |        | 12 | 180 | 10     | •      |
| 67792 | 22    |        | 30     |        |    | 210 |        |        |
| 67793 | 23    |        | 32     |        |    | 240 |        |        |
| 67794 | 24    |        | 32     | 32     |    | 260 |        |        |
| 59997 | 25    |        | 34     |        |    | 250 |        |        |
| 67795 | 26    |        | 36     |        |    | 330 |        |        |
| 67796 | 27    |        | 36     |        |    | 350 |        |        |
| 67797 | 28    |        | 38     |        |    | 380 |        |        |
| 67798 | 29    |        | 38     |        |    | 380 |        |        |
| 67799 | 30    |        | 40     |        |    | 420 |        |        |
| 67800 | 32    |        | 42     |        |    | 460 |        |        |

○ I DIN 3124

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

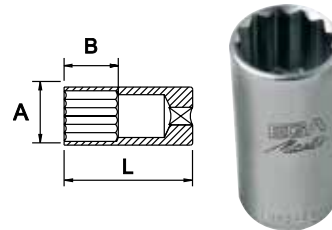
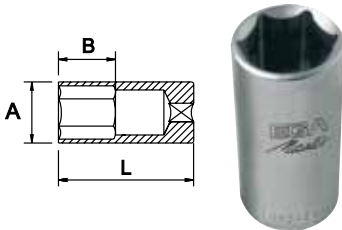
■ 1/2"

■ SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

■ INCH

■ 6 PT. - 1/2"

■ 12 PT. - 1/2"



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | Pt | g  | Icon 1 | Icon 2 | Icon 3 |
|-------|---------|--------|--------|--------|----|----|--------|--------|--------|
| 65064 | 3/8     | 15     | 24     | 105    |    |    |        |        |        |
| 65065 | 7/16    | 17     | 24     | 115    |    |    |        |        |        |
| 65066 | 1/2     | 19     | 27     |        |    |    |        |        |        |
| 65067 | 9/16    | 21     |        | 120    |    |    |        |        |        |
| 65068 | 5/8     | 22     |        |        |    |    |        |        |        |
| 65069 | 11/16   | 24     | 34     | 125    | 6  | 10 | •      |        |        |
| 65070 | 3/4     | 26     | 34     | 150    |    |    |        |        |        |
| 65071 | 13/16   | 27     |        | 170    |    |    |        |        |        |
| 65072 | 7/8     | 30     |        | 210    |    |    |        |        |        |
| 65073 | 15/16   | 32     |        | 250    |    |    |        |        |        |

○ I DIN 3124

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

| COD.  | AF inch | L (mm) | A (mm) | B (mm) | Pt | g  | Icon 1 | Icon 2 | Icon 3 |
|-------|---------|--------|--------|--------|----|----|--------|--------|--------|
| 67805 | 3/8     | 15     | 24     | 105    |    |    |        |        |        |
| 67806 | 7/16    | 17     | 24     | 115    |    |    |        |        |        |
| 67807 | 1/2     | 19     | 27     |        |    |    |        |        |        |
| 67808 | 9/16    | 21     |        | 120    |    |    |        |        |        |
| 67809 | 5/8     | 22     |        |        |    |    |        |        |        |
| 67810 | 11/16   | 24     |        | 125    |    |    |        |        |        |
| 67811 | 3/4     | 26     | 34     | 150    | 12 | 10 | •      |        |        |
| 67812 | 13/16   | 27     |        | 170    |    |    |        |        |        |
| 67813 | 7/8     | 30     | 34     | 210    |    |    |        |        |        |
| 67814 | 15/16   | 32     |        | 250    |    |    |        |        |        |
| 67815 | 1       | 34     |        | 280    |    |    |        |        |        |
| 67816 | 1.1/16  | 36     |        | 330    |    |    |        |        |        |
| 67817 | 1.1/8   | 38     |        | 370    |    |    |        |        |        |
| 67818 | 1.1/4   |        |        | 455    |    |    |        |        |        |

○ I DIN 3124

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

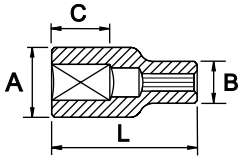
# EGGA Master

## ART IN INNOVATION

y 100% cromado pulido espejo / 100% mirror polished chrome plating / 100% polie chromée

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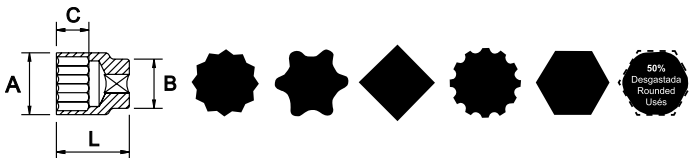
■ 1/2"  
 ■ TORX®\*



| COD.  |     | L (mm) | A (mm) | B (mm) | C (mm) |     |    |   |
|-------|-----|--------|--------|--------|--------|-----|----|---|
| 57179 | E10 |        | 15     |        | 10     | 55  |    |   |
| 57180 | E11 |        | 17     |        | 11     | 57  |    |   |
| 57181 | E12 |        | 18     |        |        | 62  |    |   |
| 57182 | E14 |        | 20     | 22     | 13     | 67  |    |   |
| 57183 | E16 | 38     | 21     |        |        | 73  | 10 | ● |
| 57184 | E18 |        | 24     |        |        |     |    |   |
| 57185 | E20 |        |        |        | 14     | 80  |    |   |
| 57186 | E22 |        | 26     | 23     |        |     |    |   |
| 57187 | E24 |        | 28     | 25     |        | 102 |    |   |



■ SPLINE



| COD.  |       |    |        |     | L (mm) | A (mm) | B (mm) | C (mm) |     |    |   |
|-------|-------|----|--------|-----|--------|--------|--------|--------|-----|----|---|
| 55795 | M12   | 10 | -      |     |        |        |        |        | 47  |    |   |
| 55811 | -     | -  | 3/8    | -   |        | 15,5   |        |        |     |    |   |
| 55796 | M14   | 11 | 7/16   | E14 |        | 17     |        |        | 48  |    |   |
| 55797 | M15   | 12 | -      | E16 |        | 18     |        |        |     |    |   |
| 55798 | M16   | 13 | 1/2    | -   |        | 19     | 22     | 14     | 50  | 25 |   |
| 55799 | M18   | 14 | 9/16   | E18 |        | 21     |        |        |     |    |   |
| 55800 | -     | 15 | -      | -   |        |        |        |        |     |    |   |
| 55801 | M20   | 16 | 5/8    | E20 | 38     | 24     |        |        | 65  |    |   |
| 55802 | -     | 17 | -      | -   |        |        |        |        | 60  |    |   |
| 55803 | y M22 | 18 | -      | E22 |        |        |        |        | 75  | 20 | ● |
| 55804 | M24   | 19 | 3/4    | E24 |        | 26     | 23     |        | 60  |    |   |
| 55805 | M25   | 20 | -      | -   |        | 28     | 24     |        | 80  | 15 |   |
| 55806 | M26   | 21 | 13/16  | -   |        |        |        | 17     | 70  |    |   |
| 55807 | M28   | 22 | 7/8    | -   |        | 30     | 26     |        | 85  |    |   |
| 55808 | M30   | 24 | 15/16  | -   |        | 32     |        |        | 95  |    |   |
| 55833 | -     | -  | 1      | -   | 40     | 34     | 28     | 19     | 115 | 10 |   |
| 55809 | M34   | 27 | 1.1/16 | -   | 42     | 36     |        |        | 140 |    |   |
| 55834 | -     | -  | 1.1/8  | -   | 43     | 38     | 32     | 20     | 155 | 8  |   |
| 55810 | M38   | 30 | 1.3/16 | -   | 44     | 40     | 35     | 22     | 180 |    |   |



DIN 3120

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

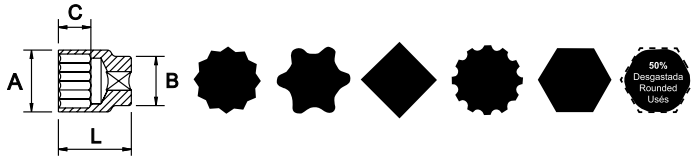
\*Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)





y 100% cromado pulido espejo / 100% mirror polished chrome plating / 100% polie chromée



## ■ 1/2"

**EXTRACTOR DE TUERCAS DESGASTADAS HASTA EL 50% / SCREW EXTRACTOR FOR 50% ROUNDED OFF NUTS / EXTRACTEUR D'ÉCROUS USÉS JUSQU'À 50% / AUSZIEHER 50% ABGENUTZTE MUTTER / ESTRATTORE PER DADI SPANATI FINO AL 50% / EXTRACTOR DE PORCAS DESGASTADAS ATÉ 50% / СЪЕМНИК ДЛЯ СВЕРНУТЫХ НА 50% ГАЕЕК**



| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 55795 | 10                                                                                |        | 15,5   |        |        | 47                                                                                |                                                                                   |                                                                                     |
| 55796 | 11                                                                                |        | 17     |        |        | 48                                                                                |                                                                                   |                                                                                     |
| 55797 | 12                                                                                |        | 18     |        |        |                                                                                   |                                                                                   |                                                                                     |
| 55798 | 13                                                                                |        | 19     |        |        |                                                                                   | 25                                                                                |                                                                                     |
| 55799 | 14                                                                                |        | 21     |        | 14     | 50                                                                                |                                                                                   |                                                                                     |
| 55800 | 15                                                                                |        |        |        |        |                                                                                   |                                                                                   |                                                                                     |
| 55801 | 16                                                                                |        | 24     |        |        | 65                                                                                |                                                                                   |                                                                                     |
| 55802 | 17                                                                                | 38     |        |        |        | 60                                                                                |                                                                                   |                                                                                     |
| 55803 | 18                                                                                |        | 26     | 23     |        | 75                                                                                | 20                                                                                | ●                                                                                   |
| 55804 | 19                                                                                |        |        |        |        | 60                                                                                |                                                                                   |                                                                                     |
| 55805 | 20                                                                                |        | 28     | 24     |        | 80                                                                                |                                                                                   |                                                                                     |
| 55806 | 21                                                                                |        | 30     | 26     | 17     | 70                                                                                | 15                                                                                |                                                                                     |
| 55807 | 22                                                                                |        |        |        |        | 85                                                                                |                                                                                   |                                                                                     |
| 55808 | 24                                                                                |        | 32     | 28     |        | 95                                                                                | 10                                                                                |                                                                                     |
| 55809 | 27                                                                                | 42     | 36     | 32     | 20     | 140                                                                               | 8                                                                                 |                                                                                     |
| 55810 | 30                                                                                | 44     | 40     | 35     | 22     | 180                                                                               |                                                                                   |                                                                                     |







DIN 3120

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V





**PUNTAS ATORNILLADORAS CON VASO / SOCKET BITS / EMBOUTS DE VISSAGE AVEC DOUILLE / STECKSCHLÜSSELEINSATZ / INSERTI A BUSSOLA / PONTAS APARAFUSADORAS COM CAIXA / ГОЛОВКИ-БИТЫ**

## ■ PLANA / FLAT / À FENTE / FLACH / PIATTA / PLANA / ПЛОСКАЯ

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66801 | 1,2 x 8                                                                             |        |                                                                                     |                                                                                     |                                                                                       |
| 66802 | 1,6 x 10                                                                            | 62     | 75                                                                                  | 10                                                                                  | ●                                                                                     |
| 66803 | 2 x 12                                                                              |        |                                                                                     |                                                                                     |                                                                                       |







## ■ PLANA SERIE LARGA / SLOTTED LONG / À FENTE SÉRIE LONGUE / LANG GESCHLITZT / PIATTA SERIE LUNGA / FENDA SÉRIE LONGA / ПЛОСКАЯ ВЫСОКАЯ СЕРИЯ

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53127 | 1,2 x 8                                                                             |        | 100                                                                                 | 10                                                                                  |                                                                                       |
| 53128 | 1,6 x 10                                                                            | 100    |                                                                                     |                                                                                     | ●                                                                                     |
| 53129 | 2,0 x 12                                                                            |        | 125                                                                                 |                                                                                     |                                                                                       |



## ■ PHILLIPS®\*

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53105 | PH-1                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 66804 | PH-2                                                                                | 56     | 70                                                                                  | 10                                                                                  | ●                                                                                     |
| 66805 | PH-3                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 66806 | PH-4                                                                                |        |                                                                                     |                                                                                     |                                                                                       |




y 100% cromado pulido espejo / 100% mirror polished chrome plating / 100% polie chromée

• \*Para tornillos PHILLIPS® (Marca registrada por Phillips Screw Company) / \*For screws PHILLIPS® (Phillips Screw Company registered trademark) / \*Pour vis PHILLIPS® (Marque enregistrée par Phillips Screw Company)





## ■ 1/2"

**PHILLIPS® SERIE LARGA / PHILLIPS® LONG / PHILLIPS® SÉRIE LONGUE / PHILLIPS® LANGE SERIE / PHILLIPS® SERIE LUNGA / PHILLIPS® SÉRIE LONGA / PHILLIPS® ВЫСОКАЯ СЕРИЯ**




| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53131 | PH-1                                                                              | 100    | 100                                                                               | 10                                                                                | ●                                                                                   |
| 53132 | PH-2                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 53133 | PH-3                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 53134 | PH-4                                                                              |        |                                                                                   |                                                                                   |                                                                                     |



## ■ POZIDRIV®

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53107 | PZ-1                                                                              | 55     | 70                                                                                | 10                                                                                | ●                                                                                   |
| 53108 | PZ-2                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 53109 | PZ-3                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 53110 | PZ-4                                                                              |        |                                                                                   |                                                                                   |                                                                                     |






**POZIDRIV® SERIE LARGA / POZIDRIV® LONG / POZIDRIV® SÉRIE LONGUE / POZIDRIV® LANGE SERIE / POZIDRIV® SERIE LUNGA / POZIDRIV® SÉRIE LONGA / POZIDRIV® ВЫСОКАЯ СЕРИЯ**

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53136 | PZ-1                                                                              | 100    | 100                                                                               | 10                                                                                | ●                                                                                   |
| 53137 | PZ-2                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 53138 | PZ-3                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 53139 | PZ-4                                                                              |        |                                                                                   |                                                                                   |                                                                                     |







## ■ HEXAGONAL / HEXAGONAL / HEXAGONALE / HEXAGONAL / ESAGONALE / HEXAGONAL / ШЕСТИГРАННАЯ

## ■ MM

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66807 | 4                                                                                   | 55     | 75                                                                                  | 10                                                                                  | ●                                                                                     |
| 66808 | 5                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |
| 55704 | 5,5                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |
| 66809 | 6                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |
| 66810 | 7                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |
| 66811 | 8                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |
| 67213 | 9                                                                                   |        |                                                                                     |                                                                                     |                                                                                       |
| 55705 | 9,5                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |
| 66812 | 10                                                                                  |        |                                                                                     |                                                                                     |                                                                                       |
| 67214 | 11                                                                                  |        |                                                                                     |                                                                                     |                                                                                       |
| 66813 | 12                                                                                  |        |                                                                                     |                                                                                     |                                                                                       |
| 55706 | 13                                                                                  |        |                                                                                     |                                                                                     |                                                                                       |
| 66814 | 14                                                                                  |        |                                                                                     |                                                                                     |                                                                                       |
| 55708 | 17                                                                                  |        |                                                                                     |                                                                                     |                                                                                       |
| 55707 | 19                                                                                  |        |                                                                                     |                                                                                     |                                                                                       |



## ■ INCH

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 55688 | 7/32                                                                                | 55     | 75                                                                                  | 10                                                                                  | ●                                                                                     |
| 55689 | 1/4                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |
| 55690 | 5/16                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 55691 | 3/8                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |
| 55692 | 7/16                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 55693 | 1/2                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |
| 55695 | 5/8                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |
| 55696 | 3/4                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |







• \*Para tornillos PHILLIPS® (Marca registrada por Phillips Screw Company) / \*For screws PHILLIPS® (Phillips Screw Company registered trademark) / \*Pour vis PHILLIPS® (Marque enregistrée par Phillips Screw Company)

• \*Para tornillos POZIDRIV® (Marca registrada por European Ind. Serv. Ltd.) / \*For screws POZIDRIV® (European Ind. Serv. Ltd. registered trademark) / \*Pour vis POZIDRIV® (Marque enregistrée par European Ind. Serv. Ltd.)

## ■ 1/2"





HEXAGONAL SERIE LARGA / HEXAGONAL LONG / HEXAGONALE SÉRIE LONGUE / HEXAGONAL LANG / ESAGONALE SERIE LUNGA / HEXAGONAL SÉRIE LONGA / ШЕСТИГРАННАЯ  
ВЫСОКАЯ СЕРИЯ

## ■ MM

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66815 | 5                                                                                 | 100    | 75                                                                                | 10                                                                                | ●                                                                                   |
| 66816 | 6                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |
| 66817 | 7                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |
| 66818 | 8                                                                                 |        |                                                                                   |                                                                                   |                                                                                     |
| 66819 | 10                                                                                |        |                                                                                   |                                                                                   |                                                                                     |
| 66842 | 14                                                                                |        |                                                                                   |                                                                                   |                                                                                     |







## ■ INCH

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 56985 | 7/32                                                                              | 100    | 90                                                                                | 10                                                                                | ●                                                                                   |
| 56986 | 1/4                                                                               |        | 95                                                                                |                                                                                   |                                                                                     |
| 56987 | 5/16                                                                              |        | 100                                                                               |                                                                                   |                                                                                     |
| 56988 | 3/8                                                                               |        | 110                                                                               |                                                                                   |                                                                                     |
| 56989 | 7/16                                                                              |        | 115                                                                               |                                                                                   |                                                                                     |
| 56990 | 1/2                                                                               |        | 170                                                                               |                                                                                   |                                                                                     |
| 56991 | 9/16                                                                              |        | 235                                                                               |                                                                                   |                                                                                     |
| 56992 | 5/8                                                                               |        | 350                                                                               |                                                                                   |                                                                                     |
| 56993 | 3/4                                                                               |        |                                                                                   |                                                                                   |                                                                                     |







## ■ XZN

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66820 | M-5                                                                                 | 55     | 75                                                                                  | 10                                                                                  | ●                                                                                     |
| 66821 | M-6                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |
| 66822 | M-8                                                                                 |        |                                                                                     |                                                                                     |                                                                                       |
| 66823 | M-10                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 66824 | M-12                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 66825 | M-14                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 56896 | M-16                                                                                |        |                                                                                     |                                                                                     |                                                                                       |







## ■ XZN SERIE LARGA / XZN LONG / XZN SÉRIE LONGUE / XZN LANG / XZN SERIE LUNGO / XZN SÉRIE LONGA / XZN ДЛИННАЯ

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66826 | M-6                                                                                 | 100    | 100                                                                                 | 10                                                                                  | ●                                                                                     |
| 66827 | M-8                                                                                 |        | 120                                                                                 |                                                                                     |                                                                                       |
| 66828 | M-10                                                                                |        | 160                                                                                 |                                                                                     |                                                                                       |
| 66829 | M-12                                                                                |        | 165                                                                                 |                                                                                     |                                                                                       |
| 56897 | M-14                                                                                |        |                                                                                     |                                                                                     |                                                                                       |







## ■ TORX®\*

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66830 | T-20                                                                                | 55     | 80                                                                                  | 10                                                                                  | ●                                                                                     |
| 66831 | T-25                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 66832 | T-27                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 66833 | T-30                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 53112 | T-35                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 66834 | T-40                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 66835 | T-45                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 66836 | T-50                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 66837 | T-55                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 56895 | T-60                                                                                |        |                                                                                     |                                                                                     |                                                                                       |







\*Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)





## 1/2"

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53113 | T-70                                                                              | 55     | 80                                                                                | 10                                                                                | ●                                                                                   |





**TORX® SERIE LARGA / TORX® LONG / TORX® SÉRIE LONGUE / TORX® LANGE SERIE / TORX® SERIE LUNGA / TORX® SÉRIE LONGA / TORX® ВЫСОКАЯ СЕРИЯ**

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53141 | T-20                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 53142 | T-25                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 53143 | T-27                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 53144 | T-30                                                                              |        | 100                                                                               |                                                                                   |                                                                                     |
| 53145 | T-35                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 66838 | T-40                                                                              | 100    |                                                                                   | 10                                                                                | ●                                                                                   |
| 66839 | T-45                                                                              |        |                                                                                   |                                                                                   |                                                                                     |
| 66840 | T-50                                                                              |        | 110                                                                               |                                                                                   |                                                                                     |
| 66841 | T-55                                                                              |        | 125                                                                               |                                                                                   |                                                                                     |
| 53146 | T-60                                                                              |        | 165                                                                               |                                                                                   |                                                                                     |
| 53147 | T-70                                                                              |        |                                                                                   |                                                                                   |                                                                                     |






**TAMPER TORX**

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53115 | TT-20                                                                             |        |                                                                                   |                                                                                   |                                                                                     |
| 53116 | TT-25                                                                             |        |                                                                                   |                                                                                   |                                                                                     |
| 53117 | TT-27                                                                             |        |                                                                                   |                                                                                   |                                                                                     |
| 53118 | TT-30                                                                             |        | 70                                                                                |                                                                                   |                                                                                     |
| 53119 | TT-35                                                                             |        |                                                                                   |                                                                                   |                                                                                     |
| 53120 | TT-40                                                                             | 55     |                                                                                   | 10                                                                                | ●                                                                                   |
| 53121 | TT-45                                                                             |        |                                                                                   |                                                                                   |                                                                                     |
| 53122 | TT-50                                                                             |        | 75                                                                                |                                                                                   |                                                                                     |
| 53123 | TT-55                                                                             |        | 85                                                                                |                                                                                   |                                                                                     |
| 53124 | TT-60                                                                             |        | 110                                                                               |                                                                                   |                                                                                     |
| 53125 | TT-70                                                                             |        |                                                                                   |                                                                                   |                                                                                     |


**TAMPER TORX SERIE LARGA / TAMPER TORX LONG / TAMPER TORX SÉRIE LONGUE / TAMPER TORX LANGE SERIE / TAMPER TORX SERIE LUNGA / TAMPER TORX SÉRIE LONGA / TAMPER TORX ВЫСОКАЯ СЕРИЯ**

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53149 | TT-20                                                                               |        |                                                                                     |                                                                                     |                                                                                       |
| 53150 | TT-25                                                                               |        |                                                                                     |                                                                                     |                                                                                       |
| 53151 | TT-27                                                                               |        |                                                                                     |                                                                                     |                                                                                       |
| 53152 | TT-30                                                                               |        | 100                                                                                 |                                                                                     |                                                                                       |
| 53153 | TT-35                                                                               |        |                                                                                     |                                                                                     |                                                                                       |
| 53154 | TT-40                                                                               | 100    |                                                                                     | 10                                                                                  | ●                                                                                     |
| 53155 | TT-45                                                                               |        |                                                                                     |                                                                                     |                                                                                       |
| 53156 | TT-50                                                                               |        | 105                                                                                 |                                                                                     |                                                                                       |
| 53157 | TT-55                                                                               |        | 125                                                                                 |                                                                                     |                                                                                       |
| 53158 | TT-60                                                                               |        | 165                                                                                 |                                                                                     |                                                                                       |
| 53159 | TT-70                                                                               |        |                                                                                     |                                                                                     |                                                                                       |


**PUNTA RIBE® CON VASO / RIBE® BIT SOCKETS / POINTE RIBE® AVEC DOUILLE / RIBE® SOCKETBIT / CHIAVI A BUSSOLA PUNTA RIBE® / PONTEIRA RIBE® COM CHAVE DE CAIXA / ГОЛОВКА ТОРЦЕВАЯ СО ВСТАВКОЙ С ПРОФИЛЕМ RIBE®**





| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 65985 | M5                                                                                  |        |                                                                                     |                                                                                     |                                                                                       |
| 65986 | M6                                                                                  |        | 90                                                                                  |                                                                                     |                                                                                       |
| 65987 | M7                                                                                  | 100    |                                                                                     | 10                                                                                  | ●                                                                                     |
| 65988 | M8                                                                                  |        | 95                                                                                  |                                                                                     |                                                                                       |






• \*Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)

• \*Para tornillos RIBE® (Marca registrada por Richard Bergner Verbindungstechnik GmbH & Co. KG) / \*For screws RIBE® (Richard Bergner Verbindungstechnik GmbH & Co. KG registered trademark) / \*Pour vis RIBE® (Marque enregistrée par Richard Bergner Verbindungstechnik GmbH & Co. KG)




## ■ 1/2"




| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 65989 | M9                                                                                | 100    | 100                                                                               | 10                                                                                | ●                                                                                   |
| 65990 | M10                                                                               |        | 110                                                                               |                                                                                   |                                                                                     |
| 65991 | M12                                                                               |        | 150                                                                               |                                                                                   |                                                                                     |
| 65992 | M14                                                                               |        | 180                                                                               |                                                                                   |                                                                                     |
| 65993 | M16                                                                               |        | 200                                                                               |                                                                                   |                                                                                     |

## ■ SET






| COD.  |  | PCS. |  |  | COD. PCS.                                                                          | Composición / Composition / Composition                                                                |
|-------|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 55993 | 1/2                                                                               | 12   | 900                                                                               | 1                                                                                 | 66801, 66802, 66803, 66804, 66805, 66806, 66807, 66808, 66809, 66811, 66812, 66813 | 1,2 x 8 - 6 x 10 - 2 x 12 mm - PH-2, PH-3, PH-4 - HEX-4 - HEX-5 - HEX-6 - HEX-8 - HEX-10 - HEX-12      |
| 55994 | 1/2                                                                               | 12   | 1000                                                                              | 1                                                                                 | 66807, 66808, 55704, 66809, 66810, 66811, 55705, 66812, 66813, 55706, 66814, 55707 | HEX-4 - HEX-5 - HEX-5,5 - HEX-6 - HEX-7 - HEX-8 - HEX-9,5 - HEX-10 - HEX-12 - HEX-13 - HEX-14 - HEX-19 |



| COD.  |  | PCS. |  |  | COD. PCS.                                                     | Composición / Composition / Composition |
|-------|------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------|
| 56179 | 1/2                                                                                | 9    | 950                                                                                | 1                                                                                  | 65985, 65986, 65987, 65988, 65989, 65990, 65991, 65992, 65993 | M5-M6-M7-M8-M9-M10-M12-M14-M16          |

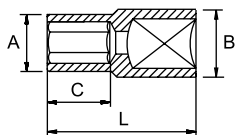
| COD.  |  | PCS. |  |  | COD. PCS.                                              | Composición / Composition / Composition                                                  |
|-------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------|
| 55998 | 1/2                                                                                 | 8    | 750                                                                                 | 1                                                                                   | 55688, 55689, 55690, 55691, 55692, 55693, 55695, 55696 | HEX-7/32" - HEX-1/4" - HEX-5/16" - HEX-3/8" - HEX 7/16" - HEX-1/2" - HEX-5/8" - HEX-3/4" |
| 55995 | 1/2                                                                                 | 8    | 650                                                                                 | 1                                                                                   | 66830, 66831, 66832, 66833, 66834, 66835, 66836, 66837 | T-20 - T-25 - T-27 - T-30 - T-40 - T-45 - T-50 - T-55                                    |





## ■ ADAPTADOR / ADAPTER / ADAPTATEUR / VERBINDUNGSTEIL / ADATTATORE / REDUTOR / АДАПТЕР

| COD.  |  |  |  |  |  |
|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 65885 | 1/2-3/8                                                                             |                                                                                     | 50                                                                                  | 6                                                                                   | ●                                                                                    |
| 65882 | 1/2-3/4                                                                             |                                                                                     | 125                                                                                 | 6                                                                                   | ●                                                                                    |






## ■ ADAPTADOR CON RETÉN DE BOLA / BALL RETAINER ADAPTER / ADAPTATEUR AVEC BILLE DE RETENUE / ADAPTOR FÜR STECKSCHLÜSSEL / ADATTATORE CON BLOCCAGGIO / ADAPTADOR DE RETENÇÃO PARA CHAVES DE CAIXA / ПЕРЕХОДНИК-ФИКСАТОР 1/4»ПАПА НА 1/4»МАМА ДЛЯ ГОЛОВОК



| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 66388 | 1/2"-1/4"                                                                           | 38     | 11     | 22     | 15     | 45                                                                                  | 6                                                                                   | ●                                                                                     |



## ■ PUNTA ADAPTADORA PARA VASOS DE IMPACTO / ADAPTER BIT FOR IMPACT SOCKETS / EMBOUT ADAPTATEUR POUR DOUILLES À CHOC / ADAPTERBIT FÜR SCHLAGNÜSSE / INSERTO ADATTATORE PER BUSSOLE A MACCHINA / PONTA ADAPTADORA PARA CHAVES DE CAIXA DE IMPACTO / ПЕРЕХОДНИК ДЛЯ УДАРНЫХ БИТ

| COD.  |  | L (mm) |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 61697 | 1/2"-1/4"                                                                           | 70     | 46                                                                                  | 6                                                                                    |

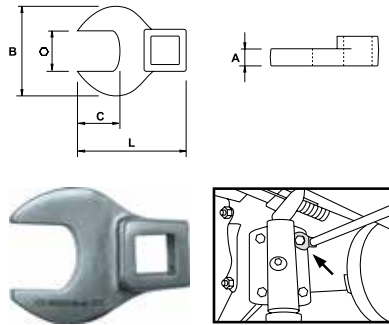


• \*Para tornillos RIBE® (Marca registrada por Richard Bergner Verbindungstechnik GmbH & Co. KG) / \*For screws RIBE® (Richard Bergner Verbindungstechnik GmbH & Co. KG registered trademark) / \*Pour vis RIBE® (Marque enregistrée par Richard Bergner Verbindungstechnik GmbH & Co. KG)

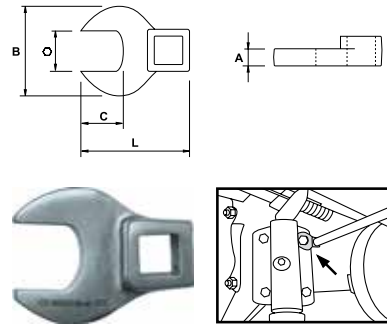
■ 1/2"

**LLAVE FIJA CROWFOOT / OPEN END CROWFOOT WRENCH / CLÉ À FOURCHE CROWFOOT / EINSTECK-MAULSCHLÜSSEL / CHIAVE FISSA CROWFOOT / PONTEIRA DE BOCA COM QUADRADO INTERIOR / РОЖКОВЫЙ КЛЮЧ С КВАДРАТОМ**

■ MM



■ INCH

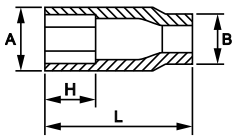


| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | g   |   |  |
|-------|-------|--------|--------|--------|--------|-----|---|--|
| 57224 | 20    |        |        |        |        |     |   |  |
| 57225 | 21    | 50     |        | 42     | 19     | 150 |   |  |
| 57226 | 22    |        |        | 43     | 20     |     |   |  |
| 57227 | 23    | 55     |        | 45     | 21     |     |   |  |
| 57228 | 24    |        |        | 46     | 22     | 160 |   |  |
| 57229 | 25    |        | 12     | 47     | 23     |     |   |  |
| 57230 | 26    | 60     |        | 49     | 24     | 185 |   |  |
| 57231 | 27    |        |        | 50     | 25     | 190 |   |  |
| 57232 | 28    |        |        | 50     | 26     |     |   |  |
| 57233 | 29    | 65     |        | 55     | 27     | 200 |   |  |
| 57234 | 30    |        |        | 55     | 27     |     |   |  |
| 57234 | 30    |        |        | 28     | 210    |     |   |  |
| 57235 | 31    | 70     |        | 29     | 220    |     |   |  |
| 57236 | 32    |        |        | 30     | 230    |     |   |  |
| 57237 | 33    |        |        | 31     | 250    | 10  | ● |  |
| 57238 | 34    |        |        | 32     | 260    |     |   |  |
| 57239 | 35    | 75     |        | 33     | 260    |     |   |  |
| 57240 | 36    |        |        | 34     | 270    |     |   |  |
| 57241 | 37    |        |        | 35     | 270    |     |   |  |
| 57242 | 38    | 80     | 14     | 36     | 280    |     |   |  |
| 57243 | 39    |        |        | 37     | 290    |     |   |  |
| 57244 | 40    |        |        | 38     | 300    |     |   |  |
| 57245 | 41    | 85     |        | 39     | 320    |     |   |  |
| 57246 | 42    |        |        | 40     | 320    |     |   |  |
| 57247 | 43    |        |        | 41     | 330    |     |   |  |
| 57248 | 44    | 90     |        | 42     | 340    |     |   |  |
| 57249 | 45    |        |        | 43     | 360    |     |   |  |
| 57250 | 46    | 95     | 15     | 44     | 380    |     |   |  |

| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | g   |    |   |
|-------|---------|--------|--------|--------|--------|-----|----|---|
| 57251 | 15/16   | 55     |        | 45     | 21     | 160 |    |   |
| 57252 | 1       |        |        | 47     | 23     |     |    |   |
| 57253 | 1.1/16  | 60     | 12     | 50     | 25     | 190 |    |   |
| 57254 | 1.1/8   | 65     |        | 50     | 26     | 200 |    |   |
| 57255 | 1.3/16  |        |        | 60     | 28     | 210 |    |   |
| 57256 | 1.1/4   | 70     |        | 60     | 30     | 230 |    |   |
| 57257 | 1.5/16  |        |        | 65     | 31     | 250 |    |   |
| 57258 | 1.3/8   | 75     |        | 70     | 33     | 260 |    |   |
| 57259 | 1.7/16  |        |        | 70     | 34     | 270 |    |   |
| 57260 | 1.1/2   | 80     | 14     | 75     | 36     | 280 |    |   |
| 57261 | 1.9/16  |        |        | 75     | 37     | 290 |    |   |
| 57262 | 1.5/8   | 85     |        | 80     | 39     | 320 |    |   |
| 57263 | 1.11/16 |        |        | 80     | 41     | 330 |    |   |
| 57264 | 1.3/4   | 90     |        | 84     | 42     | 340 | 10 | ● |
| 57265 | 1.13/16 |        |        | 84     | 44     | 380 |    |   |
| 57266 | 1.7/8   | 95     |        | 90     | 45     | 400 |    |   |
| 57267 | 1.15/16 |        |        | 90     | 46     | 430 |    |   |
| 57268 | 2       |        |        | 95     | 49     | 460 |    |   |
| 57269 | 2.1/16  |        |        | 95     | 480    |     |    |   |
| 57270 | 2.1/8   | 100    |        | 100    | 50     | 600 |    |   |
| 57271 | 2.3/16  |        | 15     | 100    | 50     | 600 |    |   |
| 57272 | 2.1/4   |        |        | 105    | 55     | 700 |    |   |
| 57273 | 2.5/16  | 105    |        | 105    | 55     | 700 |    |   |
| 57274 | 2.3/8   |        |        | 105    | 55     | 700 |    |   |
| 57275 | 2.7/16  | 110    |        | 110    | 60     | 750 |    |   |
| 57276 | 2.1/2   |        |        | 110    | 60     | 850 |    |   |

## ■ 1/2"

LLAVES DE VASO PARA BUJÍAS / SPARK PLUG SOCKETS / DOUILLES POUR BOUGIES / ZÜNDKERZEN - STECKSCHLÜSSEL / CHIAVI PER CANDELE / CHAVES DE CAIXA PA VELAS / ГОЛОВКИ ДЛЯ СВЕЧЕЙ ЗАЖИГАНИЯ



| COD.  | AF inch | AF mm | L (m) | A (mm) | B (mm) | H (mm) | g   |   |   |
|-------|---------|-------|-------|--------|--------|--------|-----|---|---|
| 61462 | 1/2     | 16    | 65    | 22     | 22     | 14     | 100 | 6 | • |
| 61463 |         | 21    |       | 28     | 24     | 16     | 150 |   |   |



## ■ MANGO ARTICULADO / SWIVEL HANDLE / MANCHE ARTICULÉ / GELENKGRIF / IMPUGNATURA SNODABILE / CABO ARTICULADO / РУЧКА С ШАРНИРОМ

| COD.  | AF inch | L (mm) | °        | g   |
|-------|---------|--------|----------|-----|
| 61441 | 1/2     | 390    | 0 - 180° | 650 |



## ■ MANGO ARTICULADO DE ACCIÓN RÁPIDA / QUICK RELEASE SWIVEL HANDLE / MANCHE ARTICULÉ ACTION RAPIDE / GELENKGRIF MIT SCHNELLVERSTELLUNG / MANICO SNODABILE AZIONE RAPIDA / CABO ARTICULADO DE ACCÃO RÁPIDA / БЫСТРОСЪЕМНАЯ РУЧКА С ШАРНИРОМ

| COD.  | AF inch | L (mm) | g   |
|-------|---------|--------|-----|
| 61483 | 1/2     | 430    | 900 |



## ■ MANGO ARTICULADO TELESCÓPICO / TELESCOPIC SWIVEL HANDLE / MANCHE ARTICULÉ TÉLESCOPIQUE / TELESKOPISCHE GELENKGRIF / MANICO SNODABILE FLESSIBILE / CABO ARTICULADO TELESCÓPICO / ТЕЛЕКОПИЧЕСКАЯ РУЧКА С ШАРНИРОМ

| COD.  | AF inch | L min. (mm) | L max. (mm) | g    |
|-------|---------|-------------|-------------|------|
| 61484 | 1/2     | 430         | 650         | 1150 |



## ■ ALARGADERA / EXTENSION / RALLONGE / VERLÄNGERUNG / PROLUNGA / EXTENÇÃO / УДЛИНИТЕЛЬ

| COD.  | AF inch | L (inch) | g   |   |   |
|-------|---------|----------|-----|---|---|
| 61453 |         | 3        | 135 |   | • |
| 61455 |         | 5        | 220 |   |   |
| 61458 | 1/2     | 10       | 370 | 5 |   |
| 61464 |         | 15       | 590 |   | - |
| 61472 |         | 20       | 740 |   |   |



DIN 3123

## ■ ALARGADERA FLEXIBLE / FLEXIBLE HANDLE / RALLONGE FLEXIBLE / GELENK-STECKGRIF / PROLUNGA FLESSIBILE / EXTENSÃO FLEXÍVEL / ГИБКАЯ РУКОЯТКА

| COD.  | AF inch | L (inch) | g   |
|-------|---------|----------|-----|
| 62119 | 1/2     | 8        | 300 |



DIN 3122

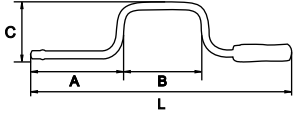
## ■ ALARGADERA ANGULAR / WOBBLE DRIVE EXTENSION / RALLONGE ANGULAIRE / WACKELANTRIEBSERWEITERUNG / PROLUNGA ANGOLARE / EXTENSÃO ANGULAR / УГЛОВОЙ УДЛИНИТЕЛЬ

| COD.  | AF inch | L (inch) | g   |
|-------|---------|----------|-----|
| 59104 |         | 2        | 90  |
| 59105 | 1/2     | 5        | 220 |
| 59106 |         | 10       | 420 |



■ 1/2"

■ **BERBIQUÍ / SPEEDER HANDLE / VILEBREQUIN / KURBEL / LEVA GIROBECCHINO / MANIVELA / КОЛЕНЧАТАЯ РУЧКА**

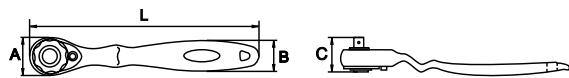


| COD.         | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | g   | Icon |
|--------------|---------|--------|--------|--------|--------|-----|------|
| <b>61434</b> | 1/2     | 410    | 130    | 145    | 95     | 550 | 5    |

DIN 3122

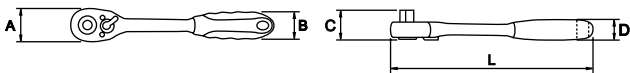
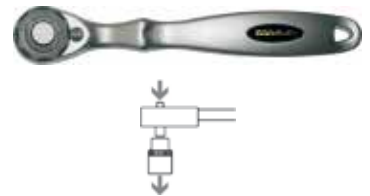


■ **LLAVE DE CARRACA REVERSIBLE / REVERSIBLE RATCHET HANDLE / CLÉ À CLIQUET RÉVERSIBLE / UMSCHALTKNARRE / CHIAVE A CRICCO REVERSIBILE / ROQUETE REVERSIVEL / РЕВЕРСИВНАЯ ТРЕЩЕТКА**



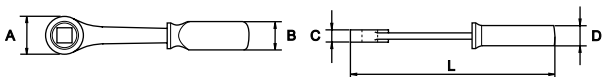
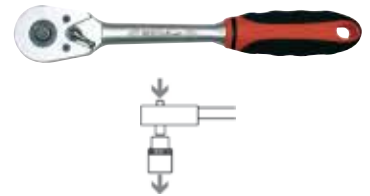
| COD.         | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | g   | Icon | Icon |
|--------------|---------|--------|--------|--------|--------|-----|------|------|
| <b>61430</b> | 1/2     | 230    | 39     | 31     | 45     | 550 | 6    | ●    |

DIN 3122



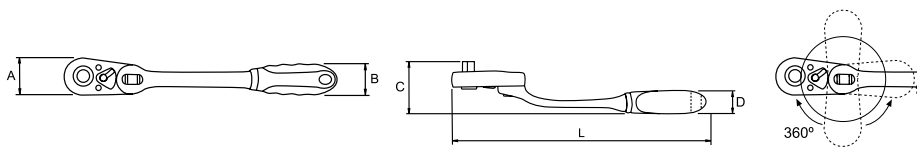
| COD.         | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   | Icon | Icon |
|--------------|---------|--------|--------|--------|--------|--------|-----|------|------|
| <b>62606</b> | 1/2     | 250    | 42     | 36     | 37     | 28     | 560 | 6    | ●    |

DIN 3122



| COD.         | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   | Icon | Icon |
|--------------|---------|--------|--------|--------|--------|--------|-----|------|------|
| <b>61168</b> | 1/2     | 280    | 45     | 40     | 25     | 25     | 540 | 6    | ●    |

DIN 3122



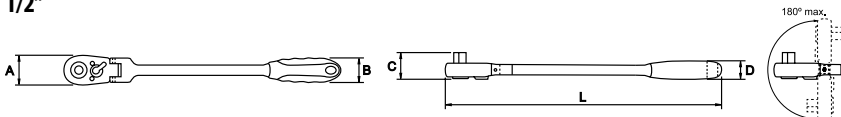
| COD.         | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   | Icon | Icon |
|--------------|---------|--------|--------|--------|--------|--------|-----|------|------|
| <b>57410</b> | 1/2     | 310    | 40     | 36     | 72     | 28     | 750 | 6    | ●    |

DIN 3122



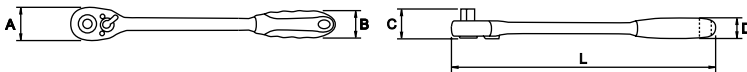


## ■ 1/2"



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   |   |   |
|-------|---------|--------|--------|--------|--------|--------|-----|---|---|
| 57413 | 1/2     | 450    | 37     | 36     | 38     | 28     | 880 | 6 | ● |

DIN 3122



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   |   |   |
|-------|---------|--------|--------|--------|--------|--------|-----|---|---|
| 57416 | 1/2     | 380    | 42     | 36     | 38     | 28     | 710 | 6 | ● |

DIN 3122



## ■ MANGO CORREDIZO EN "T" / SLIDING "T" HANDLE / POIGNÉE COULISSANTE / QUERGRIF / ASTA CON QUADRO SCORREVOLO / CABO "T" CORREDIÇO / ПОДВИЖНАЯ "Т" РУЧКА

| COD.  | AF inch | L (mm) | g   |   |   |
|-------|---------|--------|-----|---|---|
| 61440 | 1/2     | 250    | 160 | 5 | ● |

DIN 3122



## ■ ARTICULACIÓN UNIVERSAL / UNIVERSAL JOINT / CARDAN UNIVERSEL / KARDANGELNKE / SNODO CARDANICO / CARDAN UNIVERSAL / ШАРНИР

| COD.  | AF inch | g   |    |   |
|-------|---------|-----|----|---|
| 61437 | 1/2     | 140 | 10 | ● |

DIN 3123



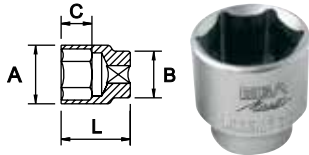
## ■ ADAPTADOR PLANO / FLAT ADAPTER / ADAPTATEUR PLAT / FLACHADAPTER / ADATTATORE PIATTO / ADAPTADOR PLANO / ПЛОСКИЙ ПЕРЕХОДНИК

| COD.  | IN (inch) | OUT (inch) | L (mm) | Ø 1 (mm) | g  |
|-------|-----------|------------|--------|----------|----|
| 59123 | 1/2       | 3/4        | 22     | 44       | 60 |



EGA Master  
 ART IN INNOVATION

- 3/4"
- STANDARD
- MM
- 6 PT. - 3/4"



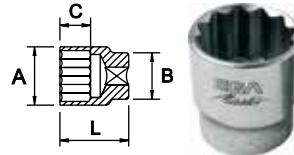
| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g    | Icon 1 | Icon 2 |
|-------|-------|--------|--------|--------|--------|----|------|--------|--------|
| 60501 | 19    |        | 30     | 33     |        |    |      |        |        |
| 60502 | 21    |        | 32     |        | 14     |    | 210  |        |        |
| 60503 | 22    |        |        |        |        |    |      |        |        |
| 60504 | 23    |        | 33     |        | 15     |    |      |        |        |
| 60505 | 24    |        | 34     |        |        |    |      |        |        |
| 60506 | 25    | 50     |        | 36     | 17     |    | 220  |        |        |
| 60507 | 26    |        |        |        |        |    |      |        |        |
| 60508 | 27    |        | 38     |        |        |    |      |        |        |
| 60509 | 28    |        | 39     |        |        |    | 230  | 10     |        |
| 60510 | 29    |        | 40     |        | 24     |    | 250  |        |        |
| 60511 | 30    |        | 42     |        |        |    | 290  |        |        |
| 60512 | 32    |        | 44     | 38     | 26     |    | 300  |        |        |
| 60513 | 33    |        |        |        | 28     |    |      |        |        |
| 60514 | x 34  | 55     | 46     |        | 26     | 6  | 330  |        | ●      |
| 60515 | 35    |        | 48     |        | 28     |    | 390  |        |        |
| 60516 | 36    |        | 50     | 42     | 29     |    | 420  |        |        |
| 60517 | 38    |        |        |        |        |    | 470  |        |        |
| 60518 | 40    | 60     |        | 43     | 31     |    | 500  |        |        |
| 60519 | 41    |        | 55     |        |        |    |      |        |        |
| 60520 | 42    | 65     |        | 45     | 34     |    | 550  |        |        |
| 60521 | 46    |        | 60     |        | 37     |    | 650  |        |        |
| 60522 | 50    | 70     |        |        | 38     |    | 850  | 5      |        |
| 60523 | 54    | 75     | 75     | 48     | 40     |    | 1000 |        |        |
| 60524 | 55    |        |        |        | 41     |    |      |        |        |
| 60524 | 60    | 80     | 80     |        |        |    | 1100 |        |        |
| 60546 | 65    | 82     | 82     |        | 45     |    | 1350 |        |        |

● I DIN 3124

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

- 12 PT. - 3/4"



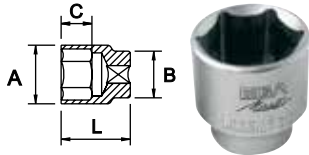
| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g    | Icon 1 | Icon 2 |
|-------|-------|--------|--------|--------|--------|----|------|--------|--------|
| 67565 | 19    |        | 30     | 33     |        |    |      |        |        |
| 67566 | 21    |        | 32     |        | 14     |    | 210  |        |        |
| 67567 | 22    |        |        |        |        |    |      |        |        |
| 67568 | 23    |        | 33     |        | 15     |    |      |        |        |
| 67569 | 24    |        | 34     |        |        |    |      |        |        |
| 67570 | 25    | 50     |        | 36     | 17     |    | 220  |        |        |
| 67571 | 26    |        |        |        |        |    |      |        |        |
| 67572 | 27    |        | 38     |        |        |    |      |        |        |
| 67573 | 29    |        | 40     |        | 24     |    | 250  | 10     |        |
| 67574 | 30    |        | 42     |        |        |    | 290  |        |        |
| 67575 | 32    |        | 44     | 38     | 26     |    | 300  |        |        |
| 67576 | x 33  |        |        |        | 28     |    |      |        |        |
| 67577 | x 34  | 55     | 46     |        | 26     | 12 | 330  |        | ●      |
| 67578 | 35    |        | 48     |        | 28     |    | 390  |        |        |
| 67579 | 36    |        | 50     | 42     | 29     |    | 420  |        |        |
| 67580 | 38    |        |        |        |        |    | 470  |        |        |
| 67581 | 40    | 60     |        | 43     | 31     |    | 500  |        |        |
| 67582 | 41    |        | 55     |        |        |    |      |        |        |
| 67583 | 42    | 65     |        | 45     | 34     |    | 550  |        |        |
| 67584 | 44    |        | 60     |        | 37     |    | 600  |        |        |
| 67585 | 46    | 70     |        |        | 38     |    | 650  | 5      |        |
| 67586 | 50    | 70     | 70     | 48     | 40     |    | 850  |        |        |
| 67587 | 54    | 75     | 75     |        |        |    | 1000 |        |        |
| 67588 | 55    |        |        |        | 40     |    |      |        |        |

● I DIN 3124

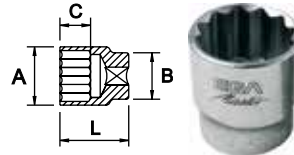
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

- 3/4"
- STANDARD
- INCH
- 6 PT.- 3/4"



- 12 PT.- 3/4"



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   | Icons |
|-------|---------|--------|--------|--------|--------|----|-----|-------|
| 67595 | 7/8     |        | 33     |        |        |    | 210 |       |
| 67596 | 15/16   |        |        |        | 17     |    |     |       |
| 67597 | 1       | 50     | 35     | 36     |        |    | 220 |       |
| 67598 | 1.1/16  |        | 38     |        | 24     |    |     |       |
| 67599 | 1.1/8   |        | 40     | 38     | 27     |    | 270 | 10    |
| 67601 | 1.1/4   |        | 44     |        | 28     |    | 290 |       |
| 67602 | 1.5/16  | 55     | 46     | 39     | 29     | 6  | 310 |       |
| 67603 | 1.3/8   |        | 48     | 42     |        |    | 350 |       |
| 67604 | 1.7/16  | 60     | 50     |        | 30     |    | 400 |       |
| 67605 | 1.1/2   |        |        |        |        |    | 460 |       |
| 67607 | 1.5/8   |        | 55     | 45     | 32     |    | 550 |       |
| 67608 | 1.11/16 | 65     | 60     |        | 34     |    | 700 | 5     |
| 67610 | 1.13/16 |        |        | 47     | 35     |    |     |       |
| 67612 | 2       | 70     | 70     | 48     | 41     |    | 850 |       |

 DIN 3124

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   | Icons |
|-------|---------|--------|--------|--------|--------|----|-----|-------|
| 60526 | 3/4     |        | 30     |        |        |    | 210 |       |
| 60527 | 7/8     |        | 33     |        |        |    |     |       |
| 60528 | 15/16   | 50     | 35     | 36     | 17     |    |     |       |
| 60529 | 1       |        |        |        |        |    | 220 |       |
| 60530 | 1.1/16  |        | 38     |        | 24     |    |     |       |
| 60531 | 1.1/8   |        | 40     |        | 27     |    | 270 | 10    |
| 60500 | 1.3/16  |        | 42     | 38     | 25     |    | 290 |       |
| 60532 | 1.1/4   | 55     | 44     |        | 28     |    | 310 |       |
| 60533 | 1.5/16  |        | 46     | 39     | 29     | 12 | 350 |       |
| 60534 | 1.3/8   |        | 48     | 42     |        |    | 400 |       |
| 60535 | 1.7/16  | 60     | 50     |        | 30     |    | 460 |       |
| 60536 | 1.1/2   |        |        |        |        |    | 550 |       |
| 60537 | 1.5/8   |        | 55     | 45     | 32     |    | 700 | 5     |
| 60538 | 1.11/16 | 65     | 60     |        | 34     |    |     |       |
| 60499 | 1.3/4   |        |        |        | 35     |    |     |       |
| 60539 | 1.13/16 |        |        | 47     |        |    | 700 |       |
| 60540 | 1.7/8   | 70     | 65     | 48     | 39     |    |     |       |
| 60541 | 2       |        | 70     | 48     | 41     |    | 850 |       |

 DIN 3124

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

# BE SAFE...BE EFFICIENT

y 100% cromado pulido espejo / 100% mirror polished chrome plating / 100% polie chromée

Si no encuentra el artículo que necesita, consúltenos en [consulta@egamaster.com](mailto:consulta@egamaster.com) o en [www.egamaster.com](http://www.egamaster.com)  
 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
 Si vous ne trouvez pas l'article que vous desirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)

■ 3/4"

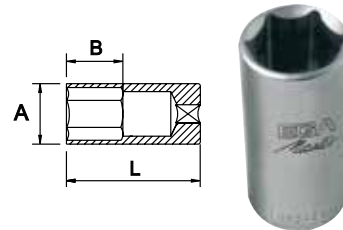
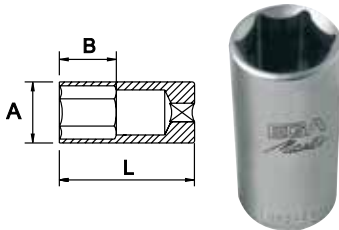
■ SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

■ MM

■ INCH

■ 6 PT.- 3/4"

■ 6 PT.- 3/4"



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | Pt | g   | Icons |
|-------|-------|--------|--------|--------|----|-----|-------|
| 56900 | 19    |        | 29     |        |    | 300 |       |
| 56901 | 21    |        | 31     |        |    | 320 |       |
| 56902 | 22    |        | 32     | 26     |    | 360 |       |
| 56903 | 23    |        | 33     |        |    | 380 |       |
| 56904 | 24    |        | 34     |        |    | 400 | 10    |
| 56905 | 26    |        | 37     |        |    |     |       |
| 56906 | 27    |        | 38     |        |    | 420 |       |
| 56899 | x 28  | 90     | 38     |        | 6  |     | •     |
| 56907 | 29    |        | 40     | 28     |    | 460 |       |
| 56908 | 30    |        | 42     |        |    | 510 |       |
| 56909 | 32    |        | 44     |        |    | 560 |       |
| 56910 | 34    |        | 47     |        |    | 610 | 5     |
| 56911 | 36    |        | 50     | 30     |    | 670 |       |
| 56912 | 38    |        | 52     | 34     |    | 700 |       |
| 56913 | 41    |        | 56     |        |    | 790 |       |

| COD.  | AF inch  | L (mm) | A (mm) | B (mm) | Pt | g   | Icons |
|-------|----------|--------|--------|--------|----|-----|-------|
| 56914 | 3/4      |        | 29     |        |    | 300 |       |
| 56915 | 7/8      |        | 32     |        |    | 360 |       |
| 56916 | 15/16    |        | 34     | 26     |    | 400 |       |
| 56917 | 1        |        | 37     |        |    | 410 | 10    |
| 56918 | y 1.1/16 | 90     | 38     |        | 6  | 420 | •     |
| 56919 | 1.1/8    |        | 40     | 28     |    | 460 |       |
| 56920 | 1.1/4    |        | 44     |        |    | 560 |       |
| 56921 | 1.3/8    |        | 48     | 30     |    | 640 | 5     |
| 56922 | 1.1/2    |        | 52     | 34     |    | 700 |       |
| 56923 | 1.5/8    |        | 56     |        |    | 790 |       |

○ I DIN 3124

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

○ I DIN 3124

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

■ PUNTAS ATORNILLADORAS CON VASO / SOCKET BITS / EMBOUTS DE VISSAGE AVEC DOUILLE / BIT STECKDOSE / INSERTI A BUSSOLA / PONTEIRAS COM CHAVE DE CAIXA / ГОЛОВКИ-БИТЫ

■ HEXAGONAL / HEXAGONAL / HEXAGONALE / HEXAGONAL / ESAGONALE / HEXAGONAL

| COD.  | mm | L (mm) | g   | Icons |
|-------|----|--------|-----|-------|
| 53167 | 14 |        | 310 |       |
| 53168 | 17 | 80     | 330 | 10    |
| 53169 | 19 |        | 340 | •     |
| 53170 | 22 |        | 390 |       |



■ TORX®\*

| COD.  | Icon  | L (mm) | g   | Icons |
|-------|-------|--------|-----|-------|
| 53161 | T-60  |        | 310 |       |
| 53162 | T-70  | 80     | 320 | 10    |
| 53163 | T-80  |        | 330 | •     |
| 53164 | T-90  |        | 340 |       |
| 53165 | T-100 |        | 350 |       |








x 50% cromado aeroespacial - 50% cromado pulido espejo / 50% aerospace chrome plating - 50% mirror polished chrome plating / 50% chromée aérospatiale - 50% polie chromée

y 100% cromado pulido espejo / 100% mirror polished chrome plating / 100% polie chromée

\*Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)

## ■ 3/4"



## ■ ADAPTADOR / ADAPTER / ADAPTATEUR / VERBINDUNGSTEIL / ADATTATORE / REDUTOR / АДАПТЕР

| COD.  |  inch  |  |  |  |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 65883 | 3/4-1                                                                                                                                                                    | 250                                                                               |                                                                                   |                                                                                    |
| 65886 | 3/4-1/2"                                                                                                                                                                 | 135                                                                               | 6                                                                                 | •                                                                                  |



## ■ LLAVE DE CARRACA REVERSIBLE / REVERSIBLE RATCHET HANDLE / CLÉ À CLIQUET RÉVERSIBLE / UMSCHALTKNARRE / CHIAVE A CRICCO REVERSIBILE / ROQUETE REVERSIVEL / РЕВЕРСИВНАЯ ТРЕЩЕТКА



| COD.  |  inch | L (mm) | A (mm) | B (mm) | C (mm) |  |
|-------|----------------------------------------------------------------------------------------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|
| 61859 | 3/4                                                                                    | 500    | 69     | 25     | 58     | 2,2                                                                                 |




DIN 3122



## ■ MANGO ARTICULADO / SWIVEL HANDLE / MANCHE ARTICULÉ / GELENKGRIF / IMPUGNATURA SNODABILE / CABO ARTICULADO / РУЧКА С ШАРНИРОМ




| COD.  |  inch | L (mm) |  |  |
|-------|----------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 61473 | 3/4                                                                                    | 1000   | 3,7                                                                               | 6                                                                                  |



| COD.  |  inch | L (mm) |  |  |
|-------|------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 61456 | 3/4                                                                                      | 480    | 1,9                                                                                 | 6                                                                                    |







## ■ MANGO CORREDIZO EN "T" / SLIDING "T" HANDLE / POIGNÉE COULISSANTE / QUERGRIF / ASTA CON QUADRO SCORREVOLO / CABO "T" CORREDIÇO / ПОДВИЖНАЯ "Т" РУЧКА

| COD.  |  inch | L (mm) |  |  |
|-------|------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 61864 | 3/4                                                                                      | 450    | 1200                                                                                | 5                                                                                    |

DIN 3122







## ■ ARTICULACIÓN UNIVERSAL / UNIVERSAL JOINT / CARDAN UNIVERSEL / KARDANGELENK / SNODO CARDANICO / CARDAN UNIVERSAL / ШАРНИР

| COD.  |  inch |  |  |  |
|-------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 61860 | 3/4                                                                                      | 600                                                                                 | 6                                                                                   | •                                                                                    |

DIN 3123



## ■ ALARGADERA / EXTENSION / RALLONGE / VERLÄNGERUNG / PROLUNGA / EXTENÇÃO / УДЛИНИТЕЛЬ

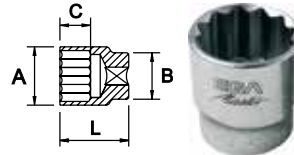
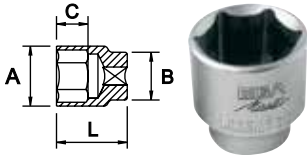
| COD.  |  inch | L (inch) |  |  |  |
|-------|------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 61865 | 3/4                                                                                      | 4        | 410                                                                                 | 5                                                                                   | •                                                                                     |
| 63910 |                                                                                          | 5        | 480                                                                                 |                                                                                     |                                                                                       |
| 61866 |                                                                                          | 8        | 700                                                                                 |                                                                                     |                                                                                       |
| 63911 |                                                                                          | 12       | 1050                                                                                |                                                                                     |                                                                                       |
| 63912 |                                                                                          | 16       | 1300                                                                                |                                                                                     |                                                                                       |
| 63913 |                                                                                          | 20       | 1650                                                                                |                                                                                     |                                                                                       |

DIN 3123



- 1"
- STANDARD
- MM
- 6 PT.- 1"

- INCH
- 12 PT.- 1"



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt   | g | Icons |
|-------|-------|--------|--------|--------|--------|------|---|-------|
| 65001 | 36    | 65     | 50     | 45     | 32     | 500  |   |       |
| 65002 | 41    | 70     | 55     | 39     | 35     | 600  |   |       |
| 65003 | 46    | 75     | 65     | 50     | 39     | 850  |   |       |
| 65004 | 50    | 80     | 70     | 41     |        | 1050 | 5 |       |
| 65005 | 54    |        | 75     |        |        | 1150 |   |       |
| 65006 | 55    | 80     |        |        | 42     | 1250 |   |       |
| 65007 | 58    |        |        |        |        | 1300 |   |       |
| 65008 | x 60  | 85     | 85     | 47     | 6      | 1400 |   |       |
| 65009 | 63    | 90     | 90     | 50     |        | 1500 |   |       |
| 65010 | 65    |        |        |        |        | 1550 |   |       |
| 65011 | 67    | 95     | 95     | 55     |        | 1650 |   |       |
| 65012 | 70    | 100    | 100    | 60     |        | 2050 | 4 |       |
| 65013 | 71    |        |        |        |        | 2400 |   |       |
| 65014 | 75    |        |        |        |        | 2550 |   |       |
| 65015 | 77    | 105    | 105    | 60     |        | 2550 |   |       |
| 65016 | 80    |        |        |        |        |      |   |       |

| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt   | g | Icons |
|-------|---------|--------|--------|--------|--------|------|---|-------|
| 65022 | 1.5/8   | 70     | 55     | 45     | 35     | 550  |   |       |
| 65023 | 1.13/16 | 75     | 65     | 50     |        | 800  |   |       |
| 65024 | 1.7/8   | 75     | 65     | 50     |        | 950  |   |       |
| 65025 | 2       | 80     | 70     | 37     |        | 1000 | 5 |       |
| 65026 | 2.1/8   | 80     | 75     | 38     |        | 1100 |   |       |
| 65027 | 2.3/16  | 80     | 75     | 38     |        | 1150 |   |       |
| 65028 | x 2.1/4 | 85     | 80     | 43     | 12     | 1200 |   |       |
| 65029 | 2.3/8   | 85     | 80     | 45     |        | 1300 |   |       |
| 65030 | 2.1/2   | 90     | 90     | 48     |        | 1400 |   |       |
| 65031 | 2.5/8   | 90     | 90     | 50     |        | 1550 |   |       |
| 65032 | 2.3/4   | 95     | 95     | 55     |        | 1950 | 4 |       |
| 65033 | 3       | 105    | 105    | 60     |        | 2450 |   |       |
| 65034 | 3.1/8   |        |        |        |        |      |   |       |

● I DIN 3124

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

● I DIN 3124

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

■ **ADAPTADOR / ADAPTER / ADAPTATEUR / VERBINDUNGSTEIL / ADATTATORE / REDUTOR / АДАПТЕР**

| COD.  | AF inch | AF inch | g   | Icons |
|-------|---------|---------|-----|-------|
| 65040 | 1-3/4   |         | 430 | 6     |



■ **MANGO ARTICULADO / SWIVEL HANDLE / MANCHE ARTICULÉ / GELENKGRIF / IMPUGNATURA SNODABILE / CABO ARTICULADO / РУЧКА С ШАРНИРОМ**

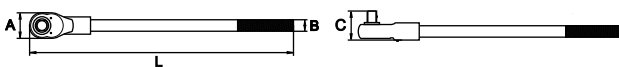
| COD.  | AF inch | L (mm) | Kg  | Icons |
|-------|---------|--------|-----|-------|
| 61474 | 1       | 1000   | 4,0 | 6     |



| COD.  | AF inch | L (mm) | Kg  | Icons |
|-------|---------|--------|-----|-------|
| 61457 | 1       | 650    | 2,5 | 6     |



■ **LLAVE DE CARRACA REVERSIBLE / REVERSIBLE RATCHET HANDLE / CLÉ À CLIQUET RÉVERSIBLE / UMSCHALTKNARRE / CHIAVE A CRICCO REVERSIBILE / ROQUETE REVERSIVEL / РЕВЕРСИВНАЯ ТРЕЩЕТКА**



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Kg  | Icons |
|-------|---------|--------|--------|--------|--------|-----|-------|
| 65035 | 1       | 650    | 71     | 29     | 67     | 4,4 | 1     |



x 50% cromado aeroespacial - 50% cromado pulido espejo / 50% aerospace chrome plating - 50% mirror polished chrome plating / 50% chromée aérospatiale - 50% polie chromée

**MANGO CORREDIZO EN "T" / SLIDING "T" HANDLE / POIGNÉE COULISSANTE / QUERGRIF / ASTA CON QUADRO SCORREVOLO / CABO "T" CORREDIÇO / ПОДВИЖНАЯ "Т" РУЧКА**

| COD.         | AF inch | L (mm) | g    |   |
|--------------|---------|--------|------|---|
| <b>65036</b> | 1       | 550    | 3300 | 1 |

DIN 3122


**ARTICULACIÓN UNIVERSAL / UNIVERSAL JOINT / CARDAN UNIVERSEL / KARDANGELNENK / SNODO CARDANICO / CARDAN UNIVERSAL / ШАРНИР**

| COD.         | AF inch | g    |   |   |
|--------------|---------|------|---|---|
| <b>65039</b> | 1       | 1200 | 4 | ● |

DIN 3123


**ALARGADERA / EXTENSION / RALLONGE / VERLÄNGERUNG / PROLUNGA / EXTENÇÃO / УДЛИНИТЕЛЬ**

| COD.         | AF inch | L (mm) | L (inch) | g    |   |
|--------------|---------|--------|----------|------|---|
| <b>65037</b> | 1       | 200    | 8        | 1150 | 5 |
| <b>65038</b> |         | 400    | 16       | 2300 |   |

DIN 3123




**KITS - SETS**
**1/4"**
**10 PCS.- 1/4"**

| COD.         | AF inch | PCS. |                                                       | Kg           |
|--------------|---------|------|-------------------------------------------------------|--------------|
| <b>58694</b> | 1/4     | 10   | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD | 51071<br>0,7 |

| PCS. | Composición / Composition / Composition  | Descripción / Description / Description      |                    |                                                                                       |
|------|------------------------------------------|----------------------------------------------|--------------------|---------------------------------------------------------------------------------------|
| 6    | 57165, 57166, 57167, 57168, 57169, 57170 | Llaves de vaso Torx® / Torx® Socket wrenches | E4-E5-E6-E7-E8-E10 | ★                                                                                     |
| 1    | 62603                                    | Carraca / Ratchet                            | -                  |  |
|      | 61443                                    | Alargadera / Extension                       | 6"                 |  |
|      | 61435                                    | Articulación universal / Universal joint     | -                  |  |
|      | 61438                                    | Mango en T / T handle                        | -                  |  |




**12 PCS.- 1/4"**

| COD.         | AF inch | PCS. |                                                       | Kg           |
|--------------|---------|------|-------------------------------------------------------|--------------|
| <b>58685</b> | 1/4     | 12   | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD | 51071<br>0,7 |

| PCS. | Composición / Composition / Composition                          | Descripción / Description / Description |                         |                                                                                       |
|------|------------------------------------------------------------------|-----------------------------------------|-------------------------|---------------------------------------------------------------------------------------|
| 9    | 61311, 61312, 61313, 61314, 61315,<br>61316, 61317, 61318, 61319 | Llaves de vaso / Socket wrenches        | 4-5-6-7-8-9-10-11-12 mm | ○                                                                                     |
| 1    | 62603                                                            | Carraca / Ratchet                       | -                       |  |
| 2    | 61442, 61443                                                     | Alargadera / Extension                  | 2" - 4"                 |  |







| COD.         | AF inch | PCS. |                                              | Kg           |
|--------------|---------|------|----------------------------------------------|--------------|
| <b>58687</b> | 1/4     | 12   | SERIE LARGA / LONG<br>PATTERN / SÉRIE LONGUE | 51079<br>0,9 |





| PCS. | Composición / Composition / Composition                          | Descripción / Description / Description              |                         |                                                                                       |
|------|------------------------------------------------------------------|------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------|
| 9    | 67640, 67642, 67644, 67645, 67646,<br>67647, 67648, 67649, 67650 | Llaves de vaso serie larga / Long<br>socket wrenches | 4-5-6-7-8-9-10-11-12 mm | ○                                                                                     |
| 1    | 62603                                                            | Carraca / Ratchet                                    | -                       |  |
| 2    | 61442, 61443                                                     | Alargadera / Extension                               | 2" - 4"                 |  |




## 1/4"




| COD.         |  | PCS. |  |  |     |
|--------------|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|
| <b>58686</b> | 1/4                                                                               | 12   | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD                             | 51071                                                                               | 0,7 |


| PCS. | Composición / Composition / Composition                       | Descripción / Description / Description |  |  |
|------|---------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 9    | 60421, 60422, 60423, 60424, 60425, 60426, 60427, 60428, 60429 | Llaves de vaso / Socket wrenches        | 3/16" - 7/32" - 1/4" - 9/32" - 5/16" - 11/32" - 3/8" - 7/16" - 1/2"               | -                                                                                   |
| 1    | 62603                                                         | Carraca / Ratchet                       | -                                                                                 |  |
| 2    | 61442, 61443                                                  | Alargadera / Extension                  | 2" - 4"                                                                           |  |




| COD.         |  | PCS. |  |  |     |
|--------------|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|
| <b>58688</b> | 1/4                                                                               | 12   | SERIE LARGA / LONG<br>PATTERN / SÉRIE LONGUE                                      | 51079                                                                               | 0,9 |

| PCS. | Composición / Composition / Composition                       | Descripción / Description / Description |  |  |
|------|---------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 9    | 67675, 67676, 67677, 67678, 67679, 67680, 67681, 67682, 67683 | Llaves de vaso / Socket wrenches        | 3/16" - 7/32" - 1/4" - 9/32" - 5/16" - 11/32" - 3/8" - 7/16" - 1/2"               | -                                                                                   |
| 1    | 62603                                                         | Carraca / Ratchet                       | -                                                                                 |  |
| 2    | 61442, 61443                                                  | Alargadera / Extension                  | 2" - 4"                                                                           |  |

| COD.         |  | PCS. |  |  |
|--------------|------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>61323</b> | 1/4                                                                                | 12   | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD                              | 0,4                                                                                  |








| PCS. | Composición / Composition / Composition                                     | Descripción / Description / Description |  |  |
|------|-----------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 11   | 61311, 61312, 61313, 61314, 61315, 61316, 61317, 61318, 61319, 61320, 61321 | Llaves de vaso / Socket wrenches        | 4-5-6-7-8-9-10-11-12-13-14 mm                                                       | -                                                                                     |
| 1    | 62603                                                                       | Carraca / Ratchet                       | -                                                                                   |  |

| COD.         |  | PCS. |  |  |
|--------------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>61324</b> | 1/4                                                                                 | 12   | SERIE ESTÁNDAR / LONG PATTERN /<br>SÉRIE STANDARD                                   | 0,4                                                                                   |

| PCS. | Composición / Composition / Composition                                     | Descripción / Description / Description |  |  |
|------|-----------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 11   | 60420, 60421, 60422, 60423, 60424, 60425, 60426, 60427, 60428, 60429, 60430 | Llaves de vaso / Socket wrenches        | 5/32" - 3/16" - 7/32" - 1/4" - 9/32" - 5/16" - 11/32" - 3/8" - 7/16" - 1/2" - 9/16" | -                                                                                     |
| 1    | 62603                                                                       | Carraca / Ratchet                       | -                                                                                   |  |

## 16 PCS.- 1/4"

| COD.         |  | PCS. |  |  |     |
|--------------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----|
| <b>58689</b> | 1/4                                                                                 | 16   | SERIE ESTANDAR / STANDARD<br>PATTERN / SÉRIE STANDARD                               | 51071                                                                                 | 0,9 |

| PCS. | Composición / Composition / Composition                                     | Descripción / Description / Description   |  |  |
|------|-----------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 11   | 60420, 60421, 60422, 60423, 60424, 60425, 60426, 60427, 60428, 60429, 60430 | Llaves de vaso / Socket wrenches          | 5/32" - 3/16" - 7/32" - 1/4" - 9/32" - 5/16" - 11/32" - 3/8" - 7/16" - 1/2" - 9/16" | -                                                                                     |
|      | 62603                                                                       | Carraca / Ratchet                         | -                                                                                   |  |
|      | 61443                                                                       | Alargadera / Extension                    | 4"                                                                                  |  |
| 1    | 61435                                                                       | Articulación universal / Universal joint  | -                                                                                   |  |
|      | 61438                                                                       | Mango articulado / Hinged handle          | -                                                                                   |  |
|      | 66732                                                                       | Destornillador portavasos / Socket holder | -                                                                                   |  |





09

**LLAVES DE VASO**  
**SOCKET WRENCHES**  
**DOUILLES**  
**STECKSCHLÜSSEL**  
**BUSSOLE**  
**CHAVES DE CAIXA**  
**ГОЛОВКИ**



1/4"

18 PCS.- 1/4"

| COD.         | AF<br>inch                                                                                      | PCS.                                         |                                                       |                                           | Kg  |
|--------------|-------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|-------------------------------------------|-----|
| <b>55591</b> | 1/4                                                                                             | 18                                           | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD | 51071                                     | 0,9 |
| PCS.         | Composición / Composition /<br>Composition                                                      | Descripción / Description / Description      |                                                       |                                           |     |
| 13           | 61311, 63974, 61312, 63975, 61313,<br>61314, 61315, 61316, 61317, 61318,<br>61319, 61320, 61321 | Llaves de vaso / Socket wrenches             |                                                       | 4-4,5-5-5,5-6-7-8-9-10-11-12-13-<br>14 mm |     |
|              | 62603                                                                                           | Carraca / Ratchet                            |                                                       | -                                         |     |
|              | 61443                                                                                           | Alargadera / Extension                       |                                                       | 4"                                        |     |
| 1            | 61438                                                                                           | Mango en T / T Handle                        |                                                       | -                                         |     |
|              | 61435                                                                                           | Articulación universal / Universal joint     |                                                       | -                                         |     |
|              | 66732                                                                                           | Destornillador portavasos / Socket<br>holder |                                                       | -                                         |     |



21 PCS.- 1/4"

| COD.         | AF<br>inch                                                                        | PCS.                                                |                                                                                           |                                                                                           | Kg  |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----|
| <b>58697</b> | 1/4                                                                               | 21                                                  | SERIE ESTÁNDAR Y CROWFOOT / STANDARD AND<br>CROWFOOT PATTERN / SÉRIE STANDARD ET CROWFOOT | 51079                                                                                     | 2,1 |
| PCS.         | Composición / Composition /<br>Composition                                        | Descripción / Description / Description             |                                                                                           |                                                                                           |     |
| 11           | 60420, 60421, 60422, 60423, 60424,<br>60425, 60426, 60427, 60428, 60429,<br>60430 | Llaves de vaso / Socket wrenches                    |                                                                                           | 5/32" - 3/16" - 7/32" - 1/4" - 9/32"<br>- 5/16" - 11/32" - 3/8" - 7/16" - 1/2"<br>- 9/16" |     |
| 5            | 57218, 57219, 57220, 57221, 57222                                                 | Llaves Fijas Crowfoot / Open end<br>Crowfoot wrench |                                                                                           | 5/16" - 3/8" - 7/16" - 1/2" - 9/16"                                                       |     |
| 1            | 62603                                                                             | Carraca / Ratchet                                   |                                                                                           | -                                                                                         |     |
| 2            | 61454, 61444                                                                      | Alargadera / Extension                              |                                                                                           | 3" - 6"                                                                                   |     |
|              | 61435                                                                             | Articulación universal / Universal joint            |                                                                                           | -                                                                                         |     |
| 1            | 66732                                                                             | Destornillador portavasos / Socket<br>holder        |                                                                                           | -                                                                                         |     |












24 PCS.- 1/4"

| COD.         | AF<br>inch                                                              | PCS.                                                 |                                              |                                                                        | Kg  |
|--------------|-------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------|-----|
| <b>58693</b> | 1/4                                                                     | 24                                                   | SERIE LARGA / LONG<br>PATTERN / SÉRIE LONGUE | 51053                                                                  | 2,0 |
| PCS.         | Composición / Composition /<br>Composition                              | Descripción / Description / Description              |                                              |                                                                        |     |
| 10           | 67640, 67642, 67644, 67645, 67646,<br>67647, 67648, 67649, 67650, 67651 | Llaves de vaso serie larga / Long<br>socket wrenches |                                              | 4-5-6-7-8-9-10-11-12-13 mm                                             |     |
| 9            | 67675, 67676, 67677, 67678, 67679,<br>67680, 67681, 67682, 67683        | Llaves de vaso serie larga / Long<br>socket wrenches |                                              | 3/16" - 7/32" - 1/4" - 9/32" - 5/16" -<br>11/32" - 3/8" - 7/16" - 1/2" |     |
|              | 62603                                                                   | Carraca / Ratchet                                    |                                              | -                                                                      |     |
|              | 61442                                                                   | Alargadera / Extension                               |                                              | 2"                                                                     |     |
| 1            | 65874                                                                   | Mango articulado / Hinged handle                     |                                              | -                                                                      |     |
|              | 61435                                                                   | Articulación universal / Universal joint             |                                              | -                                                                      |     |
|              | 66732                                                                   | Destornillador portavasos / Socket<br>holder         |                                              | -                                                                      |     |











## 1/4"

| COD.         |  | PCS.                                         |  |  |     |
|--------------|-----------------------------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|
| <b>61791</b> | 1/4                                                                               | 24                                           | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD                             | 51071                                                                               | 1,6 |
| PCS.         | Composición / Composition /<br>Composition                                        | Descripción / Description / Description      |                                                                                   |    |     |
| 10           | 61311, 61312, 61313, 61314, 61315,<br>61316, 61317, 61318, 61319, 61320           | Llaves de vaso / Socket wrenches             |                                                                                   | 4-5-6-7-8-9-10-11-12-13 mm                                                          | -   |
| 9            | 60421, 60422, 60423, 60424, 60425,<br>60426, 60427, 60428, 60429                  |                                              |                                                                                   | 3/16"-7/32"-1/4"-9/32"-5/16"-11/32"-<br>3/8"-7/16"-1/2"                             | -   |
|              | 62603                                                                             | Carraca / Ratchet                            | -                                                                                 |  |     |
|              | 61442                                                                             | Alargadera / Extension                       | 2"                                                                                |  |     |
| 1            | 61435                                                                             | Articulación universal / Universal joint     | -                                                                                 |  |     |
|              | 65874                                                                             | Mango articulado / Hinged handle             | -                                                                                 |  |     |
|              | 66732                                                                             | Destornillador portavasos / Socket<br>holder | -                                                                                 |  |     |















## 25 PCS.- 1/4"

| COD.         |                | PCS.                                                  |          |    |     |
|--------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----|
| <b>58696</b> | 1/4                                                                                             | 25                                                    | SERIE ESTÁNDAR Y CROWFOOT / STANDARD AND<br>CROWFOOT PATTERN / SÉRIE STANDARD ET CROWFOOT | 51079                                                                                 | 1,1 |
| PCS.         | Composición / Composition /<br>Composition                                                      | Descripción / Description / Description               |                                                                                           |    |     |
| 13           | 61311, 63974, 61312, 63975, 61313,<br>61314, 61315, 61316, 61317, 61318,<br>61319, 61320, 61321 | Llaves de vaso / socket wrenches                      |                                                                                           | 4-4,5-5-5,5-6-7-8-9-10-11-12-13-<br>14 mm                                             | -   |
| 7            | 57211, 57212, 57213, 57214, 57215,<br>57216, 57217                                              | Llaves fijas Crowfoot / Open end<br>Crowfoot wrenches |                                                                                           | 7-8-9-10-11-12-13 mm                                                                  | -   |
| 1            | 62603                                                                                           | Carraca / Ratchet                                     | -                                                                                         |  |     |
| 2            | 61454, 61444                                                                                    | Alargadera / Extension                                | 3"-6"                                                                                     |  |     |
|              | 61435                                                                                           | Articulación universal / Universal joint              | -                                                                                         |  |     |
| 1            | 66732                                                                                           | Destornillador portavasos / Socket<br>holder          | -                                                                                         |  |     |













## 29 PCS.- 1/4"

| COD.         |  | PCS.                                               |  |  |     |
|--------------|-------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----|
| <b>61958</b> | 1/4                                                                                 | 29                                                 | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD                               | 51071                                                                                 | 0,8 |
| PCS.         | Composición / Composition /<br>Composition                                          | Descripción / Description / Description            |                                                                                     |    |     |
| 11           | 61311, 61312, 61313, 61314, 61315,<br>61316, 61317, 61318, 61319, 61320,<br>61321   | Llaves de vaso / Socket wrenches                   |                                                                                     | 4-5-6-7-8-9-10-11-12-13-14 mm                                                         | -   |
| 1            | 62603                                                                               | Carraca / Ratchet                                  | -                                                                                   |  |     |
| 2            | 61442, 61444                                                                        | Alargadera / Extension                             | 2"-6"                                                                               |  |     |
|              | 61438                                                                               | Mango en T / T Handle                              | -                                                                                   |  |     |
| 1            | 61435                                                                               | Articulación universal / Universal joint           | -                                                                                   |  |     |
| 5            | 66743, 66744, 66745, 66746, 66747                                                   | Punta hexagonal con vaso / Hex<br>bit socket       | 3-4-5-6-8                                                                           |  |     |
| 3            | 66733, 66734, 66735                                                                 | Punta plana con vaso / Flat bit socket             | 4 x 0,8 - 5,5 x 1 - 6,5 x 1,2                                                       |  |     |
| 4            | 66737, 66738, 66739, 58900                                                          | Punta Phillips® con vaso / Phillips®<br>bit socket | PH1-PH2-PH3-PH4                                                                     |  |     |
| 1            | 66732                                                                               | Destornillador portavasos / Socket<br>holder       | -                                                                                   |  |     |













## 1/4"

| COD.         |  | PCS. |  |  |     |
|--------------|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|
| <b>61961</b> | 1/4                                                                               | 29   | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD                             | 51071                                                                               | 0,8 |

| PCS. | Composición / Composition / Composition                                           | Descripción / Description / Description            |  |  |
|------|-----------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 11   | 60420, 60421, 60422, 60423, 60424,<br>60425, 60426, 60427, 60428, 60429,<br>60430 | Llaves de vaso / Socket wrenches                   | 5/32"-3/16"-7/32"-1/4"-9/32"-5/16"-<br>11/32"-3/8"-7/16"-1/2"-9/16"               | -                                                                                   |
| 1    | 62603                                                                             | Carraca / Ratchet                                  | -                                                                                 |  |
| 2    | 61442, 61444                                                                      | Alargadera / Extension                             | 2"-6"                                                                             |  |
| 1    | 61438                                                                             | Mango en T / T Handle                              | -                                                                                 |  |
| 1    | 61435                                                                             | Articulación universal / Universal joint           | -                                                                                 |  |
| 5    | 66743, 66744, 66745, 66746, 66747                                                 | Punta hexagonal con vaso / Hex<br>bit socket       | 3-4-5-6-8                                                                         |  |
| 3    | 66733, 66734, 66735                                                               | Punta plana con vaso / Flat bit socket             | 4 x 0,8 - 5,5 x 1 - 6,5 x 1,2                                                     |  |
| 4    | 66737, 66738, 66739, 58900                                                        | Punta Phillips® con vaso / Phillips®<br>bit socket | PH1-PH2-PH3-PH4                                                                   |  |
| 1    | 66732                                                                             | Destornillador portavasos / Socket<br>holder       | -                                                                                 |  |










| COD.         |  | PCS. |  |  |     |
|--------------|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|
| <b>55667</b> | 1/4                                                                               | 29   | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD                             | 51071                                                                               | 0,8 |

| PCS. | Composición / Composition / Composition                                           | Descripción / Description / Description           |  |  |
|------|-----------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 11   | 56015, 56017, 56018, 56019, 56020,<br>56021, 56023, 56024, 56025, 56026,<br>56027 | Spline                                            | M5, M6, M7, M8, M9, M10, M12, M14,<br>M15, M16, M18                                 | -                                                                                     |
| 1    | 62603                                                                             | Carraca / Ratchet                                 | -                                                                                   |  |
| 2    | 61442, 61444                                                                      | Alargadera / Extension                            | 2"-6"                                                                               |  |
| 1    | 61438                                                                             | Mango en T / T Handle                             | -                                                                                   |  |
| 1    | 61435                                                                             | Articulación universal / Universal joint          | -                                                                                   |  |
| 5    | 66743, 66744, 66745, 66746, 66747                                                 | Punta hexagonal con vaso / Hex<br>bit socket      | 3-4-5-6-8                                                                           |  |
| 3    | 66733, 66734, 66735                                                               | Punta plana con vaso / Flat bit socket            | 4 x 0,6 - 5,5 x 1 - 7 x 12                                                          |  |
| 4    | 66737, 66738, 66739, 58900                                                        | Punta Phillips® con vaso / Phillips<br>bit socket | PH1-PH2-PH3-PH4                                                                     |  |
| 1    | 61281                                                                             | Destornillador portavasos / Socket<br>holder      | -                                                                                   |  |



## 30 PCS.- 1/4"









| COD.         |  | PCS. |  |  |     |
|--------------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----|
| <b>58690</b> | 1/4                                                                                 | 30   | SERIE LARGA / LONG<br>PATTERN / SÉRIE LONGUE                                        | 51053                                                                                 | 3,0 |

| PCS. | Composición / Composition / Composition                                                                                                                                | Descripción / Description / Description              |                                |  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 11   | 67640, 67642, 67643, 67644,<br>67645, 67646, 67647, 67648, 67649,<br>67650, 67651<br>67674, 67675, 67676, 67677, 67678,<br>67679, 67680, 67681, 67682, 67683,<br>67684 | Llaves de vaso serie larga / Long<br>socket wrenches | 4-5-5,5-6-7-8-9-10-11-12-13 mm<br>5/32"-3/16"- 7/32"- 1/4"- 9/32"-<br>5/16"- 11/32"- 3/8"- 7/16"- 1/2"<br>- 9/16" | -                                                                                     |
| 1    | 62603                                                                                                                                                                  | Carraca / Ratchet                                    | -                                                                                                                 |  |
| 2    | 61442, 61444                                                                                                                                                           | Alargadera / Extension                               | 2"-6"                                                                                                             |  |
|      | 61445                                                                                                                                                                  | Alargadera flexible / Flexible handle                | 6"                                                                                                                |  |
|      | 61435                                                                                                                                                                  | Articulación universal / Universal joint             | -                                                                                                                 |  |
| 1    | 65874                                                                                                                                                                  | Mango articulado / Hinged handle                     | -                                                                                                                 |  |
|      | 61438                                                                                                                                                                  | Mango en T / T handle                                | -                                                                                                                 |  |
|      | 66732                                                                                                                                                                  | Destornillador portavasos / socket<br>holder         | -                                                                                                                 |  |











## 1/4"

| COD.  | AF<br>inch | PCS. |                                                                                        |       | Kg  |
|-------|------------|------|----------------------------------------------------------------------------------------|-------|-----|
| 58691 | 1/4        | 30   | SERIE ESTÁNDAR Y SERIE LARGA / STANDARD AND LONG<br>PATTERN / SÉRIE STANDARD ET LONGUE | 51053 | 2,8 |

| PCS. | Composición / Composition / Composition                                     | Descripción / Description / Description           |                                                                 |                                                                                     |
|------|-----------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 11   | 60420, 60421, 60422, 60423, 60424, 60425, 60426, 60427, 60428, 60429, 60430 | Llaves de vaso / Socket wrenches                  | 5/32"-3/16"-7/32"-1/4"-9/32"-5/16"-11/32"-3/8"-7/16"-1/2"-9/16" |    |
|      | 67674, 67675, 67676, 67677, 67678, 67679, 67680, 67681, 67682, 67683, 67684 | Llaves de vaso serie larga / Long socket wrenches |                                                                 |                                                                                     |
| 1    | 62603                                                                       | Carraca / Ratchet                                 | -                                                               |  |
| 2    | 61442, 61444                                                                | Alargadera / Extension                            | 2" - 6"                                                         |  |
|      | 61445                                                                       | Alargadera flexible / Flexible handle             | 6"                                                              |  |
|      | 65874                                                                       | Mango Articulado / Hinged handle                  |                                                                 |  |
| 1    | 61438                                                                       | Mango en T / T handle                             |                                                                 |  |
|      | 61435                                                                       | Articulación universal / Universal joint          | -                                                               |  |
|      | 66732                                                                       | Destornillador portavasos / Socket holder         |                                                                 |  |








| COD.  | AF<br>inch | PCS. |                                                       |       | Kg  |
|-------|------------|------|-------------------------------------------------------|-------|-----|
| 55592 | 1/4        | 30   | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD | 51053 | 2,5 |

| PCS. | Composición / Composition / Composition                                     | Descripción / Description / Description   |                                                                 |                                                                                       |
|------|-----------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 11   | 61322, 61311, 61312, 63975, 61313, 61314, 61315, 61316, 61317, 61318, 61319 | Llaves de vaso / Socket wrenches          | 3,2-4-5-5,5-6-7-8-9-10-11-12 mm                                 |    |
|      | 60420, 60421, 60422, 60423, 60424, 60425, 60426, 60427, 60428, 60429, 60430 |                                           | 5/32"-3/16"-7/32"-1/4"-9/32"-5/16"-11/32"-3/8"-7/16"-1/2"-9/16" |                                                                                       |
| 1    | 62603                                                                       | Carraca / Ratchet                         | -                                                               |  |
| 2    | 61442, 61444                                                                | Alargadera / Extension                    | 2"-6"                                                           |  |
|      | 61445                                                                       | Alargadera flexible / Flexible handle     |                                                                 |  |
|      | 65874                                                                       | Mango articulado / Hinged handle          |                                                                 |  |
| 1    | 61438                                                                       | Mango en T / T Handle                     |                                                                 |  |
|      | 61435                                                                       | Articulación universal / Universal joint  | -                                                               |  |
|      | 66732                                                                       | Destornillador portavasos / Socket holder |                                                                 |  |



## 32 PCS.- 1/4"

| COD.  | AF<br>inch | PCS. |                                                       |       | Kg  |
|-------|------------|------|-------------------------------------------------------|-------|-----|
| 58695 | 1/4        | 32   | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD | 51071 | 1,7 |

| PCS. | Composición / Composition / Composition                                     | Descripción / Description / Description         |                                         |                                                                                       |
|------|-----------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------|
| 1    | 62603                                                                       | Carraca / Ratchet                               | -                                       |  |
|      | 61443                                                                       | Alargadera / Extension                          | 4"                                      |  |
| 5    | 66743, 66744, 66745, 66746, 66747                                           | Punta hexagonal con vaso / Hex bit socket       | 3-4-5-6-8 mm                            |  |
|      | 55697, 55698, 55699, 55700                                                  |                                                 | 1/16"-5/64"-9/64"-7/32"                 |                                                                                       |
| 4    | 66733, 66734, 66735, 66736                                                  | Punta plana con vaso / Flat bit socket          | 4 x 0,8 - 5,5 x 1 - 6,5 x 1,2 - 8 x 1,2 |  |
| 3    | 66737, 66738, 66739                                                         | Punta Phillips® con vaso / Phillips® bit socket | PH1-PH2-PH3                             |  |
|      | 66740, 66741, 66742                                                         | Punta Pozidriv con vaso / Pozidriv bit socket   | PZ1-PZ2-PZ3                             |  |
| 11   | 66729, 66730, 66748, 66749, 66750, 66751, 66752, 66753, 66754, 66755, 66756 | Punta Torx® con vaso / Torx® bit socket         | T6-T7-T8-T9-T10-T15-T20-T25-T27-T30-T40 |  |



09

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1/4"

33 PCS.- 1/4"

| COD.         |                                                                                           | PCS.                                              |                                                                                     |                                       |     |
|--------------|-------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-----|
| <b>55590</b> | 1/4                                                                                       | 33                                                | SERIE ESTÁNDAR Y SERIE LARGA / STANDARD AND LONG PATTERN / SÉRIE STANDARD ET LONGUE | 51053                                 | 2,8 |
| PCS.         | Composición / Composition / Composition                                                   | Descripción / Description / Description           |                                                                                     |                                       |     |
| 13           | 61322, 61311, 61312, 63975, 61313, 61314, 61315, 61316, 61317, 61318, 61319, 61320, 61321 | Llaves de vaso / Socket wrenches                  |                                                                                     | 3,2-4-5-5,5-6-7-8-9-10-11-12-13-14 mm |     |
| 12           | 67640, 67642, 67643, 67644, 67645, 67646, 67647, 67648, 67649, 67650, 67651, 67652        | Llaves de vaso serie larga / Long socket wrenches |                                                                                     | 4-5-5,5-6-7-8-9-10-11-12-13-14 mm     |     |
| 1            | 62603                                                                                     | Carraca / Ratchet                                 |                                                                                     | -                                     |     |
| 2            | 61442, 61444                                                                              | Alargadera / Extension                            |                                                                                     | 2"-6"                                 |     |
|              | 61445                                                                                     | Alargadera flexible / Flexible handle             |                                                                                     |                                       |     |
|              | 65874                                                                                     | Mango articulado / Hinged handle                  |                                                                                     |                                       |     |
| 1            | 61438                                                                                     | Mango en T / T Handle                             |                                                                                     |                                       |     |
|              | 61435                                                                                     | Articulación universal / Universal joint          |                                                                                     |                                       |     |
|              | 66732                                                                                     | Destornillador portavasos / Socket holder         |                                                                                     |                                       |     |



1/4" - 1/2"

18 PCS.- 1/4" - 1/2"

| COD.         |                                                 | PCS.                                       |                                                    |                         |     |
|--------------|-------------------------------------------------|--------------------------------------------|----------------------------------------------------|-------------------------|-----|
| <b>58726</b> | 1/2, 1/4                                        | 18                                         | SERIE ESTÁNDAR / STANDARD PATTERN / SÉRIE STANDARD | 51079                   | 2,5 |
| PCS.         | Composición / Composition / Composition         | Descripción / Description / Description    |                                                    |                         |     |
| 7            | 61385, 61386, 61387, 61388, 61389, 61391, 61394 | Llaves de vaso 1/2" / Socket wrenches 1/2" |                                                    | 13-14-15-16-17-19-22 mm |     |
| 1            | 62606                                           | Carraca 1/2" / Ratchet 1/2"                |                                                    | -                       |     |
|              | 61455                                           | Alargadera 1/2" / Extension 1/2"           |                                                    | 5"                      |     |
| 7            | 61311, 63974, 63977, 63979, 63980, 63981, 63983 | Llaves de vaso 1/4" / Socket wrenches 1/4" |                                                    | 4-4,5-5-6-7-8-10 mm     |     |
| 1            | 62603                                           | Carraca 1/4" / Ratchet 1/4"                |                                                    | -                       |     |
|              | 61454                                           | Alargadera 1/4" / Extension 1/4"           |                                                    | 3"                      |     |



| COD.         |                                                 | PCS.                                               |                                                    |                                         |     |
|--------------|-------------------------------------------------|----------------------------------------------------|----------------------------------------------------|-----------------------------------------|-----|
| <b>58727</b> | 1/2, 1/4                                        | 19                                                 | SERIE ESTÁNDAR / STANDARD PATTERN / SÉRIE STANDARD | 51053                                   | 3,0 |
| PCS.         | Composición / Composition / Composition         | Descripción / Description / Description            |                                                    |                                         |     |
| 7            | 60483, 60484, 60485, 60486, 60487, 60488, 60491 | Llaves de vaso 1/2" / Socket wrenches 1/2"         |                                                    | 1/2"-9/16"-19/32"-5/8"-11/16"-3/4"-7/8" |     |
| 1            | 62606                                           | Carraca 1/2" / Ratchet 1/2"                        |                                                    | -                                       |     |
| 2            | 61453, 61458                                    | Alargadera 1/2" / Extension 1/2"                   |                                                    | 3"-10"                                  |     |
| 1            | 61437                                           | Articulación universal 1/2" / Universal joint 1/2" |                                                    | -                                       |     |
| 7            | 60420, 60421, 63991, 63992, 63993, 63995, 63996 | Llaves de vaso 1/4" / Socket wrenches 1/4"         |                                                    | 5/32"-3/16"-1/4"-9/32"-5/16"-3/8"-7/16" |     |
| 1            | 62603                                           | Carraca 1/4" / Ratchet 1/4"                        |                                                    | -                                       |     |









| COD.         |          | PCS. |                                           |       |     |
|--------------|----------|------|-------------------------------------------|-------|-----|
| <b>58728</b> | 1/2, 1/4 | 19   | SERIE LARGA / LONG PATTERN / SÉRIE LONGUE | 50974 | 3,7 |

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| PCS. | Composición / Composition / Composition         | Descripción / Description / Description                     |                         |                                                                                     |   |
|------|-------------------------------------------------|-------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------|---|
| 7    | 67783, 67784, 67785, 67786, 67787, 67789, 67792 | Llaves de vaso serie larga 1/2" / Long socket wrenches 1/2" | 13-14-15-16-17-19-22 mm |    | - |
| 1    | 62606                                           | Carraca 1/2" / Ratchet 1/2"                                 | -                       |  |   |
| 2    | 61453, 61458                                    | Alargadera 1/2" / Extension 1/2"                            | 3"-10"                  |  |   |
| 1    | 61437                                           | Articulación universal 1/2" / Universal joint 1/2"          | -                       |  |   |
| 7    | 67640, 67641, 67660, 67662, 67663, 67664, 67666 | Llaves de vaso serie larga 1/4" / Long socket wrenches 1/4" | 4-4,5-5-6-7-8-10 mm     |    | - |
| 1    | 62603                                           | Carraca 1/4" / Ratchet 1/4"                                 | -                       |  |   |




**3/8"**
**10 PCS.- 3/8"**

| COD.         |  | PCS. |  |  |     |
|--------------|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|
| <b>58700</b> | 3/8                                                                               | 10   | SERIE ESTÁNDAR / STANDARD PATTERN / SÉRIE STANDARD                                | 51071                                                                               | 1,0 |






  

| PCS. | Composición / Composition / Composition                | Descripción / Description / Description |                                                             |                                                                                      |   |
|------|--------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------|---|
| 8    | 67620, 67621, 67622, 67623, 67624, 67625, 67626, 67627 | Llaves de vaso / Socket wrenches        | 1/4" - 9/32" - 5/16" - 11/32" - 3/8" - 7/16" - 1/2" - 9/16" |     | - |
| 1    | 62604                                                  | Carraca / Ratchet                       | -                                                           |   |   |
| 1    | 61447                                                  | Alargadera / Extension                  | 6"                                                          |  |   |





**12 PCS.- 3/8"**

| COD.         |  | PCS. |  |  |     |
|--------------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----|
| <b>58706</b> | 3/8                                                                                 | 12   | SERIE ESTÁNDAR / STANDARD PATTERN / SÉRIE LONGUE                                    | 51071                                                                                 | 1,2 |





  

| PCS. | Composición / Composition / Composition                | Descripción / Description / Description      |                                |                                                                                       |   |
|------|--------------------------------------------------------|----------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------|---|
| 8    | 57171, 57172, 57173, 57174, 57175, 57176, 57177, 57178 | Llaves de vaso Torx® / Torx® Socket wrenches | E8-E10-E11-E12-E14-E16-E18-E20 |    | - |
|      | 62604                                                  | Carraca / Ratchet                            | -                              |  |   |
|      | 61459                                                  | Alargadera / Extension                       | 3"                             |  |   |
| 1    | 61436                                                  | Articulación universal / Universal joint     | -                              |  |   |
|      | 61439                                                  | Mango en T / T handle                        | -                              |  |   |



| COD.         |  | PCS. |  |  |     |
|--------------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----|
| <b>58703</b> | 3/8                                                                                 | 12   | SERIE ESTÁNDAR / STANDARD PATTERN / SÉRIE STANDARD                                  | 51079                                                                                 | 1,7 |

| PCS. | Composición / Composition / Composition                | Descripción / Description / Description |                                                             |                                                                                       |   |
|------|--------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------|---|
| 8    | 67620, 67621, 67622, 67623, 67624, 67625, 67626, 67627 | Llaves de vaso / Socket wrenches        | 1/4" - 9/32" - 5/16" - 11/32" - 3/8" - 7/16" - 1/2" - 9/16" |    | - |
| 1    | 62604                                                  | Carraca / Ratchet                       | -                                                           |  |   |
| 2    | 61447, 61450                                           | Alargadera / Extension                  | 6" - 10"                                                    |  |   |
| 1    | 61439                                                  | Mango en T / T handle                   | -                                                           |  |   |







| COD.         |  | PCS. |  |  |     |
|--------------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----|
| <b>55595</b> | 3/8                                                                                 | 12   | SERIE ESTÁNDAR / STANDARD PATTERN / SÉRIE STANDARD                                  | 51071                                                                                 | 1,2 |








  

| PCS. | Composición / Composition / Composition                              | Descripción / Description / Description |                               |                                                                                       |   |
|------|----------------------------------------------------------------------|-----------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---|
| 10   | 67541, 67542, 67543, 67545, 67546, 67547, 67548, 67549, 67552, 67554 | Llaves de vaso / Socket wrenches        | 6-7-8-10-11-12-13-14-17-19 mm |    | - |
| 1    | 62604                                                                | Carraca / Ratchet                       | -                             |  |   |
| 1    | 61447                                                                | Alargadera / Extension                  | 6"                            |  |   |








**3/8"**
**13 PCS.- 3/8"**








| COD.         |         | PCS.                                    |                                                                            |   |
|--------------|------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>61342</b> | 3/8                                                                                      | 13                                      | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD                      | 0,9                                                                                 |
| PCS.         | Composición / Composition /<br>Composition                                               | Descripción / Description / Description | PCS.                                                                       |                                                                                     |
| 12           | 60440, 60441, 60442, 60443, 60444,<br>60445, 60446, 60447, 60448, 60449,<br>60450, 60451 | Llaves de vaso / Socket wrenches        | 5/16"-11/32"-3/8"-7/16"-1/2"-9/16"-<br>19/32"-5/8"-11/16"-3/4"-13/16"-7/8" |    |
| 1            | 62604                                                                                    | Carraca / Ratchet                       | -                                                                          |  |


**16 PCS.- 3/8"**

| COD.         |  | PCS.                                                 |                                                                                           |    |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>58702</b> | 3/8                                                                               | 16                                                   | SERIE LARGA / LONG<br>PATTERN / SÉRIE LONGUE                                              | 3,1                                                                                   |
| PCS.         | Composición / Composition /<br>Composition                                        | Descripción / Description / Description              | PCS.                                                                                      |                                                                                       |
| 11           | 67751, 67752, 67753, 67754, 67755,<br>67756, 67757, 67758, 67759, 67760,<br>67761 | Llaves de vaso serie larga / Long<br>socket wrenches | 5/16" - 3/8" - 7/16" - 1/2" - 9/16" -<br>19/32" - 5/8" - 11/16" - 3/4" - 13/16"<br>- 7/8" |     |
| 1            | 62604                                                                             | Carraca / Ratchet                                    | -                                                                                         |  |
| 2            | 61447, 61450                                                                      | Alargadera / Extension                               | 6" - 10"                                                                                  |  |
| 1            | 61436                                                                             | Articulación universal / Universal joint             | -                                                                                         |  |
| 1            | 61439                                                                             | Mango en T / T handle                                | -                                                                                         |  |











| COD.         |  | PCS.                                                 |                                              |  |
|--------------|-------------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------|
| <b>58701</b> | 3/8                                                                                 | 16                                                   | SERIE LARGA / LONG<br>PATTERN / SÉRIE LONGUE | 3,1                                                                                   |
| PCS.         | Composición / Composition /<br>Composition                                          | Descripción / Description / Description              | PCS.                                         |                                                                                       |
| 11           | 67726, 67728, 67729, 67730, 67731,<br>67732, 67733, 67735, 67737, 67739,<br>67740   | Llaves de vaso serie larga / Long<br>socket wrenches | 8-10-11-12-13-14-15-17-19-21-22<br>mm        |    |
| 1            | 62604                                                                               | Carraca / Ratchet                                    | -                                            |  |
| 2            | 61447, 61450                                                                        | Alargadera / Extension                               | 6" - 10"                                     |  |
| 1            | 61436                                                                               | Articulación universal / Universal joint             | -                                            |  |
| 1            | 61439                                                                               | Mango en T / T handle                                | -                                            |  |




| COD.         |  | PCS.                                     |                                                       |  |
|--------------|-------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>61959</b> | 3/8                                                                                 | 16                                       | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD | 1,9                                                                                   |
| PCS.         | Composición / Composition /<br>Composition                                          | Descripción / Description / Description  | PCS.                                                  |                                                                                       |
| 11           | 61343, 61345, 61346, 61347, 61348,<br>61349, 61350, 61352, 61354, 61356,<br>61357   | Llaves de vaso / Socket wrenches         | 8-10-11-12-13-14-15-17-19-21-22<br>mm                 |    |
| 1            | 62604                                                                               | Carraca / Ratchet                        | -                                                     |  |
| 2            | 61447, 61450                                                                        | Alargadera / Extension                   | 6" - 10"                                              |  |
| 1            | 61439                                                                               | Mango en T / T Handle                    | -                                                     |  |
| 1            | 61436                                                                               | Articulación universal / Universal joint | -                                                     |  |

## 3/8"

| COD.         |  | PCS. |  |  |     |
|--------------|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|
| <b>61962</b> | 3/8                                                                               | 16   | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD                             | 51079                                                                               | 1,9 |

| PCS. | Composición / Composition /<br>Composition                                        | Descripción / Description / Description  |  |  |
|------|-----------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 11   | 60440, 60442, 60443, 60444, 60445,<br>60446, 60447, 60448, 60449, 60450,<br>60451 | Llaves de vaso / Socket wrenches         | 5/16"-3/8"-7/16"-1/2"-9/16"-19/32"-<br>5/8"-11/16"-3/4"-13/16"-7/8"               | -                                                                                   |
| 1    | 62604                                                                             | Carraca / Ratchet                        | -                                                                                 |  |
| 2    | 61447, 61450                                                                      | Alargadera / Extension                   | 6"-10"                                                                            |  |
|      | 61439                                                                             | Mango en T / T Handle                    | -                                                                                 |  |
| 1    | 61436                                                                             | Articulación universal / Universal joint | -                                                                                 |  |






| COD.         |  | PCS. |  |  |     |
|--------------|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|
| <b>61341</b> | 3/8                                                                               | 16   | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD                             | 51079                                                                               | 1,0 |

| PCS. | Composición / Composition /<br>Composition                                                                    | Descripción / Description / Description |  |   |
|------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 15   | 61343, 61344, 61345, 61346, 61347,<br>61348, 61349, 61350, 61351, 61352,<br>61353, 61354, 61355, 61356, 61357 | Llaves de vaso / Socket wrenches        | 8-9-10-11-12-13-14-15-16-17-1-19-<br>20-21-22 mm                                   | -                                                                                     |
| 1    | 62604                                                                                                         | Carraca / Ratchet                       | -                                                                                  |  |









## 19 PCS.- 3/8"

| COD.         |  | PCS. |        |  |     |
|--------------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----|
| <b>58708</b> | 3/8                                                                                 | 19   | SERIE ESTÁNDAR Y CROWFOOT / STANDARD AND<br>CROWFOOT PATTERN / SÉRIE STANDARD ET CROWFOOT | 51079                                                                                 | 2,5 |

| PCS. | Composición / Composition /<br>Composition                | Descripción / Description / Description             |  |  |
|------|-----------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 8    | 60440, 60441, 60442, 60443, 60444,<br>60445, 60446, 60447 | Llaves de vaso / Socket wrenches                    | 5/16" - 11/32" - 3/8" - 7/16" - 1/2" -<br>9/16" - 19/32" - 5/8"                     | -                                                                                     |
| 7    | 55724, 55725, 55726, 55727, 55728,<br>55729, 55730        | Llaves Fijas Crowfoot / Open end<br>Crowfoot wrench | 3/8" - 7/16" - 1/2" - 9/16" - 5/8" -<br>11/16" - 3/4"                               | -                                                                                     |
| 1    | 62604                                                     | Carraca / Ratchet                                   | -                                                                                   |  |
| 2    | 61459, 61449                                              | Alargadera / Extension                              | 3" - 8"                                                                             |  |
| 1    | 61436                                                     | Articulación universal / Universal joint            | -                                                                                   |  |



| COD.         |  | PCS. |  |  |     |
|--------------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----|
| <b>55596</b> | 3/8                                                                                 | 19   | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD                               | 51053                                                                                 | 1,8 |







| PCS. | Composición / Composition /<br>Composition                                                             | Descripción / Description / Description  |                    |  |
|------|--------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 14   | 60439, 60440, 60441, 60442, 60443,<br>60444, 60445, 60446, 60447, 60448,<br>60449, 60450, 60451, 60452 | Llaves de vaso / Socket wrenches         | 1/4", 5/16", 11/32", 3/8", 7/16", 1/2",<br>9/16", 19/32", 5/8", 11/16", 3/4", 13/16",<br>7/8", 15/16" | -                                                                                     |
| 1    | 62604                                                                                                  | Carraca / Ratchet                        | -                                                                                                     |  |
| 2    | 61447, 61450                                                                                           | Alargadera / Extension                   | 6"-10"                                                                                                |  |
|      | 61439                                                                                                  | Mango en T / T Handle                    | -                                                                                                     |  |
| 1    | 61436                                                                                                  | Articulación universal / Universal joint | -                                                                                                     |  |













## ■ 3/8"

## ■ 21 PCS.- 3/8"








| COD.                                                  |                                                             | PCS.                                                                                                                                                                           |  |  |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>55593</b>                                          | 3/8                                                                                                                                          | 21                                                                                                                                                                             | 51071                                                                             | 1,7                                                                                 |
| SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD |                                                                                                                                              |                                                                                                                                                                                |                                                                                   |                                                                                     |
| PCS.                                                  | Composición / Composition / Composition                                                                                                      | Descripción / Description / Description                                                                                                                                        |                                                                                   |                                                                                     |
| 19                                                    | 67539, 67540, 61343, 61344, 61345,<br>61346, 61347, 61348, 61349, 61350,<br>61351, 61352, 61353, 61354, 61355,<br>61356, 61357, 67560, 67561 | Llaves de vaso / Socket wrenches 6-7-8-9-10-11-12-13-14-15-16-17-18-<br>19-20-21-22-23-24 mm  |                                                                                   |                                                                                     |
| 1                                                     | 62604                                                                                                                                        | Carraca / Ratchet                                                                           |                                                                                   |                                                                                     |
|                                                       | 61447                                                                                                                                        | Alargadera / Extension 6"                                                                   |                                                                                   |                                                                                     |



## ■ 25 PCS.- 3/8"










| COD.                                                  |                                               | PCS.                                                                                                                                                                          |  |  |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>58948</b>                                          | 3/8"                                                                                                                           | 25                                                                                                                                                                            | 51053                                                                             | 2,9                                                                                 |
| SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD |                                                                                                                                |                                                                                                                                                                               |                                                                                   |                                                                                     |
| PCS.                                                  | Composición / Composition / Composition                                                                                        | Descripción / Description / Description                                                                                                                                       |                                                                                   |                                                                                     |
| 19                                                    | 67539, 67540, 61343, 61344, 61345,<br>61346, 61347, 61348, 61349, 61350,<br>61351, 61352, 61353, 61354, 61355,<br>61356, 61357 | Llaves de vaso / Socket wrench 6-7-8-9-10-11-12-13-14-15-16-17-18-<br>19-20-21-22-23-24 mm  |                                                                                   |                                                                                     |
| 1                                                     | 62604                                                                                                                          | Carraca / Ratchet                                                                        |                                                                                   |                                                                                     |
| 3                                                     | 62732, 61447, 61449                                                                                                            | Alargadera / Extension 2" - 6" - 8" (200 mm)                                             |                                                                                   |                                                                                     |
|                                                       | 61436                                                                                                                          | Articulación universal / Universal joint                                                 |                                                                                   |                                                                                     |
| 1                                                     | 61439                                                                                                                          | Mango corredizo en T / Sliding T<br>handle                                               |                                                                                   |                                                                                     |



| COD.                                                                                      |       | PCS.                                                                                                                                                          |  |  |
|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>58707</b>                                                                              | 3/8                                                                                      | 25                                                                                                                                                            | 51053                                                                               | 2,5                                                                                   |
| SERIE ESTÁNDAR Y CROWFOOT / STANDARD AND<br>CROWFOOT PATTERN / SÉRIE STANDARD ET CROWFOOT |                                                                                          |                                                                                                                                                               |                                                                                     |                                                                                       |
| PCS.                                                                                      | Composición / Composition / Composition                                                  | Descripción / Description / Description                                                                                                                       |                                                                                     |                                                                                       |
| 12                                                                                        | 61343, 61344, 61345, 61346, 61347,<br>61348, 61349, 61350, 61351, 61352,<br>61353, 61354 | Llaves de vaso / Socket wrenches 8-9-10-11-12-13-14-15-16-17-18-<br>19 mm  |                                                                                     |                                                                                       |
| 9                                                                                         | 55710, 55711, 55712, 55713, 55714,<br>55715, 55716, 55717, 55718                         | Llaves Fijas Crowfoot / Open end<br>Crowfoot wrench 10-11-12-13-14-15-16-17-19 mm                                                                             |                                                                                     |                                                                                       |
| 1                                                                                         | 62604                                                                                    | Carraca / Ratchet                                                        |                                                                                     |                                                                                       |
| 2                                                                                         | 61459, 61449                                                                             | Alargadera / Extension 3" - 8"                                           |                                                                                     |                                                                                       |
| 1                                                                                         | 61436                                                                                    | Articulación universal / Universal joint                                 |                                                                                     |                                                                                       |













## ■ 26 PCS.- 3/8"









| COD.                                                  |                                                           | PCS.                                                                                                                                                                             |  |  |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>55594</b>                                          | 3/8                                                                                                                                          | 26                                                                                                                                                                               | 51053                                                                               | 3,0                                                                                   |
| SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD |                                                                                                                                              |                                                                                                                                                                                  |                                                                                     |                                                                                       |
| PCS.                                                  | Composición / Composition / Composition                                                                                                      | Descripción / Description / Description                                                                                                                                          |                                                                                     |                                                                                       |
| 19                                                    | 67541, 67542, 67543, 67544, 67545,<br>67546, 67547, 67548, 67549, 67550,<br>67551, 67552, 67553, 67554, 67555,<br>67556, 67557, 67558, 67559 | Llaves de vaso / Socket wrenches 6-7-8-9-10-11-12-13-14-15-16-17-18-<br>19-20-21-22-23-24 mm  |                                                                                     |                                                                                       |
| 1                                                     | 62604                                                                                                                                        | Carraca / Ratchet                                                                           |                                                                                     |                                                                                       |
| 2                                                     | 61447, 61450                                                                                                                                 | Alargadera / Extension 6"-10"                                                               |                                                                                     |                                                                                       |
|                                                       | 61439                                                                                                                                        | Mango en T / T Handle                                                                       |                                                                                     |                                                                                       |
| 1                                                     | 61436                                                                                                                                        | Articulación universal / Universal joint                                                    |                                                                                     |                                                                                       |
| 2                                                     | 61460, 61461                                                                                                                                 | Llaves de vaso para bujías / Spark<br>plug socket 16 mm-21 mm                               |                                                                                     |                                                                                       |









**3/8"**
**30 PCS.- 3/8"**

| COD.                                                  |  | PCS.                                            |  |  |
|-------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>58705</b>                                          | 3/8                                                                               | 30                                              | 51053                                                                             | 2,4                                                                                 |
| SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD |                                                                                   |                                                 |                                                                                   |                                                                                     |
| PCS.                                                  | Composición / Composition / Composition                                           | Descripción / Description / Description         |                                                                                   |                                                                                     |
| 1                                                     | 62604                                                                             | Carraca / Ratchet                               | -                                                                                 |  |
|                                                       | 61459                                                                             | Alargadera / Extension                          | 3"                                                                                |  |
| 10                                                    | 66771, 55701, 66772, 66773, 55702, 66774, 66775, 66776, 55703, 66777              | Punta hexagonal con vaso / Hex bit socket       | 3-3,5-4-5-5,5-6-7-8-9,5-10 mm                                                     |  |
| 3                                                     | 66760, 66761, 66762                                                               | Punta plana con vaso / Flat bit socket          | 5,5 x 1 - 6,5 x 1,2 - 8 x 1,2                                                     |  |
| 9                                                     | 66788, 66789, 66790, 66791, 66792, 66793, 66794, 66795, 66796                     | Punta Torx® con vaso / Torx® bit socket         | T10-T15-T20-T25-T27-T30-T40-T45-T50                                               |  |
| 3                                                     | 66765, 66766, 66767                                                               | Punta Phillips® con vaso / Phillips® bit socket | PH1-PH2-PH3                                                                       |  |
|                                                       | 66768, 66769, 66770                                                               | Punta Pozidriv con vaso / Pozidriv bit socket   | PZ1 - PZ2 - PZ3                                                                   |  |


**42 PCS.- 3/8"**







| COD.                                                                             |  | PCS.                                              |  |    |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>61792</b>                                                                     | 3/8                                                                               | 42                                                | 50974                                                                             | 5,5                                                                                   |
| SERIE ESTÁNDAR Y LARGA / STANDARD AND LONG<br>PATTERN / SÉRIE STANDARD ET LONGUE |                                                                                   |                                                   |                                                                                   |                                                                                       |
| PCS.                                                                             | Composición / Composition / Composition                                           | Descripción / Description / Description           |                                                                                   |                                                                                       |
| 11                                                                               | 61344, 61345, 61346, 61347, 61348, 61349, 61350, 61351, 61352, 61353, 61354       | Llaves de vaso / Socket wrenches                  | 9-10-11-12-13-14-15-16-17-18-19 mm                                                |                                                                                       |
| 7                                                                                | 60442, 60443, 60444, 60445, 60447, 60448, 60449                                   |                                                   | 3/8"-7/16"-1/2"-9/16"-5/8"-11/16"-3/4"                                            |    |
| 11                                                                               | 67727, 67728, 67729, 67730, 67731, 67732, 67733, 67734, 67735, 67736, 67737       | Llaves de vaso serie larga / Long socket wrenches | 9-10-11-12-13-14-15-16-17-18-19 mm                                                |                                                                                       |
| 7                                                                                | 67752, 67753, 67754, 67755, 67757, 67758, 67759                                   |                                                   | 3/8"-7/16"-1/2"-9/16"-5/8"-11/16"-3/4"                                            |                                                                                       |
| 1                                                                                | 62604                                                                             | Carraca / Ratchet                                 | -                                                                                 |  |
| 3                                                                                | 61459, 61447, 61449                                                               | Alargadera / Extension                            | 3"-6"-8"                                                                          |  |
| 1                                                                                | 61436                                                                             | Articulación universal / Universal joint          | -                                                                                 |  |
|                                                                                  | 65875                                                                             | Mango articulado / Hinged handle                  | -                                                                                 |  |


**1/2"**
**11 PCS.- 1/2"**







| COD.                                         |  | PCS.                                              |  |  |
|----------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>58714</b>                                 | 1/2                                                                                 | 11                                                | 51053                                                                               | 2,5                                                                                   |
| SERIE LARGA / LONG<br>PATTERN / SÉRIE LONGUE |                                                                                     |                                                   |                                                                                     |                                                                                       |
| PCS.                                         | Composición / Composition / Composition                                             | Descripción / Description / Description           |                                                                                     |                                                                                       |
| 9                                            | 67805, 67806, 67807, 67808, 67809, 67810, 67811, 67812, 67813                       | Llaves de vaso serie larga / Long socket wrenches | 3/8"-7/16"-1/2"-9/16"-5/8"-11/16"-3/4"-13/16"-7/8"                                  |    |
| 1                                            | 62606                                                                               | Carraca / Ratchet                                 | -                                                                                   |  |
|                                              | 61455                                                                               | Alargadera / Extension                            | 5"                                                                                  |  |









## 1/2"

| COD.         |  | PCS.                                            |  |  |                                         |                                                                                     |   |
|--------------|-----------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------|---|
| <b>58720</b> | 1/2                                                                               | 11                                              | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD                             | 51079                                                                               | 1,8                                     |                                                                                     |   |
| PCS.         | Composición / Composition /<br>Composition                                        | Descripción / Description / Description         |                                                                                   |                                                                                     |                                         |                                                                                     |   |
| 9            | 57179, 57180, 57181, 57182, 57183,<br>57184, 57185, 57186, 57187                  | Llaves de vaso Torx® / Torx® Socket<br>wrenches |                                                                                   |                                                                                     | E10-E11-E12-E14-E16-E18-E20-<br>E22-E24 |    | - |
| 1            | 62606                                                                             | Carraca / Ratchet                               |                                                                                   |                                                                                     | -                                       |  |   |
| 1            | 61455                                                                             | Alargadera / Extension                          |                                                                                   |                                                                                     | 5"                                      |  |   |

## 12 PCS.- 1/2"








| COD.         |  | PCS.                                    |  |  |                               |                                                                                     |   |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------|---|
| <b>58711</b> | 1/2                                                                               | 12                                      | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD                             | 51079                                                                               | 1,7                           |                                                                                     |   |
| PCS.         | Composición / Composition /<br>Composition                                        | Descripción / Description / Description |                                                                                   |                                                                                     |                               |                                                                                     |   |
| 10           | 61382, 61383, 61384, 61385, 61386,<br>61387, 61388, 61389, 61391, 61394           | Llaves de vaso / Socket wrenches        |                                                                                   |                                                                                     | 10-11-12-13-14-15-17-19-22 mm |    | - |
| 1            | 62606                                                                             | Carraca / Ratchet                       |                                                                                   |                                                                                     | -                             |  |   |
| 1            | 61455                                                                             | Alargadera / Extension                  |                                                                                   |                                                                                     | 5"                            |  |   |



| COD.         |  | PCS.                                                 |  |  |                                  |                                                                                       |   |
|--------------|-------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------|---|
| <b>58713</b> | 1/2                                                                                 | 12                                                   | SERIE LARGA / LONG<br>PATTERN / SÉRIE LONGUE                                        | 51053                                                                                 | 2,6                              |                                                                                       |   |
| PCS.         | Composición / Composition /<br>Composition                                          | Descripción / Description / Description              |                                                                                     |                                                                                       |                                  |                                                                                       |   |
| 10           | 67780, 67781, 67782, 67783, 67784,<br>67785, 67786, 67787, 67789, 67792             | Llaves de vaso serie larga / Long<br>socket wrenches |                                                                                     |                                                                                       | 10-11-12-13-14-15-16-17-19-22 mm |    | - |
| 1            | 62606                                                                               | Carraca / Ratchet                                    |                                                                                     |                                                                                       | -                                |  |   |
| 1            | 61455                                                                               | Alargadera / Extension                               |                                                                                     |                                                                                       | 5"                               |  |   |

| COD.         |  | PCS.                                    |  |  |                                                                                |                                                                                       |   |
|--------------|-------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---|
| <b>58712</b> | 1/2                                                                                 | 12                                      | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD                               | 51079                                                                                 | 1,8                                                                            |                                                                                       |   |
| PCS.         | Composición / Composition /<br>Composition                                          | Descripción / Description / Description |                                                                                     |                                                                                       |                                                                                |                                                                                       |   |
| 10           | 60481, 60482, 60483, 60484, 60485,<br>60486, 60487, 60488, 60490, 60491             | Llaves de vaso / Socket wrenches        |                                                                                     |                                                                                       | 3/8" - 7/16" - 1/2" - 9/16" - 19/32" - 5/8" -<br>11/16" - 3/4" - 13/16" - 7/8" |    | - |
| 1            | 62606                                                                               | Carraca / Ratchet                       |                                                                                     |                                                                                       | -                                                                              |  |   |
| 1            | 61455                                                                               | Alargadera / Extension                  |                                                                                     |                                                                                       | 5"                                                                             |  |   |

## 16 PCS.- 1/2"



| COD.         |  | PCS.                                              |        |  |                                                                        |                                                                                       |   |
|--------------|-------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---|
| <b>58723</b> | 1/2                                                                                 | 16                                                | SERIE ESTÁNDAR Y CROWFOOT / STANDARD AND<br>CROWFOOT PATTERN / SÉRIE STANDARD ET CROWFOOT | 51053                                                                                 | 2,8                                                                    |                                                                                       |   |
| PCS.         | Composición / Composition /<br>Composition                                          | Descripción / Description / Description           |                                                                                           |                                                                                       |                                                                        |                                                                                       |   |
| 8            | 60487, 60488, 60489, 60490, 60491,<br>60492, 60495, 60497                           | Llaves de vaso / Socket wrenches                  |                                                                                           |                                                                                       | 11/16" - 3/4" - 25/32" - 13/16" - 7/8" -<br>15/16" - 1.1/16" - 1.3/16" |    | - |
| 4            | 57251, 57253, 57255, 57257                                                          | Llave fija Crowfoot / Open end<br>Crowfoot wrench |                                                                                           |                                                                                       | 15/16" - 1.1/16" - 1.3/16" - 1.5/16"                                   | -                                                                                     |   |
| 1            | 62606                                                                               | Carraca / Ratchet                                 |                                                                                           |                                                                                       | -                                                                      |  |   |
| 2            | 61453, 61458                                                                        | Alargadera / Extension                            |                                                                                           |                                                                                       | 3"-10"                                                                 |  |   |
| 1            | 61437                                                                               | Articulación universal / Universal joint          |                                                                                           |                                                                                       | -                                                                      |  |   |







## ■ 1/2"



## ■ 17 PCS.- 1/2"



| COD.         |  | PCS. |                                                       |  |
|--------------|-----------------------------------------------------------------------------------|------|-------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>61796</b> | 1/2                                                                               | 17   | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD | 2,0                                                                                |



| PCS. | Composición / Composition /<br>Composition                                                                              | Descripción / Description / Description |                                                        |                                                                                     |   |
|------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------|---|
| 16   | 61802, 61803, 61804, 61805, 61806,<br>61807, 61808, 61809, 61810, 61811,<br>61812, 61814, 61816, 61819, 61822,<br>61823 | Llaves de vaso / Socket wrenches        | 10-11-12-13-14-15-16-17-18-19-20-<br>22-24-27-30-32 mm |    | - |
| 1    | 62606                                                                                                                   | Carraca / Ratchet                       | -                                                      |  |   |



| COD.         |  | PCS. |                                                       |  |
|--------------|-----------------------------------------------------------------------------------|------|-------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>61798</b> | 1/2                                                                               | 17   | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD | 2,0                                                                                |

| PCS. | Composición / Composition /<br>Composition                                                                              | Descripción / Description / Description |                                                                                                          |                                                                                      |   |
|------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---|
| 16   | 60460, 60461, 60462, 60463, 60464,<br>60466, 60467, 60468, 60470, 60471,<br>60472, 60474, 60475, 60476, 60477,<br>60478 | Llaves de vaso / Socket wrenches        | 5/16"-3/8"-7/16"-1/2"-9/16"-5/8"-<br>11/16"-3/4"-13/16"-7/8"-15/16"-1"-<br>1.1/16"-1.1/8"-1.3/16"-1.1/4" |     | - |
| 1    | 62606                                                                                                                   | Carraca / Ratchet                       | -                                                                                                        |  |   |

| COD.         |  | PCS. |                                                       |  |
|--------------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>61797</b> | 1/2                                                                                 | 17   | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD | 2,0                                                                                  |





| PCS. | Composición / Composition /<br>Composition                                                                              | Descripción / Description / Description |                                                        |                                                                                       |   |
|------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------|---|
| 16   | 61382, 61383, 61384, 61385, 61386,<br>61387, 61388, 61389, 61390, 61391,<br>61392, 61394, 61396, 61399, 61402,<br>61403 | Llaves de vaso / Socket wrenches        | 10-11-12-13-14-15-16-17-18-19-20-<br>22-24-27-30-32 mm |    | - |
| 1    | 62606                                                                                                                   | Carraca / Ratchet                       | -                                                      |  |   |

| COD.         |  | PCS. |                                                       |  |
|--------------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>61799</b> | 1/2                                                                                 | 17   | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD | 2,0                                                                                  |

| PCS. | Composición / Composition /<br>Composition                                                                              | Descripción / Description / Description |                                                                                                          |                                                                                       |   |
|------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---|
| 16   | 60480, 60481, 60482, 60483, 60484,<br>60486, 60487, 60488, 60490, 60491,<br>60492, 60494, 60495, 60496, 60497,<br>60498 | Llaves de vaso / Socket wrenches        | 5/16"-3/8"-7/16"-1/2"-9/16"-5/8"-<br>11/16"-3/4"-13/16"-7/8"-15/16"-1"-<br>1.1/16"-1.8/8"-1.3/16"-1.1/4" |    | - |
| 1    | 62606                                                                                                                   | Carraca / Ratchet                       | -                                                                                                        |  |   |








## ■ 18 PCS.- 1/2"

| COD.         |  | PCS. |                                                                                           |  |
|--------------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>58722</b> | 1/2                                                                                 | 18   | SERIE ESTÁNDAR Y CROWFOOT / STANDARD AND<br>CROWFOOT PATTERN / SÉRIE STANDARD ET CROWFOOT | 4,0                                                                                   |









| PCS. | Composición / Composition /<br>Composition                       | Descripción / Description / Description           |                               |                                                                                       |   |
|------|------------------------------------------------------------------|---------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---|
| 9    | 61389, 61390, 61391, 61392, 61393,<br>61394, 61395, 61399, 61402 | Llaves de vaso / Socket wrenches                  | 17-18-19-20-21-22-23-27-30 mm |    | - |
| 5    | 57226, 57228, 57231, 57234, 57236                                | Llave fija Crowfoot / Open end<br>Crowfoot wrench | 22-24-27-30-32 mm             |                                                                                       |   |
| 1    | 62606                                                            | Carraca / Ratchet                                 | -                             |  |   |
| 2    | 61453, 61458                                                     | Alargadera / Extension                            | 3"-10"                        |  |   |
| 1    | 61437                                                            | Articulación universal / Universal joint          | -                             |  |   |



## 1/2"








| COD.         |                       | PCS.                                     |                                                       |             |  |
|--------------|--------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>58715</b> | 1/2                                                                                                    | 18                                       | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD | 51053                                                                                        | 3,3                                                                                 |
| PCS.         | Composición / Composition /<br>Composition                                                             | Descripción / Description / Description  |                                                       |                                                                                              |                                                                                     |
| 14           | 60460, 60461, 60462, 60463, 60464,<br>60465, 60466, 60459, 60467, 60468,<br>60469, 60470, 60471, 60472 | Llaves de vaso / Socket wrenches         |                                                       | 5/16"-3/8"-7/16"-1/2"-9/16"-19/32"-<br>5/8"-21/32"-11/16"-3/4"-25/32"-<br>13/16"-7/8"-15/16" |  - |
| 1            | 62606                                                                                                  | Carraca / Ratchet                        |                                                       | -                                                                                            |  |
| 2            | 61455, 61458                                                                                           | Alargadera / Extension                   |                                                       | 5"-10"                                                                                       |  |
| 1            | 61437                                                                                                  | Articulación universal / Universal joint |                                                       | -                                                                                            |  |

## 19 PCS.- 1/2"








| COD.         |                       | PCS.                                     |                                                       |  |    |
|--------------|--------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>55668</b> | 1/2                                                                                                    | 19                                       | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD | 51071                                                                             | 3,5                                                                                   |
| PCS.         | Composición / Composition /<br>Composition                                                             | Descripción / Description / Description  |                                                       |                                                                                   |                                                                                       |
| 14           | 55795, 55796, 55797, 55798, 55799,<br>55801, 55803, 55804, 55805, 55806,<br>55807, 55808, 55809, 55810 | Splines                                  |                                                       | M12, M14, M15, M16, M18, M20,<br>M22, M24, M25, M26, M28, M30,<br>M34, M38        |  -  |
| 1            | 62606                                                                                                  | Carraca / Ratchet                        |                                                       | -                                                                                 |  |
| 2            | 61455, 61458                                                                                           | Alargadera / Extension                   |                                                       | 5"-10"                                                                            |  |
| 1            | 61440                                                                                                  | Mango en T / T Handle                    |                                                       | -                                                                                 |  |
| 1            | 61437                                                                                                  | Articulación universal / Universal joint |                                                       | -                                                                                 |  |



## 20 PCS.- 1/2"

| COD.         |                                      | PCS.                                     |                                                       |  |  |
|--------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>55599</b> | 1/2                                                                                                                     | 20                                       | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD | 51053                                                                               | 3,5                                                                                   |
| PCS.         | Composición / Composition /<br>Composition                                                                              | Descripción / Description / Description  |                                                       |                                                                                     |                                                                                       |
| 16           | 61800, 61801, 61802, 61803, 61804,<br>61805, 61806, 61807, 61808, 61809,<br>61810, 61811, 61813, 61814, 61815,<br>61816 | Llaves de vaso / Socket wrenches         |                                                       | 8-9-10-11-12-13-14-15-16-17-18-19-<br>21-22-23-24 mm                                |  - |
| 1            | 62606                                                                                                                   | Carraca / Ratchet                        |                                                       | -                                                                                   |  |
| 2            | 61455, 61458                                                                                                            | Alargadera / Extension                   |                                                       | 5"-10"                                                                              |  |
| 1            | 61437                                                                                                                   | Articulación universal / Universal joint |                                                       | -                                                                                   |  |











| COD.         |                                      | PCS.                                     |                                                       |  |  |
|--------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>55600</b> | 1/2                                                                                                                     | 20                                       | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD | 51079                                                                               | 3,0                                                                                   |
| PCS.         | Composición / Composition /<br>Composition                                                                              | Descripción / Description / Description  |                                                       |                                                                                     |                                                                                       |
| 16           | 61380, 61381, 61382, 61383, 61384,<br>61385, 61386, 61387, 61388, 61389,<br>61390, 61391, 61393, 61394, 61395,<br>61396 | Llaves de vaso / Socket wrenches         |                                                       | 8-9-10-11-12-13-14-15-16-17-18-19-<br>21-22-23-24 mm                                |  - |
| 1            | 62606                                                                                                                   | Carraca / Ratchet                        |                                                       | -                                                                                   |  |
| 2            | 61455, 61458                                                                                                            | Alargadera / Extension                   |                                                       | 5"-10"                                                                              |  |
| 1            | 61437                                                                                                                   | Articulación universal / Universal joint |                                                       | -                                                                                   |  |











## ■ 1/2"

## ■ 21 PCS.- 1/2"









| COD.                                                  |                               | PCS.                                     |  |  |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>55601</b>                                          | 1/2                                                                                                            | 21                                       | 51053                                                                             | 4,0                                                                                 |
| SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD |                                                                                                                |                                          |                                                                                   |                                                                                     |
| PCS.                                                  | Composición / Composition / Composition                                                                        | Descripción / Description / Description  |                                                                                   |                                                                                     |
| 16                                                    | 61802, 61803, 61804, 61805, 61806, 61807, 61808, 61809, 61810, 61811, 61813, 61814, 61816, 61819, 61822, 61823 | Llaves de vaso / Socket wrenches         | 10-11-12-13-14-15-16-17-18-19-21-22-24-27-30-32 mm                                |    |
| 1                                                     | 62606                                                                                                          | Carraca / Ratchet                        | -                                                                                 |  |
| 2                                                     | 61455, 61458                                                                                                   | Alargadera / Extension                   | 5"-10"                                                                            |  |
|                                                       | 61440                                                                                                          | Mango en T / T Handle                    | -                                                                                 |  |
| 1                                                     | 61437                                                                                                          | Articulación universal / Universal joint | -                                                                                 |  |



## ■ 25 PCS.- 1/2"

| COD.                                                  |                                                           | PCS.                                     |  |    |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>61960</b>                                          | 1/2                                                                                                                                        | 25                                       | 51053                                                                             | 4,5                                                                                   |
| SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD |                                                                                                                                            |                                          |                                                                                   |                                                                                       |
| PCS.                                                  | Composición / Composition / Composition                                                                                                    | Descripción / Description / Description  |                                                                                   |                                                                                       |
| 20                                                    | 61382, 61383, 61384, 61385, 61386, 61387, 61388, 61389, 61390, 61391, 61392, 61393, 61394, 61395, 61396, 61398, 61399, 61400, 61402, 61403 | Llaves de vaso / Socket wrenches         | 10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-26-27-28-30-32 mm                    |    |
| 1                                                     | 62606                                                                                                                                      | Carraca / Ratchet                        | -                                                                                 |  |
| 2                                                     | 61455, 61458                                                                                                                               | Alargadera / Extension                   | 5"-10"                                                                            |  |
|                                                       | 61440                                                                                                                                      | Mango en T / T Handle                    | -                                                                                 |  |
| 1                                                     | 61437                                                                                                                                      | Articulación universal / Universal joint | -                                                                                 |  |








| COD.                                                  |                                                         | PCS.                                     |                                           |  |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>61963</b>                                          | 1/2                                                                                                                                        | 25                                       | 51053                                                                                                                        | 4,5                                                                                   |
| SÉRIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD |                                                                                                                                            |                                          |                                                                                                                              |                                                                                       |
| PCS.                                                  | Composición / Composition / Composition                                                                                                    | Descripción / Description / Description  |                                                                                                                              |                                                                                       |
| 20                                                    | 60480, 60481, 60482, 60483, 60484, 60485, 60486, 60479, 60487, 60488, 60489, 60490, 60491, 60492, 60493, 60494, 60495, 60496, 60497, 60498 | Llaves de vaso / Socket wrenches         | 5/16"-3/8"-7/16"-1/2"-9/16"-19/32"-5/8"-21/32"-11/16"-3/4"-25/32"-13/16"-7/8"-15/16"-31/32"-1"-1.1/16"-1.1/8"-1.3/16"-1.1/4" |    |
| 1                                                     | 62606                                                                                                                                      | Carraca / Ratchet                        | -                                                                                                                            |  |
| 2                                                     | 61455, 61458                                                                                                                               | Alargadera / Extension                   | 5"-10"                                                                                                                       |  |
|                                                       | 61440                                                                                                                                      | Mango en T / T Handle                    | -                                                                                                                            |  |
| 1                                                     | 61437                                                                                                                                      | Articulación universal / Universal joint | -                                                                                                                            |  |

| COD.                                                  |  | PCS. |  |  |
|-------------------------------------------------------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>55602</b>                                          | 1/2                                                                                 | 25   | 51053                                                                               | 4,0                                                                                   |
| SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD |                                                                                     |      |                                                                                     |                                                                                       |









## 1/2"

| PCS. | Composición / Composition / Composition                                                                                                           | Descripción / Description / Description  |                                                                   |                                                                                     |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 21   | 61382, 61383, 61384, 61385, 61386, 61387, 61388, 61389, 61390, 61391, 61392, 61393, 61394, 61395, 61396, 61397, 61398, 61399, 61400, 61402, 61403 | Llaves de vaso / Socket wrenches         | 10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-30-32 mm |    |
|      | 62606                                                                                                                                             | Carraca / Ratchet                        | -                                                                 |  |
| 1    | 61455                                                                                                                                             | Alargadera / Extension                   | 5"                                                                |  |
|      | 61440                                                                                                                                             | Mango en T / T Handle                    | -                                                                 |  |
|      | 61437                                                                                                                                             | Articulación universal / Universal joint | -                                                                 |  |

## 26 PCS.- 1/2"







| COD.         | AF<br>inch | PCS. |                                                       | Kg    |
|--------------|------------|------|-------------------------------------------------------|-------|
| <b>58716</b> | 1/2        | 26   | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD | 50974 |

| PCS. | Composición / Composition / Composition                                                                               | Descripción / Description / Description  |                                                                                                                              |                                                                                       |
|------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 20   | 60460, 60461, 60462, 60463, 60464, 60465, 60466, 60469, 60470, 60471, 60472, 60473, 60474, 60475, 60476, 60477, 60478 | Llaves de vaso / Socket wrenches         | 5/16"-3/8"-7/16"-1/2"-9/16"-19/32"-5/8"-21/32"-11/16"-3/4"-25/32"-13/16"-7/8"-15/16"-31/32"-1"-1.1/16"-1.1/8"-1.3/16"-1.1/4" |      |
| 1    | 62606                                                                                                                 | Carraca / Ratchet                        | -                                                                                                                            |    |
| 2    | 61455, 61458                                                                                                          | Alargadera / Extension                   | 5"-10"                                                                                                                       |   |
|      | 61440                                                                                                                 | Mango en T / T Handle                    | -                                                                                                                            |  |
| 1    | 61437                                                                                                                 | Articulación universal / Universal joint | -                                                                                                                            |  |
|      | 61434                                                                                                                 | Berbiquí / Speeder Handle                | -                                                                                                                            |  |









## 28 PCS.- 1/2"

| COD.         | AF<br>inch | PCS. |                                                       | Kg    |
|--------------|------------|------|-------------------------------------------------------|-------|
| <b>55597</b> | 1/2        | 28   | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD | 50974 |

| PCS. | Composición / Composition / Composition                                                                                                                  | Descripción / Description / Description  |                                                                    |                                                                                       |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 22   | 61800, 61801, 61802, 61803, 61804, 61805, 61806, 61807, 61808, 61809, 61810, 61811, 61813, 61814, 61815, 61816, 61818, 61819, 61820, 61821, 61822, 61823 | Llaves de vaso / Socket wrenches         | 8-9-10-11-12-13-14-15-16-17-18-19-21-22-23-24-26-27-28-29-30-32 mm |    |
| 1    | 62606                                                                                                                                                    | Carraca / Ratchet                        | -                                                                  |  |
| 2    | 61455, 61458                                                                                                                                             | Alargadera / Extension                   | 5"-10"                                                             |  |
|      | 61440                                                                                                                                                    | Mango en T / T Handle                    | -                                                                  |  |
| 1    | 61437                                                                                                                                                    | Articulación universal / Universal joint | -                                                                  |  |
|      | 61434                                                                                                                                                    | Berbiquí / Speeder handle                | -                                                                  |  |











| COD.         | AF<br>inch | PCS. |                                                       | Kg    |
|--------------|------------|------|-------------------------------------------------------|-------|
| <b>55598</b> | 1/2        | 28   | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD | 50974 |

| PCS. | Composición / Composition / Composition                                                                                                                  | Descripción / Description / Description  |                                                                    |                                                                                       |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 22   | 61380, 61381, 61382, 61383, 61384, 61385, 61386, 61387, 61388, 61389, 61390, 61391, 61393, 61394, 61395, 61396, 61398, 61399, 61400, 61401, 61402, 61403 | Llaves de vaso / Socket wrenches         | 8-9-10-11-12-13-14-15-16-17-18-19-21-22-23-24-26-27-28-29-30-32 mm |    |
| 1    | 62606                                                                                                                                                    | Carraca / Ratchet                        | -                                                                  |  |
| 2    | 61455, 61458                                                                                                                                             | Alargadera / Extension                   | 5"-10"                                                             |  |
|      | 61440                                                                                                                                                    | Mango en T / T Handle                    | -                                                                  |  |
| 1    | 61437                                                                                                                                                    | Articulación universal / Universal joint | -                                                                  |  |
|      | 61434                                                                                                                                                    | Berbiquí / Speeder handle                | -                                                                  |  |











## ■ 1/2"

## ■ 30 PCS.- 1/2"

| COD.         |               | PCS.                                            |                                                       |   |
|--------------|------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>58721</b> | 1/2                                                                                            | 30                                              | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD | 5,0                                                                                 |
| PCS.         | Composición / Composition / Composition                                                        | Descripción / Description / Description         |                                                       |                                                                                     |
| 1            | 62606                                                                                          | Carraca / Ratchet                               |                                                       |  |
|              | 61455                                                                                          | Alargadera / Extension                          |                                                       |  |
| 10           | 66807, 66808, 66809, 66810, 66811,<br>66812, 66813, 55706, 66814, 55708<br>55704, 55705, 55707 | Punta hexagonal con vaso / Hex bit socket       | 4-5-6-7-8-10-12-13-14-17 mm<br>7/32"-3/8"-3/4"        |  |
| 3            | 66801, 66802, 66803                                                                            | Punta plana con vaso / Flat bit socket          | 8 x 1,2 - 10 x 1,6 - 12 x 2                           |  |
|              | 66804, 66805, 66806                                                                            | Punta Phillips® con vaso / Phillips® bit socket | PH2-PH3-PH4                                           |  |
| 9            | 66830, 66831, 66832, 66833, 66834,<br>66835, 66836, 66837, 56895                               | Punta Torx® con vaso / Torx® bit socket         | T20-T25-T27-T30-T40-T45-T50-T55-T60                   |  |













## ■ 35 PCS.- 1/2"

| COD.         |                                                             | PCS.                                     |                                                                                                                                   |    |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>55603</b> | 1/2                                                                                                                                          | 35                                       | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD                                                                             | 50974<br>6,0                                                                          |
| PCS.         | Composición / Composition / Composition                                                                                                      | Descripción / Description / Description  |                                                                                                                                   |                                                                                       |
| 11           | 61802, 61803, 61805, 61806, 61809,<br>61811, 61814, 61816, 61819, 61822,<br>61823                                                            | 10-11-13-14-17-19-22-24-27-30-<br>32 mm  |                                                                                                                                   |    |
| 19           | 60460, 60461, 60459, 60462, 60463,<br>60464, 60465, 60466, 60467, 60468,<br>60469, 60470, 60471, 60472, 60474,<br>60475, 60476, 60477, 60478 | Llaves de vaso / Socket wrenches         | 5/16"-3/8"-7/16"-1/2"-9/16"-19/32"-<br>5/8"-21/32"-11/16"-3/4"-25/32"-<br>13/16"-7/8"-15/16"-1"-1.1/16"-1.1/8"-<br>1.3/16"-1.1/4" |    |
| 1            | 62606                                                                                                                                        | Carraca / Ratchet                        |                                                                                                                                   |  |
| 2            | 61455, 61458                                                                                                                                 | Alargadera / Extension                   |                                                                                                                                   |  |
|              | 61437                                                                                                                                        | Articulación universal / Universal joint |                                                                                                                                   |  |
| 1            | 61434                                                                                                                                        | Berbiquí / Speeder handle                |                                                                                                                                   |  |



## ■ 41 PCS.- 1/2"

| COD.         |                                                    | PCS.                                              |                                                                                                    |  |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>61793</b> | 1/2                                                                                                                                   | 41                                                | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD                                              | 50974<br>5,5                                                                          |
| PCS.         | Composición / Composition / Composition                                                                                               | Descripción / Description / Description           |                                                                                                    |                                                                                       |
| 18           | 61382, 61383, 61384, 61385, 61386,<br>61387, 61388, 61389, 61390, 61391,<br>61392, 61393, 61394, 61395, 61396,<br>61399, 61402, 61403 | Llaves de vaso / Socket wrenches                  | 10-11-12-13-14-15-16-17-18-19-20-<br>21-22-23-24-27-30-32 mm                                       |    |
| 15           | 60481, 60482, 60483, 60484, 60486,<br>60487, 60488, 60490, 60491, 60492,<br>60494, 60495, 60496, 60497, 60498                         |                                                   | 3/8"-7/16"-1/2"-9/16"-5/8"-11/16"-<br>3/4"-13/16"-7/8"-15/16"-1"-1.1/16"-<br>1.1/8"-1.3/16"-1.1/4" |    |
| 1            | 62606                                                                                                                                 | Carraca / Ratchet                                 |                                                                                                    |  |
| 2            | 61455, 61458                                                                                                                          | Alargadera / Extension                            |                                                                                                    |  |
|              | 61440                                                                                                                                 | Mango en T / T Handle                             |                                                                                                    |  |
| 1            | 61437                                                                                                                                 | Articulación universal / Universal joint          |                                                                                                    |  |
|              | 61441                                                                                                                                 | Mango articulado / Hinged handle                  |                                                                                                    |  |
| 2            | 61462, 61463                                                                                                                          | Llaves de vaso para bujías / Spark<br>plug socket | 16 mm-21 mm                                                                                        |  |





09

**LLAVES DE VASO**  
**SOCKET WRENCHES**  
**DOUILLES**  
**STECKSCHLÜSSEL**  
**BUSSOLE**  
**CHAVES DE CAIXA**  
**ГОЛОВКИ**



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■ 1/2"

■ 33 PCS.- 1/2"

| COD.         |     | PCS. |       |     |
|--------------|-----|------|-------|-----|
| <b>65074</b> | 1/2 | 33   | 50974 | 6,0 |

| PCS. | Composición / Composition / Composition                                                                 | Descripción / Description / Description           |                                                 |   |
|------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------|---|
| 15   | 61382, 61383, 61384, 61385, 61386, 61387, 61388, 61389, 61390, 61391, 61392, 61393, 61394, 61395, 61396 | Llaves de vaso / Socket wrenches                  | 10-11-12-13-14-15-16-17-18-19-20-21-22-23-24 mm | - |
| 10   | 67780, 67781, 67782, 67783, 67784, 67785, 67786, 67787, 67788, 67789                                    | Llaves de vaso serie larga / Long socket wrenches | 10-11-12-13-14-15-16-17-18-19 mm                | - |
| 1    | 62606                                                                                                   | Carraca / Ratchet                                 | -                                               |   |
| 3    | 61453, 61455, 61458                                                                                     | Alargadera / Extension                            | 3"-5"-10"                                       |   |
| 1    | 61441                                                                                                   | Mango articulado / Hinged handle                  | -                                               |   |
| 1    | 61437                                                                                                   | Articulación universal / Universal joint          | -                                               |   |
| 2    | 61462, 61463                                                                                            | Llaves de vaso para bujías / Spark plug socket    | 16 mm-21 mm                                     |   |



| COD.         |     | PCS. |       |     |
|--------------|-----|------|-------|-----|
| <b>65075</b> | 1/2 | 33   | 50974 | 7,0 |

| PCS. | Composición / Composition / Composition                                                                 | Descripción / Description / Description           |                                                                                            |   |
|------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------|---|
| 15   | 60481, 60482, 60483, 60484, 60486, 60487, 60488, 60490, 60491, 60492, 60494, 60495, 60496, 60497, 60498 | Llaves de vaso / Socket wrenches                  | 3/8"-7/16"-1/2"-9/16"-5/8"-11/16"-3/4"-13/16"-7/8"-15/16"-1"-1.1/16"-1.1/8"-1.3/16"-1.1/4" | - |
| 10   | 67805, 67806, 67807, 67808, 67809, 67810, 67811, 67812, 67813, 67814                                    | Llaves de vaso serie larga / Long socket wrenches | 3/8"-7/16"-1/2"-9/16"-5/8"-11/16"-3/4"-13/16"-7/8"-15/16"                                  | - |
| 1    | 62606                                                                                                   | Carraca / Ratchet                                 | -                                                                                          |   |
| 3    | 61453, 61455, 61458                                                                                     | Alargadera / Extension                            | 3"-5"-10"                                                                                  |   |
| 1    | 61441                                                                                                   | Mango articulado / Hinged handle                  | -                                                                                          |   |
| 1    | 61437                                                                                                   | Articulación universal / Universal joint          | -                                                                                          |   |
| 2    | 61462, 61463                                                                                            | Llaves de vaso para bujías / Spark plug socket    | 5/8"-13/16"                                                                                |   |

■ 1/2" - 3/4"

■ 7 PCS.- 1/2" - 3/4"

| COD.         |           | PCS. |                                                    |     |
|--------------|-----------|------|----------------------------------------------------|-----|
| <b>58710</b> | 1/2 - 3/4 | 7    | SERIE ESTÁNDAR / STANDARD PATTERN / SÉRIE STANDARD | 1,6 |





| PCS. | Composición / Composition / Composition | Descripción / Description / Description             |             |  |
|------|-----------------------------------------|-----------------------------------------------------|-------------|--|
| 1    | 62606                                   | Carraca 1/2" / Ratchet 1/2"                         | -           |  |
| 1    | 61440                                   | Mango en T 1/2" / T handle 1/2"                     | -           |  |
| 1    | 65882                                   | Adaptador / Adapter                                 | 1/2" - 3/4" |  |
| 2    | 53170                                   | Punta hexagonal con vaso 3/4" / Hex bit socket 3/4" | 22 mm       |  |
| 2    | 66814, 55708                            | Punta hexagonal con vaso 1/2" / Hex bit socket 1/2" | 11, 17 mm   |  |
| 1    | 55696                                   | Punta hexagonal con vaso 1/2" / Hex bit socket 1/2" | 3/4"        |  |



■ 3/4"





■ 14 PCS.- 3/4"

| COD.         |  | PCS. |  |  |    |
|--------------|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|
| <b>61861</b> | 3/4                                                                               | 14   | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD                             | 51054                                                                               | 12 |

| PCS. | Composición / Composition / Composition                              | Descripción / Description / Description                           |  |  |  |  |
|------|----------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 10   | 60503, 60505, 60508, 60511, 60512, 60516, 60517, 60519, 60521, 60522 | Llaves de vaso / Socket wrenches 22-24-27-30-32-36-38-41-46-50 mm |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| 1    | 61859                                                                | Carraca / Ratchet                                                 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| 2    | 61865, 61866                                                         | Alargadera / Extension 4"-8"                                      |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| 1    | 61864                                                                | Mango en T / T Handle                                             |                                                                                   |                                                                                     |                                                                                     |                                                                                     |








| COD.         |  | PCS. |  |  |    |
|--------------|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|
| <b>61862</b> | 3/4                                                                               | 14   | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD                             | 51054                                                                               | 12 |

| PCS. | Composición / Composition / Composition                              | Descripción / Description / Description                                                         |  |  |  |  |
|------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 10   | 60527, 60528, 60529, 60531, 60532, 60535, 60536, 60537, 60539, 60541 | Llaves de vaso / Socket wrenches 7/8"-15/16"-1"-1.1/8"-1.1/4"-1.7/16"-1.1/2"-1.5/8"-1.13/16"-2" |                                                                                   |                                                                                      |                                                                                       |                                                                                       |
| 1    | 61859                                                                | Carraca / Ratchet                                                                               |                                                                                   |                                                                                      |                                                                                       |                                                                                       |
| 2    | 61865, 61866                                                         | Alargadera / Extension 4"-8"                                                                    |                                                                                   |                                                                                      |                                                                                       |                                                                                       |
| 1    | 61864                                                                | Mango en T / T Handle                                                                           |                                                                                   |                                                                                      |                                                                                       |                                                                                       |



■ 1"





■ 14 PCS.- 1"

| COD.         |  | PCS. |  |    |
|--------------|-------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|----|
| <b>65041</b> | 1                                                                                   | 14   | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD                                | 27 |

| PCS. | Composición / Composition / Composition                              | Descripción / Description / Description                           |  |  |  |  |
|------|----------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 10   | 65001, 65002, 65003, 65004, 65006, 65008, 65010, 65012, 65014, 65016 | Llaves de vaso / Socket wrenches 36-41-46-50-55-60-65-70-75-80 mm |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| 1    | 65035                                                                | Carraca / Ratchet                                                 |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| 2    | 65037, 65038                                                         | Alargadera / Extension 8"-16"                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| 1    | 65036                                                                | Mango en T / T Handle                                             |                                                                                     |                                                                                       |                                                                                       |                                                                                       |



| COD.         |  | PCS. |  |    |
|--------------|-------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|----|
| <b>65042</b> | 1                                                                                   | 14   | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD                                | 27 |

| PCS. | Composición / Composition / Composition                              | Descripción / Description / Description                                                               |  |  |  |  |
|------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 10   | 65023, 65024, 65025, 65027, 65028, 65029, 65030, 65031, 65032, 65034 | Llaves de vaso / Socket wrenches 1.13/16"-1.7/8"-2"-2.3/16"-2.1/4"-2.3/8"-2.1/2"-2.5/8"-2.3/4"-3.1/8" |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| 1    | 65035                                                                | Carraca / Ratchet                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| 2    | 65037, 65038                                                         | Alargadera / Extension 8"-16"                                                                         |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| 1    | 65036                                                                | Mango en T / T Handle                                                                                 |                                                                                     |                                                                                       |                                                                                       |                                                                                       |

**RECAMBIO MECANISMO INTERIOR LLAVE DE CARRACA / INSIDE MECHANISM REPAIR SET FOR RATCHET HANDLE / REMPLACEMENT MÉCANISME INTÉRIEUR DE LA CLÉ À CLIQUET / INNENMECHANISMUS-REPARATURSATZ FÜR RATSCHENGRIF / RICAMBIO MECCANISMO INTERNO CHIAVE A CRICCHETTO / SUBSTITUIÇÃO MECANISMO INTERIOR CHAVE DE ROQUETE / ЗАПАСНОЙ ВНУТРЕННИЙ МЕХАНИЗМ КЛЮЧА С ТРЕЦТОКОЙ**

| COD.  | Válido para / Valid for / Valable pour |
|-------|----------------------------------------|
| 89520 | 57414, 62603                           |
| 89521 | 57411                                  |
| 89522 | 57415, 62604                           |
| 89523 | 57412                                  |
| 89524 | 61430                                  |
| 89525 | 57416, 62606                           |
| 89526 | 57410                                  |
| 89527 | 57413                                  |

| COD.  | Válido para / Valid for / Valable pour |
|-------|----------------------------------------|
| 89528 | 61859                                  |

| COD.  | Válido para / Valid for / Valable pour |
|-------|----------------------------------------|
| 89529 | 65035                                  |



**EXPOSITORES / DISPLAYS / PRESENTOIRS / DISPLAY / ESPOSITORI / DISPLAY STAND / СТЕНДЫ**

1/2"

233 PCS.- 1/2"

| COD.  | AF<br>inch | PCS. |                                                    | Kg |
|-------|------------|------|----------------------------------------------------|----|
| 65296 | 1/2        | 233  | SERIE ESTÁNDAR / STANDARD PATTERN / SERIE ESTÁNDAR | 34 |





| PCS. | Composición / Composition / Composition                | Descripción / Description / Description |                          |  |
|------|--------------------------------------------------------|-----------------------------------------|--------------------------|--|
| 96   | 61800, 61801, 61802, 61803, 61804, 61805, 61806, 61807 | Llaves de vaso / Socket wrenches        | 8-9-10-11-12-13-14-15 mm |  |
| 22   | 61808, 61809                                           |                                         | 16-17 mm                 |  |
| 20   | 61810, 61811                                           |                                         | 18-19 mm                 |  |
| 18   | 61812, 61813                                           |                                         | 20-21 mm                 |  |
| 24   | 61814, 61815, 61816                                    |                                         | 22-23-24 mm              |  |
| 35   | 61817, 61818, 61819, 61820, 61821                      |                                         | 25-26-27-28-29 mm        |  |
| 12   | 61822, 61823                                           |                                         | 30-32 mm                 |  |
| 6    | 61430                                                  | Carraca / Ratchet                       | -                        |  |

| COD.  | AF<br>inch | PCS. |                                                    | Kg |
|-------|------------|------|----------------------------------------------------|----|
| 65297 | 1/2        | 233  | SERIE ESTÁNDAR / STANDARD PATTERN / SERIE STANDARD | 34 |





| PCS. | Composición / Composition / Composition                | Descripción / Description / Description |                          |  |
|------|--------------------------------------------------------|-----------------------------------------|--------------------------|--|
| 96   | 61380, 61381, 61382, 61383, 61384, 61385, 61386, 61387 | Llaves de vaso / Socket wrenches        | 8-9-10-11-12-13-14-15 mm |  |
| 22   | 61388, 61389                                           |                                         | 16-17 mm                 |  |
| 20   | 61390, 61391                                           |                                         | 18-19 mm                 |  |
| 18   | 61392, 61393                                           |                                         | 20-21 mm                 |  |
| 24   | 61394, 61395, 61391                                    |                                         | 22-23-24 mm              |  |
| 35   | 61397, 61398, 61399, 61400, 61401                      |                                         | 25-26-27-28-29 mm        |  |
| 12   | 61402, 61403                                           |                                         | 30-32 mm                 |  |
| 6    | 62606                                                  | Carraca / Ratchet                       | -                        |  |



■ 236 PCS.- 1/2"




| COD.  |  | PCS.                                    |                                                       |   |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------|
| 65298 | 1/2                                                                               | 236                                     | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD | 33                                                                                  |
| PCS.  | Composición / Composition / Composition                                           | Descripción / Description / Description |                                                       |                                                                                     |
| 48    | 60460, 60461                                                                      | 5/16"-3/8"                              |                                                       |                                                                                     |
| 24    | 60462, 60463<br>60464                                                             | 7/16"-1/2"<br>9/16"                     |                                                       |                                                                                     |
| 22    | 60466                                                                             | 5/8"                                    |                                                       |                                                                                     |
| 20    | 60467                                                                             | 11/16"                                  |                                                       |                                                                                     |
| 19    | 60468                                                                             | 3/4"                                    |                                                       |                                                                                     |
| 9     | 60470                                                                             | 13/16"                                  |                                                       |    |
| 16    | 60471                                                                             | 7/8"                                    |                                                       |                                                                                     |
| 8     | 60472                                                                             | 15/16"                                  |                                                       |                                                                                     |
| 14    | 60474<br>60475, 60476                                                             | 1"<br>1.1/16"-1.1/8"                    |                                                       |                                                                                     |
| 12    | 60477, 60478                                                                      | 1.3/16"-1.1/4"                          |                                                       |                                                                                     |
| 6     | 61430                                                                             | Carraca / Ratchet                       | -                                                     |  |



| COD.  |  | PCS.                                    |                                                       |     |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------|
| 65299 | 1/2                                                                               | 236                                     | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD | 32                                                                                    |
| PCS.  | Composición / Composition / Composition                                           | Descripción / Description / Description |                                                       |                                                                                       |
| 48    | 60480, 60481<br>60482, 60483, 60484, 60485                                        | 5/16"-3/8"<br>7/16"-1/2"-9/16"-19/32"   |                                                       |                                                                                       |
| 22    | 60486, 60479                                                                      | 5/8"-21/32"                             |                                                       |                                                                                       |
| 20    | 60487                                                                             | 11/16"                                  |                                                       |                                                                                       |
| 10    | 60488                                                                             | 3/4"                                    |                                                       |                                                                                       |
| 18    | 60489, 60490                                                                      | 25/32"-13/16"                           |                                                       |    |
| 16    | 60491                                                                             | 7/8"                                    |                                                       |                                                                                       |
| 8     | 60492                                                                             | 15/16"                                  |                                                       |                                                                                       |
| 28    | 60493, 60494, 60495, 60496                                                        | 31/32"-1"-1.1/16"-1.1/8"                |                                                       |                                                                                       |
| 12    | 60497, 60498                                                                      | 1.3/16"-1.1/4"                          |                                                       |                                                                                       |
| 6     | 62606                                                                             | Carraca / Ratchet                       | -                                                     |  |

■ 3/4"

■ 86 PCS.- 3/4"

| COD.  |  | PCS.                                    |                                                       |   |
|-------|-------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------|
| 65300 | 3/4                                                                                 | 86                                      | SERIE ESTÁNDAR / STANDARD<br>PATTERN / SÉRIE STANDARD | 38                                                                                    |
| PCS.  | Composición / Composition / Composition                                             | Descripción / Description / Description |                                                       |                                                                                       |
| 35    | 60501, 60503, 60505, 60507, 60508                                                   | 19-22-24-26-27 mm                       |                                                       |                                                                                       |
| 18    | 60510, 60511, 60512                                                                 | 29-30-32 mm                             |                                                       |                                                                                       |
| 25    | 60514, 60515, 60516, 60517, 60519                                                   | 34-35-36-38-41 mm                       |                                                       |  |
| 8     | 60521, 60522                                                                        | 46-50 mm                                |                                                       |                                                                                       |




09

LLAVES DE VASO  
 SOCKET WRENCHES  
 DOUILLES  
 STECKSCHLÜSSEL  
 BUSSOLE  
 CHAVES DE CAIXA  
 ГОЛОВКИ



■ 3/4"

■ 86 PCS.- 3/4"

| COD.  |  | PCS. |  |
|-------|-----------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------|
| 65301 | 3/4                                                                               | 86   | 39                                                                                 |

SERIE ESTÁNDAR / STANDARD  
 PATTERN / SÉRIE STANDARD

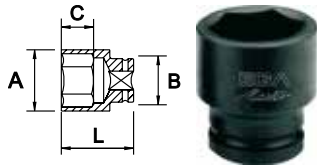
| PCS. | Composición / Composition / Composition | Descripción / Description / Description |                                      |
|------|-----------------------------------------|-----------------------------------------|--------------------------------------|
| 14   | 60527                                   | Llaves de vaso / Socket wrenches        | 7/8"                                 |
| 21   | 60528, 60529, 60530                     |                                         | 15/16"-1"-1.1/16"                    |
| 6    | 60531                                   |                                         | 1.1/8"                               |
| 12   | 60532                                   |                                         | 1-1/4"                               |
| 25   | 60533, 60534, 60535, 60536, 60537       |                                         | 1.5/16"-1.3/8"-1.7/16"-1.1/2"-1.5/8" |
| 8    | 60539, 60541                            |                                         | 1.13/16"-2"                          |



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**LLAVES DE VASO DE IMPACTO / IMPACT SOCKET WRENCHES / DOUILLES À CHOC / KRAFTSCHRAUBEREINSATZ / BUSSOLA AD IMPULSI / CHAVES DE CAIXA DE IMPACTO / УДАРНЫЕ ГОЛОВКИ**

- 3/8"
- 6 PT.- 3/8"
- STANDARD
- MM



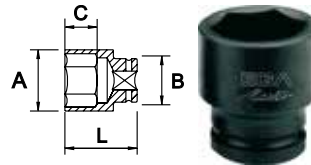
| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g  | Icons |
|-------|-------|--------|--------|--------|--------|----|----|-------|
| 60590 | 7     |        | 12     |        |        |    | 41 |       |
| 60591 | 8     |        | 13     |        |        |    |    |       |
| 60592 | 9     |        | 14     | 19     | 14     |    | 43 |       |
| 60593 | 10    |        | 16     |        |        |    |    |       |
| 60594 | 11    |        | 17     |        |        |    | 44 |       |
| 60595 | 12    |        | 18     |        |        |    |    |       |
| 60596 | 13    | 30     | 20     | 20     | 15     | 6  |    | 6 •   |
| 60597 | 14    |        | 21     | 21     |        |    |    |       |
| 60598 | 15    |        | 22     | 22     |        |    | 60 |       |
| 60599 | 16    |        | 23     | 23     | 16     |    |    |       |
| 60600 | 17    |        | 24     | 24     |        |    |    |       |
| 60601 | 18    |        | 26     | 26     |        |    |    |       |
| 60602 | 19    |        | 27     | 27     |        |    | 70 |       |

| DIN 3129

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

■ INCH



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   | Icons |
|-------|---------|--------|--------|--------|--------|----|-----|-------|
| 65205 | 5/16    |        | 13     |        |        |    | 43  |       |
| 65206 | 3/8     |        | 15     | 19     | 14     |    | 44  |       |
| 65207 | 7/16    |        | 17     |        |        |    |     |       |
| 65208 | 1/2     |        | 19     |        | 15     |    |     |       |
| 65209 | 9/16    | 30     | 21     | 21     |        | 6  | 60  | 6 •   |
| 65210 | 5/8     |        | 23     | 23     |        |    |     |       |
| 65211 | 11/16   |        | 25     | 25     | 16     |    | 70  |       |
| 65212 | 3/4     |        | 27     | 27     |        |    | 100 |       |
| 68685 | 13/16   |        | 30     | 30     |        |    | 125 |       |
| 68686 | 7/8     |        | 32     | 32     |        |    |     |       |

| DIN 3129

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V





**BE SAFE...BE EFFICIENT**

## 3/8"

PUNTAS ATORNILLADORAS DE IMPACTO CON VASO / IMPACT SOCKET BITS / EMBOUTS DE VISSAGE CHOC À DOUILLE / STECKSCHLÜSSEL BITS / INSERTI A BUSSOLA IMPACT / PONTAS APARAFUSADORAS DE IMPACTO COM CHAVE DE CAIXA / ГОЛОВКИ-БИТЫ УДАРНЫЕ





HEXAGONAL / HEXAGONAL / HEXAGONALE / HEXAGONAL / ESAGONALE / HEXAGONAL / ШЕСТИГРАННАЯ

## MM

| COD.  |  mm | L (mm) |  |  |  |
|-------|--------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 65920 | 3                                                                                    | 78     | 45                                                                                | 10                                                                                | ●                                                                                   |
| 65921 | 4                                                                                    |        | 50                                                                                |                                                                                   |                                                                                     |
| 65922 | 5                                                                                    |        | 55                                                                                |                                                                                   |                                                                                     |
| 65923 | 6                                                                                    |        | 65                                                                                |                                                                                   |                                                                                     |
| 65924 | 8                                                                                    |        | 85                                                                                |                                                                                   |                                                                                     |
| 65925 | 10                                                                                   |        | 100                                                                               |                                                                                   |                                                                                     |
| 65926 | 12                                                                                   |        | 120                                                                               |                                                                                   |                                                                                     |
| 65927 | 14                                                                                   |        |                                                                                   |                                                                                   |                                                                                     |







## INCH.

| COD.  |  inch | L (mm) |  |  |  |
|-------|----------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53172 | 3/16                                                                                   | 60     | 50                                                                                | 10                                                                                | ●                                                                                   |
| 53173 | 7/32                                                                                   |        | 70                                                                                |                                                                                   |                                                                                     |
| 53174 | 1/4                                                                                    |        | 75                                                                                |                                                                                   |                                                                                     |
| 53175 | 9/32                                                                                   |        | 80                                                                                |                                                                                   |                                                                                     |
| 53176 | 5/16                                                                                   |        | 90                                                                                |                                                                                   |                                                                                     |
| 53177 | 3/8                                                                                    |        | 100                                                                               |                                                                                   |                                                                                     |
| 53178 | 7/16                                                                                   |        | 115                                                                               |                                                                                   |                                                                                     |
| 53179 | 1/2                                                                                    |        | 120                                                                               |                                                                                   |                                                                                     |
| 53180 | 9/16                                                                                   |        |                                                                                   |                                                                                   |                                                                                     |
| 53181 | 5/8                                                                                    |        |                                                                                   |                                                                                   |                                                                                     |



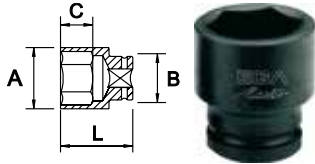
## TORX®\*

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 65928 | T-25                                                                                | 60     | 40                                                                                  | 10                                                                                  | ●                                                                                     |
| 65929 | T-27                                                                                |        | 45                                                                                  |                                                                                     |                                                                                       |
| 65930 | T-30                                                                                |        | 50                                                                                  |                                                                                     |                                                                                       |
| 65931 | T-40                                                                                |        | 55                                                                                  |                                                                                     |                                                                                       |
| 65932 | T-45                                                                                |        | 65                                                                                  |                                                                                     |                                                                                       |
| 65933 | T-50                                                                                |        | 75                                                                                  |                                                                                     |                                                                                       |
| 65934 | T-55                                                                                |        |                                                                                     |                                                                                     |                                                                                       |
| 65935 | T-60                                                                                |        |                                                                                     |                                                                                     |                                                                                       |

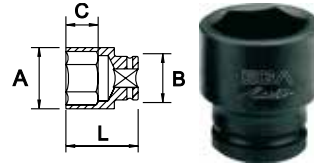


\*Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)

- 1/2"
- 6 PT. - 1/2"
- STANDARD
- MM



- INCH



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt  | g | 6 | • |
|-------|-------|--------|--------|--------|--------|-----|---|---|---|
| 60658 | 8     |        |        |        |        |     |   |   |   |
| 57987 | 9     |        | 17     |        |        | 65  |   |   |   |
| 60603 | 10    |        |        |        |        |     |   |   |   |
| 60604 | 11    |        | 19     |        | 15     |     |   |   |   |
| 60605 | 12    |        | 20     | 24     |        |     |   |   |   |
| 60606 | 13    |        | 22     |        |        | 80  |   |   |   |
| 60607 | 14    |        |        |        |        |     |   |   |   |
| 60608 | 15    |        | 24     |        |        |     |   |   |   |
| 60609 | 16    |        |        |        | 16     |     |   |   |   |
| 60610 | 17    |        | 26     | 26     |        | 95  |   |   |   |
| 60611 | 18    | 38     |        |        |        |     |   |   |   |
| 60612 | 19    |        | 28     | 28     |        | 110 |   |   |   |
| 60639 | 20    |        | 29     | 29     | 18     |     | 6 | 6 | • |
| 60613 | 21    |        | 30     | 30     |        | 120 |   |   |   |
| 60614 | 22    |        | 32     | 32     |        | 140 |   |   |   |
| 58450 | 23    |        |        |        |        | 160 |   |   |   |
| 60615 | 24    |        | 34     | 34     | 20     |     |   |   |   |
| 58451 | 25    |        | 36     | 36     |        | 190 |   |   |   |
| 60616 | 27    |        | 38     |        |        | 185 |   |   |   |
| 57988 | 28    |        |        |        | 21     | 190 |   |   |   |
| 60617 | 29    |        | 40     | 35     |        | 200 |   |   |   |
| 60618 | 30    | 43     | 42     | 42     | 20     |     |   |   |   |
| 60619 | 32    | 38     | 44     | 35     |        | 210 |   |   |   |
| 57989 | 33    |        | 46,5   |        |        | 236 |   |   |   |
| 57990 | 34    | 48     | 46,8   | 30     | 23     | 248 |   |   |   |
| 60712 | 36    | 50     | 50     | 36     |        | 350 |   |   |   |

■ DIN 3129

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt  | g | 6 | • |
|-------|---------|--------|--------|--------|--------|-----|---|---|---|
| 65213 | 3/8     |        | 16     |        |        |     |   |   |   |
| 65214 | 7/16    |        | 18     |        |        |     |   |   |   |
| 65215 | 1/2     |        | 20     | 23     | 14     | 85  |   |   |   |
| 65216 | 9/16    |        | 22     |        |        |     |   |   |   |
| 65217 | 5/8     |        | 24     | 24     | 15     |     |   |   |   |
| 65218 | 11/16   |        | 26     | 26     | 16     | 125 |   |   |   |
| 65219 | 3/4     |        | 28     | 28     |        |     |   |   |   |
| 65220 | 13/16   | 38     | 30     | 30     | 19     |     |   |   |   |
| 65221 | 7/8     |        | 32     | 32     | 20     | 130 |   |   |   |
| 65222 | 15/16   |        | 34     | 34     |        | 135 | 6 | 6 | • |
| 65223 | 1       |        | 36     |        |        | 145 |   |   |   |
| 65224 | 1.1/16  |        | 38     |        |        | 170 |   |   |   |
| 65225 | 1.1/8   |        | 40     | 35     | 21     | 190 |   |   |   |
| 57985 | 1.3/16  |        | 42     |        |        | 200 |   |   |   |
| 65226 | 1.1/4   |        | 44     |        |        | 330 |   |   |   |
| 58447 | 1.5/16  | 50     | 47     |        |        | 350 |   |   |   |
| 58448 | 1.3/8   |        | 49     | 30     | 28     | 410 |   |   |   |
| 58457 | 1.7/16  | 55     | 50     |        | 30     | 490 |   |   |   |
| 58458 | 1.1/2   |        | 52     | 40     |        |     |   |   |   |

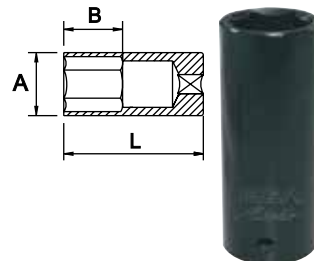
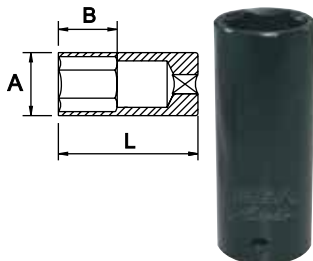
■ DIN 3129

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



- 1/2"
- 6 PT. - 1/2"
- SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ
- MM
- INCH



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | Pt | g   | Icon 1 | Icon 2 |
|-------|-------|--------|--------|--------|----|-----|--------|--------|
| 57994 | 9     |        | 16     | 24     |    | 142 |        |        |
| 60660 | 10    |        | 17     |        |    |     |        |        |
| 60661 | 11    |        | 18     |        |    |     |        |        |
| 60662 | 12    |        | 19     | 27     |    |     |        |        |
| 60663 | 13    |        | 20     |        |    |     |        |        |
| 60664 | 14    |        | 22     | 37     |    | 190 |        |        |
| 58452 | 15    |        | 24     | 34     |    |     |        |        |
| 60665 | 16    |        |        |        |    |     |        |        |
| 60666 | 17    |        | 26     |        |    |     |        |        |
| 60667 | 18    |        | 27     |        |    |     |        |        |
| 60668 | 19    | 80     | 28     |        | 6  |     | 6      | ●      |
| 57995 | 20    |        | 30     |        |    | 260 |        |        |
| 60669 | 21    |        | 31     |        |    |     |        |        |
| 60670 | 22    |        | 32     | 37     |    | 310 |        |        |
| 60671 | 23    |        | 33     |        |    | 320 |        |        |
| 60672 | 24    |        | 34     |        |    | 340 |        |        |
| 60673 | 27    |        | 38     |        |    | 400 |        |        |
| 60674 | 29    |        | 40     |        |    | 420 |        |        |
| 60675 | 30    |        | 42     |        |    | 430 |        |        |
| 60676 | 32    |        | 44     |        |    | 450 |        |        |
| 57996 | 34    |        | 47     | 38     |    | 503 |        |        |

● | DIN 3129

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

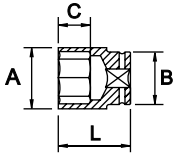
| COD.  | AF inch | L (mm) | A (mm) | B (mm) | Pt | g   | Icon 1 | Icon 2 |
|-------|---------|--------|--------|--------|----|-----|--------|--------|
| 55630 | 3/8     |        | 18     | 24     |    |     |        |        |
| 55631 | 7/16    |        | 20     |        |    |     |        |        |
| 55632 | 1/2     |        | 22     | 29     |    | 190 |        |        |
| 55633 | 9/16    |        | 24     |        |    |     |        |        |
| 55634 | 5/8     |        | 26     |        |    |     |        |        |
| 55635 | 11/16   |        | 28     |        |    |     |        |        |
| 55636 | 3/4     |        | 30     |        |    | 220 |        |        |
| 55637 | 13/16   | 80     | 32     |        | 6  | 250 | 6      | ●      |
| 55638 | 7/8     |        | 34     |        |    | 290 |        |        |
| 55639 | 15/16   |        | 36     | 36     |    | 320 |        |        |
| 55640 | 1       |        | 38     |        |    | 370 |        |        |
| 55641 | 1.1/16  |        | 40     |        |    |     |        |        |
| 55642 | 1.1/8   |        | 42     |        |    | 386 |        |        |
| 57992 | 1.3/16  |        | 44     |        |    | 420 |        |        |
| 55643 | 1.1/4   |        | 46     |        |    | 450 |        |        |
| 58470 | 1.5/16  |        |        |        |    |     |        |        |

● | DIN 3129

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

- 1/2"
- 8 PT.- 1/2"
- STANDARD
- INCH



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt  | g   |   |   |
|-------|---------|--------|--------|--------|--------|-----|-----|---|---|
| 56350 | 3/8     | 38     | 19     |        | 6      |     | 70  |   |   |
| 56351 | 7/16    |        | 21     | 24     | 8      |     | 75  |   |   |
| 56352 | 1/2     |        | 24     |        | 9      |     | 80  |   |   |
| 56353 | 9/16    |        | 26     | 26     |        |     | 95  |   |   |
| 56354 | 5/8     |        | 28     | 28     | 11     |     | 110 |   |   |
| 56355 | 11/16   | 40     | 30     | 30     |        |     | 125 |   |   |
| 56356 | 3/4     |        | 34     | 34     | 13     | 8   | 180 | 6 | ● |
| 56357 | 13/16   |        | 36     | 36     |        |     | 195 |   |   |
| 56358 | 7/8     |        | 38     |        |        |     | 220 |   |   |
| 56359 | 15/16   |        | 42     | 38     |        |     | 285 |   |   |
| 56360 | 1       | 45     | 44     |        | 18     | 300 |     |   |   |
| 56361 | 1.1/16  | 50     | 46,5   | 46,5   | 19     |     | 430 |   |   |
| 56362 | 1.1/8   |        | 49     | 49     |        |     | 605 |   |   |



CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

PUNTAS ATORNILLADORAS DE IMPACTO CON VASO / IMPACT SOCKET BITS / EMBOUTS DE VISSAGE CHOC À DOUILLE / STECKSCHLÜSSEL BITS / INSERTI A BUSSOLA IMPACT /  
 PONTAS APARAFUSADORAS DE IMPACTO COM CHAVE DE CAIXA / ГОЛОВКИ-БИТЫ УДАРНЫЕ

HEXAGONAL / HEXAGONAL / HEXAGONALE / HEXAGONAL / ESAGONALE / HEXAGONAL / ШЕСТИГРАННАЯ

MM

| COD.  | mm | L (mm) | g   |    |   |
|-------|----|--------|-----|----|---|
| 65936 | 4  | 78     | 80  |    |   |
| 65937 | 5  |        | 85  |    |   |
| 65938 | 6  |        |     |    |   |
| 53183 | 7  |        | 95  |    |   |
| 65939 | 8  |        |     |    |   |
| 53184 | 9  |        | 105 |    |   |
| 65940 | 10 |        | 110 |    |   |
| 65941 | 11 |        | 120 | 10 | ● |
| 65942 | 12 |        | 125 |    |   |
| 53185 | 13 |        | 135 |    |   |
| 65943 | 14 |        | 140 |    |   |
| 53186 | 15 |        |     |    |   |
| 65944 | 17 |        | 170 |    |   |
| 53187 | 18 |        |     |    |   |
| 65945 | 19 |        | 200 |    |   |



INCH.

| COD.  | inch | L (mm) | g   |    |   |
|-------|------|--------|-----|----|---|
| 53188 | 3/16 | 78     | 90  |    |   |
| 53189 | 7/32 |        | 90  |    |   |
| 53190 | 1/4  |        | 95  | 10 | ● |
| 53191 | 9/32 |        | 95  |    |   |
| 53192 | 5/16 |        | 100 |    |   |



## 1/2"

| COD.  | inch  | L (mm) | g   |    |   |
|-------|-------|--------|-----|----|---|
| 53193 | 3/8   |        | 120 |    |   |
| 53194 | 7/16  |        | 130 |    |   |
| 53195 | 1/2   |        |     |    |   |
| 53196 | 9/16  | 78     | 140 | 10 | • |
| 53197 | 5/8   |        |     |    |   |
| 53198 | 11/16 |        | 150 |    |   |
| 53199 | 3/4   |        | 210 |    |   |

## HEXAGONAL SERIE LARGA / HEXAGONAL LONG / HEXAGONALE SÉRIE LONGUE / HEXAGONAL LANG / ESAGONALE SERIE LUNGA / HEXAGONAL SÉRIE LONGA / ШЕСТИГРАННАЯ ВЫСОКАЯ СЕРИЯ

| COD.  | mm | L (mm) | g   |    |   |
|-------|----|--------|-----|----|---|
| 58660 | 5  |        | 260 |    |   |
| 58661 | 6  |        | 270 |    |   |
| 58662 | 8  | 170    | 345 | 10 | • |
| 58663 | 10 |        | 350 |    |   |
| 58664 | 12 |        | 420 |    |   |
| 58665 | 14 |        | 430 |    |   |



## TORX\*\*

| COD.  |      | L (mm) | g   |    |   |
|-------|------|--------|-----|----|---|
| 65946 | T-25 |        | 75  |    |   |
| 65947 | T-27 |        |     |    |   |
| 65948 | T-30 |        | 80  |    |   |
| 65949 | T-40 | 78     | 85  | 10 | • |
| 65950 | T-45 |        | 90  |    |   |
| 65951 | T-50 |        | 110 |    |   |
| 65952 | T-55 |        | 120 |    |   |
| 65953 | T-60 |        |     |    |   |

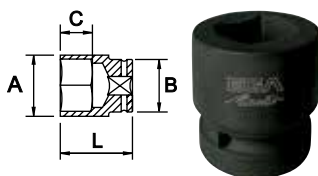


## 3/4"

### 4 PT.- 3/4"

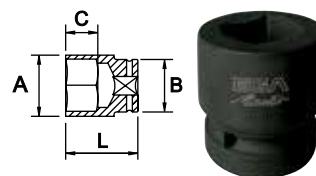
### STANDARD

### MM



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   |   |   |
|-------|-------|--------|--------|--------|--------|----|-----|---|---|
| 57190 | 22    |        | 44     |        |        |    | 240 |   |   |
| 57191 | 24    | 50     | 47     | 44     | 24     | 4  | 250 | 1 | • |
| 57192 | 27    |        | 49     |        |        |    | 270 |   |   |
| 57193 | 30    |        | 55     |        |        |    | 420 |   |   |

### INCH



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   |   |   |
|-------|---------|--------|--------|--------|--------|----|-----|---|---|
| 56394 | 5/8     |        | 32     | 40     | 13     |    | 285 |   |   |
| 56395 | 11/16   | 52     | 34     | 42     | 15     | 4  | 295 | 1 | • |
| 56396 | 13/16   |        | 42     | 42     | 15     |    | 380 |   |   |



### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

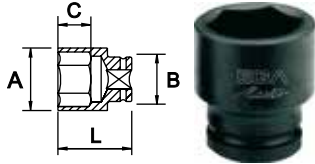
### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

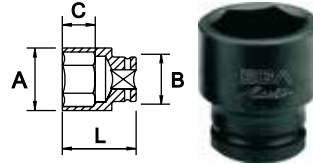
Cr-V

\* Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*\* For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \* Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)

- 3/4"
- 6 PT.- 3/4"
- STANDARD
- MM



- INCH



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt   | g | Icon 1 | Icon 2 |
|-------|-------|--------|--------|--------|--------|------|---|--------|--------|
| 59990 | 16    |        | 30     | 44     | 22     | 380  |   |        |        |
| 63879 | 17    |        |        |        |        | 220  |   |        |        |
| 57334 | 18    |        | 32     |        |        |      |   |        |        |
| 60620 | 19    |        | 33     |        |        |      |   |        |        |
| 57335 | 20    |        |        |        | 18     |      |   |        |        |
| 60621 | 21    | 50     | 35     | 38     |        |      |   |        |        |
| 60622 | 22    |        | 37     |        |        |      |   |        |        |
| 60623 | 23    |        | 38     |        |        | 230  |   |        |        |
| 60624 | 24    |        | 39     |        | 22     |      |   |        |        |
| 57336 | 25    |        | 40     |        | 23     |      |   |        |        |
| 60625 | 26    |        | 41     |        | 24     |      |   |        |        |
| 60626 | 27    |        | 43     | 40     | 26     |      |   |        |        |
| 60627 | 28    |        | 44     |        |        |      |   |        |        |
| 60628 | 29    |        | 45     | 42     |        | 310  |   |        |        |
| 60629 | 30    |        | 46     |        |        | 420  |   |        |        |
| 57337 | 31    |        | 49     |        |        | 430  |   |        |        |
| 60630 | 32    |        | 49     |        |        | 440  |   |        |        |
| 60631 | 33    |        | 50     |        |        | 460  |   |        |        |
| 60632 | 34    | 55     | 50     |        |        | 480  | 6 | 1      |        |
| 58454 | 35    |        | 51     |        | 27     | 460  |   |        |        |
| 60633 | 36    |        |        |        |        | 500  |   |        |        |
| 60634 | 38    |        | 55     |        |        | 550  |   |        |        |
| 57338 | 39    |        |        | 44     |        | 560  |   |        |        |
| 57339 | 40    |        |        |        |        | 570  |   |        |        |
| 60635 | 41    |        | 60     |        |        | 600  |   |        |        |
| 60636 | 42    |        |        |        |        | 700  |   |        |        |
| 58455 | 43    |        | 61     |        |        | 610  |   |        |        |
| 57340 | 44    | 60     | 60     |        |        |      |   |        |        |
| 57341 | 45    |        |        |        |        | 700  |   |        |        |
| 60637 | 46    | 65     | 65     |        |        |      |   |        |        |
| 57342 | 47    |        |        |        | 28     |      |   |        |        |
| 63880 | 48    |        |        |        |        |      |   |        |        |
| 60638 | 50    | 70     | 70     |        |        | 1100 |   |        |        |
| 57345 | 51    |        |        |        |        |      |   |        |        |
| 63881 | 54    |        |        | 55     | 32     |      |   |        |        |
| 63891 | 55    | 75     | 75     |        | 43     | 1250 |   |        |        |
| 63921 | 60    |        | 85     |        |        | 1300 |   |        |        |

■ DIN 3129

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-Mo

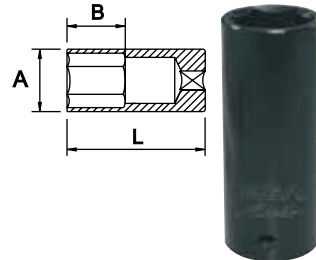
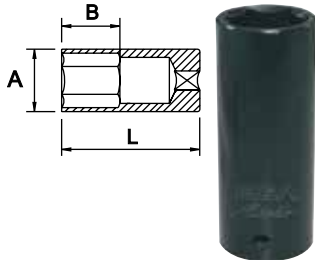
| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt   | g | Icon 1 | Icon 2 |
|-------|---------|--------|--------|--------|--------|------|---|--------|--------|
| 58453 | 11/16   |        | 29     | 38     | 16     | 220  |   |        |        |
| 65227 | 3/4     |        | 33     |        |        |      |   |        |        |
| 65228 | 13/16   |        | 35     |        | 18     |      |   |        |        |
| 65229 | 7/8     | 50     | 37     |        |        |      |   |        |        |
| 65230 | 15/16   |        | 39     |        |        | 230  |   |        |        |
| 65231 | 1       |        | 41     |        | 22     |      |   |        |        |
| 65232 | 1.1/16  |        | 43     |        | 26     |      |   |        |        |
| 65233 | 1.1/8   |        | 45     |        |        | 310  |   |        |        |
| 65234 | 1.3/16  |        | 46     |        |        | 420  |   |        |        |
| 65235 | 1.1/4   | 55     | 49     |        |        | 440  |   |        |        |
| 65236 | 1.5/16  |        | 50     | 44     |        | 460  |   |        |        |
| 65237 | 1.3/8   |        |        |        | 27     | 480  |   |        |        |
| 65238 | 1.7/16  |        | 55     |        |        | 500  |   |        |        |
| 65239 | 1.1/2   |        |        |        |        | 550  | 6 | 1      |        |
| 68689 | 1.9/16  |        | 58     |        |        | 600  |   |        |        |
| 65240 | 1.5/8   | 60     | 60     |        |        |      |   |        |        |
| 65241 | 1.11/16 |        |        |        |        | 700  |   |        |        |
| 65242 | 1.3/4   |        | 65     |        |        |      |   |        |        |
| 57344 | 1.13/16 |        |        |        |        | 750  |   |        |        |
| 65243 | 1.7/8   | 65     | 70     |        |        |      |   |        |        |
| 57346 | 1.15/16 |        |        |        |        |      |   |        |        |
| 65244 | 2       |        |        |        | 28     |      |   |        |        |
| 57347 | 2.1/16  | 70     | 75     |        |        | 1100 |   |        |        |
| 57354 | 2.3/32  |        |        | 55     |        |      |   |        |        |
| 57348 | 2.1/8   |        |        |        |        |      |   |        |        |
| 68688 | 2.3/16  | 75     | 80     |        |        | 1350 |   |        |        |
| 57999 | 2.1/4   |        |        |        | 35     | 1450 |   |        |        |

■ DIN 3129

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-Mo

- 3/4"
- 6 PT.- 3/4"
- SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ
- MM
- INCH



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | Pt | g    | Icon 1 | Icon 2 |
|-------|-------|--------|--------|--------|----|------|--------|--------|
| 60678 | 17    |        | 31     |        |    | 500  |        |        |
| 60679 | 19    |        | 33     |        |    |      |        |        |
| 57349 | 20    |        | 34     |        |    |      |        |        |
| 60680 | 21    |        | 35     | 28     |    | 600  |        |        |
| 60681 | 22    |        | 37     |        |    |      |        |        |
| 57350 | 23    |        | 39     |        |    |      |        |        |
| 60682 | 24    |        | 40     |        |    |      |        |        |
| 57351 | 25    |        | 41     | 36     |    |      |        |        |
| 60683 | 26    |        | 42     | 50     |    | 650  |        |        |
| 60684 | 27    |        | 44     |        |    |      |        |        |
| 57352 | 28    |        | 45     |        |    |      |        |        |
| 57353 | 29    | 90     | 46     | 55     | 6  | 850  | 1      |        |
| 60685 | 30    |        | 49     |        |    |      |        |        |
| 60686 | 32    |        | 50     |        |    | 900  |        |        |
| 60687 | 33    |        | 55     | 60     |    |      |        |        |
| 60688 | 34    |        | 60     |        |    | 950  |        |        |
| 60689 | 36    |        | 61     |        |    | 940  |        |        |
| 60690 | 38    |        | 65     | 44     |    | 1000 |        |        |
| 60691 | 41    |        | 70     |        |    | 1100 |        |        |
| 63895 | 42    |        | 75     |        |    | 1200 |        |        |
| 58456 | 43    |        |        |        |    | 1400 |        |        |
| 63945 | 44    |        |        |        |    |      |        |        |
| 63896 | 48    |        |        |        |    |      |        |        |
| 63897 | 50    |        |        |        |    |      |        |        |
| 58459 | 54    |        |        |        |    |      |        |        |

DIN 3129

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-Mo

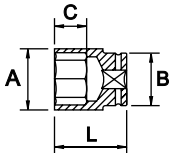
| COD.  | AF inch | L (mm) | A (mm) | B (mm) | Pt | g    | Icon 1 | Icon 2 |
|-------|---------|--------|--------|--------|----|------|--------|--------|
| 58001 | 3/4     |        | 33     |        |    | 550  |        |        |
| 58002 | 13/16   |        | 35     |        |    |      |        |        |
| 58003 | 7/8     |        | 37     | 26     |    | 600  |        |        |
| 58004 | 15/16   |        | 38     |        |    | 550  |        |        |
| 65245 | 1       |        | 40     |        |    | 600  |        |        |
| 65246 | 1.1/16  |        | 42     |        |    | 650  |        |        |
| 65247 | 1.1/8   |        | 44     | 28     |    | 700  |        |        |
| 65248 | 1.3/16  |        | 46     |        |    | 750  | 1      |        |
| 65249 | 1.1/4   |        | 48     |        |    | 800  |        |        |
| 65250 | 1.5/16  | 90     | 50     | 30     | 6  | 850  |        |        |
| 65251 | 1.3/8   |        | 55     | 34     |    | 900  |        |        |
| 57360 | 1.7/16  |        | 60     |        |    | 1000 |        |        |
| 65252 | 1.1/2   |        | 65     | 42     |    | 1100 |        |        |
| 57361 | 1.9/16  |        | 70     | 65     |    | 1150 |        |        |
| 57362 | 1.5/8   |        |        |        |    |      |        |        |
| 57363 | 1.11/16 |        |        |        |    |      |        |        |
| 63946 | 1.3/4   |        |        |        |    |      |        |        |
| 57364 | 1.13/16 |        |        |        |    |      |        |        |
| 57365 | 1.7/8   |        |        |        |    |      |        |        |
| 57366 | 1.15/16 |        |        |        |    |      |        |        |
| 57367 | 2       |        |        |        |    |      |        |        |





DIN 3129

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-Mo

- 3/4"
- 8 PT.- 3/4"
- STANDARD
- INCH



| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) | Pt |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|--------|--------|--------|----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 56363 | 5/8                                                                               |        | 32     |        |        |    | 275                                                                               |                                                                                   |                                                                                     |
| 56364 | 11/16                                                                             |        | 34     | 40     | 13     |    | 280                                                                               |                                                                                   |                                                                                     |
| 56365 | 3/4                                                                               | 50     | 40     |        |        |    | 320                                                                               |                                                                                   |                                                                                     |
| 56366 | 13/16                                                                             |        | 42     | 42     | 15     |    | 360                                                                               |                                                                                   |                                                                                     |
| 56367 | 7/8                                                                               |        | 44     |        |        |    | 395                                                                               |                                                                                   |                                                                                     |
| 56368 | 15/16                                                                             | 52     | 46     |        | 18     |    | 425                                                                               |                                                                                   |                                                                                     |
| 56369 | 1                                                                                 |        | 50     |        |        | 8  | 485                                                                               | 1                                                                                 | •                                                                                   |
| 56370 | 1.1/16                                                                            |        | 53     |        | 19     |    | 555                                                                               |                                                                                   |                                                                                     |
| 56371 | 1.1/8                                                                             | 54     | 56     | 44     | 21     |    | 585                                                                               |                                                                                   |                                                                                     |
| 56372 | 1.3/16                                                                            |        | 58     |        | 22     |    | 630                                                                               |                                                                                   |                                                                                     |
| 56373 | 1.1/4                                                                             |        | 61     |        |        |    | 705                                                                               |                                                                                   |                                                                                     |
| 56374 | 1.5/16                                                                            | 56     | 63.5   |        |        |    | 735                                                                               |                                                                                   |                                                                                     |
| 56375 | 1.7/16                                                                            |        | 68     |        | 24     |    | 765                                                                               |                                                                                   |                                                                                     |
| 56376 | 1.1/2                                                                             | 58     | 70     |        |        |    | 860                                                                               |                                                                                   |                                                                                     |



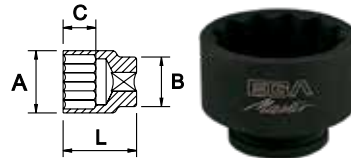
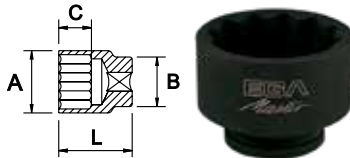
CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

EGGA *Master*  
 ART IN INNOVATION

- 3/4"
- 12 PT.- 3/4"
- STANDARD
- MM

- INCH



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt   | g  | Box | Cart |
|-------|-------|--------|--------|--------|--------|------|----|-----|------|
| 53484 | 16    |        | 30     |        |        |      |    |     |      |
| 53518 | 17    |        | 31     |        |        | 350  |    |     |      |
| 53485 | 19    |        | 33     |        |        |      |    |     |      |
| 53446 | 20    |        | 34     |        |        |      |    |     |      |
| 53486 | 21    | 50     | 35     |        | 25     |      |    |     |      |
| 53487 | 22    |        | 36     |        |        |      |    |     |      |
| 53488 | 23    |        | 37     |        |        |      |    |     |      |
| 53489 | 24    |        | 39     |        |        | 400  |    |     |      |
| 53447 | 25    |        | 42     |        |        |      |    |     |      |
| 53490 | 26    |        |        |        | 28     |      |    |     |      |
| 53491 | 27    |        | 43     |        |        |      |    |     |      |
| 53492 | 28    |        | 45     |        |        |      |    |     |      |
| 53493 | 29    |        | 46     |        |        |      |    |     |      |
| 53494 | 30    |        | 47     |        |        |      |    |     |      |
| 53448 | 31    |        | 49     | 44     |        |      |    |     |      |
| 53495 | 32    | 55     |        |        |        | 450  |    |     |      |
| 53496 | 33    |        | 50     |        |        |      |    |     |      |
| 53497 | 34    |        |        |        |        |      | 12 | 1   | •    |
| 53481 | 35    |        |        |        |        |      |    |     |      |
| 53498 | 36    |        | 55     |        |        | 500  |    |     |      |
| 53499 | 38    |        |        |        | 30     |      |    |     |      |
| 53449 | 39    |        |        |        |        |      |    |     |      |
| 53450 | 40    |        | 60     |        |        | 700  |    |     |      |
| 53501 | 42    |        |        |        |        |      |    |     |      |
| 53482 | 43    | 60     | 65     |        |        |      |    |     |      |
| 53451 | 44    |        |        |        |        |      |    |     |      |
| 53452 | 45    |        |        |        |        |      |    |     |      |
| 53502 | 46    |        |        |        |        | 750  |    |     |      |
| 53453 | 47    |        |        |        |        |      |    |     |      |
| 53519 | 48    |        | 70     |        |        |      |    |     |      |
| 53503 | 50    | 70     |        |        |        |      |    |     |      |
| 53455 | 51    |        |        |        | 55     | 850  |    |     |      |
| 53520 | 54    |        | 75     |        | 35     |      |    |     |      |
| 53521 | 55    | 75     | 80     |        |        | 900  |    |     |      |
| 53525 | 60    |        | 85     |        |        | 1000 |    |     |      |

| COD.  | AF mm   | L (mm) | A (mm) | B (mm) | C (mm) | Pt   | g | Box | Cart |
|-------|---------|--------|--------|--------|--------|------|---|-----|------|
| 53480 | 11/16   |        | 32     |        |        | 350  |   |     |      |
| 53528 | 3/4     |        | 33     |        |        |      |   |     |      |
| 53529 | 13/16   |        | 35     |        |        |      |   |     |      |
| 53530 | 7/8     | 50     | 36     |        | 25     |      |   |     |      |
| 53531 | 15/16   |        | 39     |        |        | 400  |   |     |      |
| 53532 | 1       |        | 42     |        |        |      |   |     |      |
| 53533 | 1.1/16  |        | 43     |        |        |      |   |     |      |
| 53534 | 1.1/8   |        | 46     |        |        |      |   |     |      |
| 53535 | 1.3/16  |        | 48     |        |        |      |   |     |      |
| 53536 | 1.1/4   |        | 50     | 44     |        | 450  |   |     | •    |
| 53537 | 1.5/16  | 55     |        |        |        |      |   |     |      |
| 53538 | 1.3/8   |        |        |        |        |      |   |     |      |
| 53539 | 1.7/16  |        | 55     |        |        | 500  |   |     |      |
| 53540 | 1.1/2   |        |        |        | 30     | 12   |   | 1   |      |
| 53555 | 1.9/16  |        | 60     |        |        |      |   |     |      |
| 53541 | 1.5/8   |        |        |        |        | 700  |   |     |      |
| 53542 | 1.11/16 |        |        |        |        |      |   |     |      |
| 53543 | 1.3/4   | 60     | 65     |        |        |      |   |     |      |
| 53454 | 1.13/16 |        |        |        |        | 750  |   |     |      |
| 53544 | 1.7/8   |        |        |        |        |      |   |     |      |
| 53456 | 1.15/16 |        | 70     |        |        |      |   |     |      |
| 53545 | 2       |        |        |        |        |      |   |     |      |
| 53457 | 2.1/16  | 70     |        |        |        | 1050 |   |     |      |
| 53464 | 2.3/32  |        | 75     | 55     | 35     |      |   |     |      |
| 53458 | 2.1/8   |        |        |        |        | 1100 |   |     |      |
| 53554 | 2.3/16  | 75     | 80     |        |        | 1350 |   |     |      |
| 53473 | 2.1/4   |        |        |        |        |      |   |     |      |

DIN 3129

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

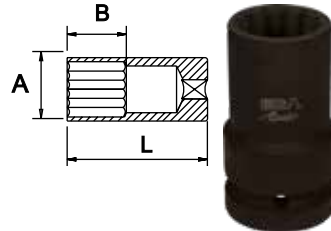
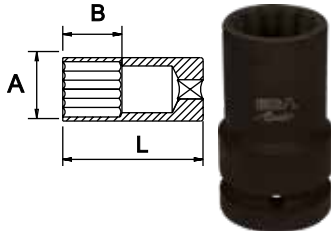
Acero especial / Special steel / Acier spécial

DIN 3129

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero especial / Special steel / Acier spécial

- 3/4"
- 12 PT.- 3/4"
- SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ
- MM
- INCH



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | Pt | g    | Icon 1 | Icon 2 |
|-------|-------|--------|--------|--------|----|------|--------|--------|
| 53504 | 17    |        | 31     |        |    | 550  |        |        |
| 53505 | 19    |        | 33     |        |    |      |        |        |
| 53459 | 20    |        | 34     |        |    | 600  |        |        |
| 53506 | 21    |        | 35     | 25     |    |      |        |        |
| 53507 | 22    |        | 36     |        |    |      |        |        |
| 53460 | 23    |        | 38     |        |    | 650  |        |        |
| 53508 | 24    |        | 39     |        |    |      |        |        |
| 53461 | 25    |        | 42     |        |    |      |        |        |
| 53509 | 26    |        | 43     | 26     |    | 700  |        |        |
| 53510 | 27    |        | 43     | 28     |    |      |        |        |
| 53462 | 28    | 90     | 47     |        |    |      |        |        |
| 53463 | 29    |        | 49     |        | 12 | 800  | 1      |        |
| 53511 | 30    |        | 49     |        |    | 900  |        |        |
| 53512 | 32    |        | 50     |        |    | 950  |        |        |
| 53513 | 33    |        | 55     | 30     |    | 1050 |        |        |
| 53514 | 34    |        | 55     |        |    | 1100 |        |        |
| 53515 | 36    |        | 60     |        |    | 1200 |        |        |
| 53516 | 38    |        | 60     |        |    | 1450 |        |        |
| 53517 | 41    |        | 65     |        |    | 1650 |        |        |
| 53522 | 42    |        | 70     | 35     |    | 1950 |        |        |
| 53483 | 43    |        | 70     |        |    |      |        |        |
| 53526 | 44    |        | 70     |        |    |      |        |        |
| 53523 | 48    | 100    | 70     |        |    |      |        |        |
| 53524 | 50    |        | 70     |        |    |      |        |        |

DIN 3129

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**  
 Acero especial / Special steel / Acier spécial

| COD.  | AF inch | L (mm) | A (mm) | B (mm) | Pt | g    | Icon 1 | Icon 2 |
|-------|---------|--------|--------|--------|----|------|--------|--------|
| 53474 | 3/4     |        | 33     |        |    |      |        |        |
| 53475 | 13/16   |        | 35     |        |    | 600  |        |        |
| 53476 | 7/8     |        | 36     | 25     |    |      |        |        |
| 53477 | 15/16   |        | 39     |        |    |      |        |        |
| 53546 | 1       |        | 42     |        |    | 700  |        |        |
| 53547 | 1.1/16  |        | 43     |        |    |      |        |        |
| 53548 | 1.1/8   |        | 46     |        |    | 800  |        |        |
| 53549 | 1.3/16  |        | 48     |        |    | 900  |        |        |
| 53550 | 1.1/4   |        | 50     |        |    | 950  |        |        |
| 53551 | 1.5/16  |        | 50     |        |    | 1050 | 1      |        |
| 53552 | 1.3/8   | 90     | 55     |        | 12 | 1100 |        |        |
| 53465 | 1.7/16  |        | 55     | 30     |    | 1200 |        |        |
| 53553 | 1.1/2   |        | 60     |        |    | 1300 |        |        |
| 53466 | 1.9/16  |        | 60     |        |    | 1650 |        |        |
| 53467 | 1.5/8   |        | 65     |        |    | 1950 |        |        |
| 53468 | 1.11/16 |        | 65     |        |    |      |        |        |
| 53527 | 1.3/4   |        | 70     | 35     |    |      |        |        |
| 53469 | 1.13/16 |        | 70     |        |    |      |        |        |
| 53470 | 1.7/8   |        | 70     |        |    |      |        |        |
| 53471 | 1.15/16 |        | 70     |        |    |      |        |        |
| 53472 | 2       |        | 70     |        |    |      |        |        |

DIN 3129

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**  
 Acero especial / Special steel / Acier spécial







## 3/4"

**PUNTAS ATORNILLADORAS DE IMPACTO CON VASO / IMPACT SOCKET BITS / EMBOUTS DE VISSAGE CHOCS À DOUILLE / STECKSCHLÜSSEL BITS / INSERTI A BUSSOLA IMPACT / PONTAS APARAFUSADORAS DE IMPACTO COM CHAVE DE CAIXA / ГОЛОВКИ-БИТЫ УДАРНЫЕ**





**HEXAGONAL / HEXAGONAL / HEXAGONALE / HEXAGONAL / ESAGONALE / HEXAGONAL / ШЕСТИГРАННАЯ**

## MM

| COD.  |  mm | L (mm) |  g |  |  |
|-------|--------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 58731 | 10                                                                                   |        | 490                                                                                 |                                                                                   |                                                                                     |
| 58732 | 12                                                                                   |        | 500                                                                                 |                                                                                   |                                                                                     |
| 58733 | 14                                                                                   |        | 550                                                                                 |                                                                                   |                                                                                     |
| 58734 | 17                                                                                   |        | 600                                                                                 |                                                                                   |                                                                                     |
| 58735 | 19                                                                                   | 100    | 600                                                                                 | 10                                                                                | •                                                                                   |
| 58736 | 22                                                                                   |        | 700                                                                                 |                                                                                   |                                                                                     |
| 58737 | 24                                                                                   |        | 700                                                                                 |                                                                                   |                                                                                     |
| 58738 | 27                                                                                   |        | 850                                                                                 |                                                                                   |                                                                                     |
| 58739 | 30                                                                                   |        | 850                                                                                 |                                                                                   |                                                                                     |
| 58740 | 32                                                                                   |        | 850                                                                                 |                                                                                   |                                                                                     |







## INCH.

| COD.  |  inch | L (mm) |  g |  |  |
|-------|----------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53201 | 3/8                                                                                    |        | 480                                                                                 |                                                                                   |                                                                                     |
| 53202 | 7/16                                                                                   |        | 500                                                                                 |                                                                                   |                                                                                     |
| 53203 | 1/2                                                                                    |        | 550                                                                                 |                                                                                   |                                                                                     |
| 53204 | 9/16                                                                                   |        | 600                                                                                 |                                                                                   |                                                                                     |
| 53205 | 5/8                                                                                    |        | 600                                                                                 |                                                                                   |                                                                                     |
| 53206 | 11/16                                                                                  |        | 700                                                                                 |                                                                                   |                                                                                     |
| 53207 | 3/4                                                                                    | 100    | 600                                                                                 | 10                                                                                | •                                                                                   |
| 53208 | 13/16                                                                                  |        | 700                                                                                 |                                                                                   |                                                                                     |
| 53209 | 7/8                                                                                    |        | 750                                                                                 |                                                                                   |                                                                                     |
| 53210 | 1                                                                                      |        | 800                                                                                 |                                                                                   |                                                                                     |
| 53211 | 1.1/16                                                                                 |        | 850                                                                                 |                                                                                   |                                                                                     |
| 53212 | 1.1/8                                                                                  |        | 850                                                                                 |                                                                                   |                                                                                     |
| 53213 | 1.3/16                                                                                 |        | 850                                                                                 |                                                                                   |                                                                                     |
| 53214 | 1.1/4                                                                                  |        | 850                                                                                 |                                                                                   |                                                                                     |



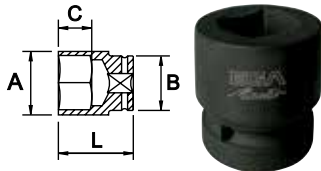
## TORX®\*

| COD.  |  | L (mm) |  g |  |  |
|-------|-------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53216 | T-50                                                                                |        | 500                                                                                   |                                                                                     |                                                                                       |
| 53217 | T-55                                                                                |        | 550                                                                                   |                                                                                     |                                                                                       |
| 53218 | T-60                                                                                |        | 600                                                                                   |                                                                                     |                                                                                       |
| 53219 | T-70                                                                                | 100    | 600                                                                                   | 10                                                                                  | •                                                                                     |
| 53220 | T-80                                                                                |        | 700                                                                                   |                                                                                     |                                                                                       |
| 53221 | T-90                                                                                |        | 850                                                                                   |                                                                                     |                                                                                       |
| 53222 | T-100                                                                               |        | 850                                                                                   |                                                                                     |                                                                                       |



\* Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)

- 1"
- 4 PT. - 1"
- STANDARD
- MM



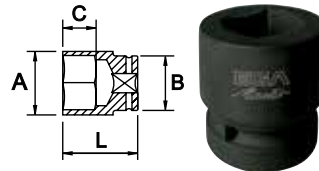
| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   | Icons |
|-------|-------|--------|--------|--------|--------|----|-----|-------|
| 57194 | 17    |        | 40     |        |        |    | 320 |       |
| 57195 | 18    |        | 42     |        |        |    | 340 |       |
| 57196 | 20    |        |        | 50     | 24     |    | 350 |       |
| 57197 | 21    |        | 44     |        |        |    | 360 |       |
| 57198 | 22    | 60     |        |        |        | 4  | 370 | 1 •   |
| 57199 | 23    |        | 48     |        |        |    |     |       |
| 57200 | 24    |        | 50     |        |        |    | 500 |       |
| 57201 | 27    |        | 55     | 55     | 27     |    |     |       |
| 57202 | 30    |        | 60     |        |        |    | 550 |       |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

- INCH



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g    | Icons |
|-------|---------|--------|--------|--------|--------|----|------|-------|
| 56397 | 3/4     |        | 43     |        | 13     |    | 575  |       |
| 56398 | 13/16   | 57     | 44     | 52     |        |    | 565  |       |
| 56399 | 7/8     |        | 48     |        | 15     |    | 675  |       |
| 56400 | 15/16   |        | 50     |        |        | 4  | 685  | 1 •   |
| 56401 | 1       | 60     | 53     | 54     | 18     |    | 715  |       |
| 56402 | 1.1/8   |        | 60     |        | 19     |    | 840  |       |
| 56403 | 1.1/2   | 75     | 75     |        | 24     |    | 1445 | -     |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

# EGGA Master

## ART IN INNOVATION

• \*Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)

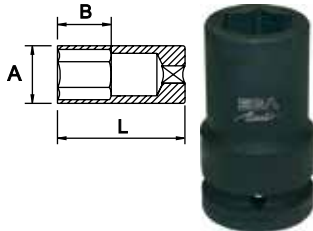


■ 1"

■ 6 PT. - 1"

■ SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

■ MM



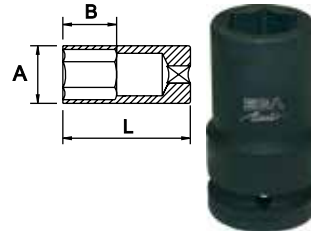
| COD.  | AF mm | L (mm) | A (mm) | B (mm) | Pt | g    | Icon 1 | Icon 2 |
|-------|-------|--------|--------|--------|----|------|--------|--------|
| 57387 | 21    |        | 40     |        |    | 750  |        |        |
| 63898 | 22    |        |        | 16     |    |      |        |        |
| 63899 | 23    |        | 41     |        |    |      |        |        |
| 65539 | 24    |        | 42     |        |    | 800  |        |        |
| 57388 | 25    |        | 43     |        |    |      |        | •      |
| 63900 | 26    |        | 44     |        |    | 900  |        |        |
| 65540 | 27    |        | 46     |        |    |      |        |        |
| 63905 | 28    |        | 47     | 19     |    | 950  |        |        |
| 63901 | 29    |        | 48     |        |    |      |        |        |
| 65541 | 30    | 90     | 49     |        |    |      |        |        |
| 65542 | 32    |        | 50     |        |    | 1000 |        |        |
| 63902 | 33    |        |        |        |    |      |        |        |
| 63903 | 34    |        | 55     |        | 6  |      | 1      |        |
| 63904 | 35    |        |        | 23     |    |      |        |        |
| 65543 | 36    |        |        |        |    | 1050 |        |        |
| 65544 | 38    |        | 60     |        |    | 1100 |        |        |
| 57392 | 40    |        |        |        |    |      |        | -      |
| 63883 | 41    |        |        |        |    | 1200 |        |        |
| 63906 | 42    |        |        |        |    |      |        |        |
| 63907 | 43    |        | 65     | 40     |    | 1300 |        |        |
| 65546 | 46    |        |        |        |    |      |        |        |
| 57393 | 47    | 100    | 70     |        |    | 1500 |        |        |
| 65547 | 50    |        | 75     |        |    | 1600 |        |        |
| 63908 | 55    |        | 80     |        |    | 1900 |        |        |
| 63909 | 60    | 120    | 90     | 50     |    | 2500 |        |        |

⊕ DIN 3129

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-Mo

■ INCH



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | Pt | g    | Icon 1 | Icon 2 |
|-------|---------|--------|--------|--------|----|------|--------|--------|
| 58018 | 3/4     |        | 34     |        |    | 700  |        |        |
| 58019 | 13/16   |        | 36     |        |    |      |        |        |
| 58020 | 7/8     | 90     | 40     | 19     |    | 800  |        | •      |
| 58021 | 15/16   |        | 42     |        |    |      |        |        |
| 57398 | 1       |        | 43     |        |    |      |        |        |
| 57399 | 1.1/16  |        | 45     |        |    | 850  |        |        |
| 65274 | 1.1/8   |        | 48     | 30     |    |      |        |        |
| 65275 | 1.3/16  |        | 49     |        |    | 1200 |        |        |
| 65276 | 1.1/4   |        | 50     |        |    |      |        |        |
| 65277 | 1.5/16  |        |        |        |    |      |        |        |
| 65278 | 1.3/8   |        | 55     |        |    | 1250 |        |        |
| 65279 | 1.7/16  |        |        | 35     |    | 1300 |        |        |
| 65280 | 1.1/2   |        |        |        |    | 1350 |        |        |
| 65281 | 1.9/16  |        | 60     |        | 6  | 1400 | 1      |        |
| 65282 | 1.5/8   |        |        |        |    | 1450 |        |        |
| 65283 | 1.11/16 | 110    | 65     |        |    | 1550 |        |        |
| 65284 | 1.3/4   |        | 70     | 42     |    | 1600 |        | -      |
| 65285 | 1.13/16 |        |        |        |    | 1650 |        |        |
| 65286 | 1.7/8   |        |        |        |    |      |        |        |
| 57400 | 1.15/16 |        | 75     |        |    | 1700 |        |        |
| 65287 | 2       |        |        |        |    |      |        |        |
| 58022 | 2.1/16  |        | 78     |        |    | 1800 |        |        |
| 58023 | 2.1/8   |        |        |        |    |      |        |        |
| 58024 | 2.3/16  |        | 80     | 55     |    | 1900 |        |        |
| 58025 | 2.1/4   |        |        |        |    |      |        |        |
| 58026 | 2.5/16  | 120    | 85     |        |    | 2050 |        |        |
| 58027 | 2.3/8   |        |        | 60     |    | 2200 |        |        |
|       |         |        |        |        |    | 2400 |        |        |

⊕ DIN 3129

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

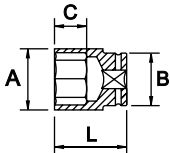
Cr-Mo

09

LLAVES DE VASO  
SOCKET WRENCHES  
DOUILLES  
STECKSCHLÜSSEL  
BUSSOLE  
CHAVES DE CAIXA  
ГОЛОВКИ



- 1"
- 8 PT.- 1"
- STANDARD
- INCH



| COD.  | inch    | L (mm) | A (mm) | B (mm) | C (mm) | Pt |      |   |   |
|-------|---------|--------|--------|--------|--------|----|------|---|---|
| 56377 | 7/8     |        | 50     |        | 15     |    | 695  |   |   |
| 56378 | 15/16   | 60     | 52     |        | 18     |    | 700  |   |   |
| 56379 | 1       |        | 54     |        | 19     |    | 715  |   |   |
| 56380 | 1.1/8   |        | 59     | 54     | 21     |    | 820  |   | • |
| 56381 | 1.3/16  | 62     | 61     |        | 22     |    | 850  |   |   |
| 56382 | 1.1/4   |        | 63     |        | 22     |    | 860  |   |   |
| 56383 | 1.5/16  |        | 66     |        | 22     |    | 905  |   |   |
| 56384 | 1.3/8   | 65     | 68     |        | 22     |    | 1085 |   |   |
| 56385 | 1.7/16  |        | 71     | 58     | 24     | 8  | 1200 | 1 |   |
| 56386 | 1.1/2   | 67     | 73     |        | 24     |    | 1225 |   |   |
| 56387 | 1.5/8   | 70     | 78     |        | 27     |    | 1365 |   |   |
| 56388 | 1.11/16 | 74     | 82     |        | 27     |    | 1710 |   |   |
| 56389 | 1.3/4   |        | 84     |        | 30     |    | 1720 |   |   |
| 56390 | 1.13/16 | 76     | 86     | 62     | 30     |    | 1830 |   |   |
| 56391 | 1.7/8   |        | 88     |        | 32     |    | 1850 |   |   |
| 56392 | 2       | 80     | 94     |        | 32     |    | 2200 |   |   |
| 56393 | 2.3/16  | 84     | 101    |        | 35     |    | 2655 |   |   |



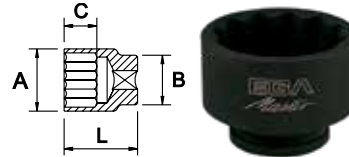
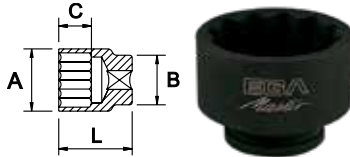
CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

BE SAFE...BE EFFICIENT

- 1"
- 12 PT.-1"
- STANDARD
- MM

- INCH



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt   | g  | Box | Case |
|-------|-------|--------|--------|--------|--------|------|----|-----|------|
| 53316 | 20    |        | 35     |        |        |      |    |     |      |
| 53317 | 21    |        | 36     |        |        |      |    |     |      |
| 53318 | 22    |        | 37     |        |        |      |    |     |      |
| 53319 | 23    | 55     | 38     | 55     | 25     | 700  |    |     |      |
| 53428 | 24    |        | 40     |        |        |      |    |     |      |
| 53320 | 25    |        | 41     |        |        |      |    |     |      |
| 53321 | 26    |        | 42     |        |        |      |    |     |      |
| 53429 | 27    |        | 45     |        |        |      |    |     |      |
| 53322 | 28    |        | 47     |        |        |      |    |     |      |
| 53323 | 29    |        | 48     |        |        |      |    |     |      |
| 53430 | 30    |        | 50     |        |        | 750  |    |     |      |
| 53324 | 31    |        |        |        |        |      |    |     |      |
| 53431 | 32    | 60     |        |        | 30     |      |    |     |      |
| 53312 | 33    |        | 55     |        |        | 800  |    |     |      |
| 53313 | 34    |        |        | 60     |        |      |    |     |      |
| 53314 | 35    |        |        |        |        | 850  |    |     |      |
| 53432 | 36    |        |        |        |        |      |    |     |      |
| 53325 | 37    |        | 60     |        |        |      |    |     |      |
| 53360 | 38    |        |        |        |        | 900  |    |     |      |
| 53326 | 39    |        |        |        |        |      |    |     |      |
| 53377 | 40    | 65     |        |        |        |      | 12 | 1   |      |
| 53361 | 41    |        | 65     |        |        | 950  |    |     |      |
| 53362 | 42    |        |        |        | 35     |      |    |     |      |
| 53327 | 44    |        |        |        |        | 1000 |    |     |      |
| 53328 | 45    |        |        |        |        |      |    |     |      |
| 53363 | 46    | 70     | 70     |        |        | 1300 |    |     |      |
| 53329 | 47    |        |        |        |        |      |    |     |      |
| 53379 | 48    |        | 75     |        |        | 1400 |    |     |      |
| 53364 | 50    |        |        |        |        | 1500 |    |     |      |
| 53365 | 52    |        |        |        |        |      |    |     |      |
| 53366 | 54    | 75     | 80     |        |        | 1600 |    |     |      |
| 53367 | 55    |        |        |        |        | 1680 |    |     |      |
| 53368 | 56    |        |        | 70     |        | 1700 |    |     |      |
| 53369 | 57    |        | 85     |        | 40     | 1800 |    |     |      |
| 53370 | 58    |        |        |        |        | 1900 |    |     |      |
| 53371 | 60    |        |        |        |        |      |    |     |      |
| 53372 | 62    | 85     | 90     |        |        | 2100 |    |     |      |
| 53373 | 63    |        |        |        |        |      |    |     |      |
| 53374 | 65    |        | 95     |        |        | 2200 |    |     |      |
| 53375 | 70    |        | 100    |        |        | 2500 |    |     |      |
| 53376 | 75    | 90     | 105    |        | 50     | 2800 |    |     |      |
| 53392 | 80    |        | 110    |        |        | 3000 |    |     |      |

| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt   | g  | Box | Case |
|-------|---------|--------|--------|--------|--------|------|----|-----|------|
| 53340 | 3/4     |        | 34     |        |        |      |    |     |      |
| 53341 | 13/16   |        | 35     |        |        |      |    |     |      |
| 53342 | 7/8     | 55     | 37     | 55     | 25     | 700  |    |     |      |
| 53343 | 15/16   |        | 40     |        |        |      |    |     |      |
| 53393 | 1       |        | 41     |        |        |      |    |     |      |
| 53394 | 1.1/16  |        | 45     |        |        |      |    |     |      |
| 53395 | 1.1/8   |        | 48     |        |        |      |    |     |      |
| 53396 | 1.3/16  |        | 50     |        |        | 750  |    |     |      |
| 53397 | 1.1/4   |        |        |        |        |      |    |     |      |
| 53398 | 1.5/16  | 60     | 55     |        |        | 800  |    |     |      |
| 53315 | 1.11/32 |        |        |        |        |      |    |     |      |
| 53399 | 1.3/8   |        |        | 60     | 30     | 850  |    |     |      |
| 53400 | 1.7/16  |        |        |        |        |      |    |     |      |
| 53401 | 1.1/2   |        | 60     |        |        | 900  |    |     |      |
| 53402 | 1.9/16  | 65     |        |        |        |      |    |     |      |
| 53403 | 1.5/8   |        |        |        |        | 950  |    |     |      |
| 53404 | 1.11/16 |        | 65     |        |        |      |    |     |      |
| 53405 | 1.3/4   |        | 70     |        |        | 1000 |    |     |      |
| 53406 | 1.13/16 | 70     | 70     |        | 35     | 1300 |    |     |      |
| 53407 | 1.7/8   |        |        |        |        | 1400 | 12 |     | 1    |
| 53441 | 1.15/16 |        | 75     |        |        |      |    |     |      |
| 53408 | 2       |        |        |        |        | 1500 |    |     |      |
| 53442 | 2.1/16  | 75     |        |        |        |      |    |     |      |
| 53409 | 2.1/8   |        | 80     |        |        | 1600 |    |     |      |
| 53410 | 2.1/4   |        | 85     |        |        | 1800 |    |     |      |
| 53443 | 2.5/16  |        |        |        | 40     |      |    |     |      |
| 53411 | 2.3/8   |        |        |        |        | 2100 |    |     |      |
| 53444 | 2.7/16  | 85     | 90     | 70     |        |      |    |     |      |
| 53412 | 2.1/2   |        |        |        |        |      |    |     |      |
| 53445 | 2.9/16  |        |        |        |        | 2150 |    |     |      |
| 53413 | 2.5/8   |        | 95     |        |        |      |    |     |      |
| 53344 | 2.11/16 |        |        |        |        |      |    |     |      |
| 53345 | 2.3/4   |        | 100    |        |        | 2500 |    |     |      |
| 53346 | 2.13/16 |        |        |        |        |      |    |     |      |
| 53347 | 2.7/8   | 90     | 105    |        | 50     | 2800 |    |     |      |
| 53348 | 2.15/16 |        |        |        |        |      |    |     |      |
| 53338 | 3       |        | 110    |        |        |      |    |     |      |
| 53339 | 3.1/8   |        |        |        |        | 3000 |    |     |      |
| 53349 | 3.3/16  |        | 115    |        |        |      |    |     |      |

● I DIN 3129

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

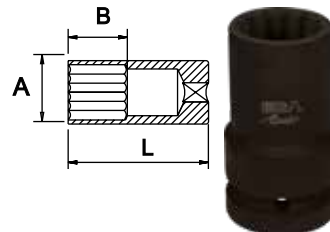
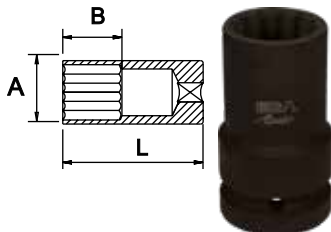
Cr-Mo

● I DIN 3129

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-Mo

- 1"
- 12 PT.-1"
- SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ
- MM
- INCH



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | Pt | g    | Icon 1 | Icon 2 |
|-------|-------|--------|--------|--------|----|------|--------|--------|
| 53330 | 20    |        | 35     | 25     |    | 800  |        |        |
| 53331 | 21    |        | 36     |        |    |      |        |        |
| 53380 | 22    |        | 37     |        |    |      |        |        |
| 53381 | 23    |        | 39     |        |    |      |        | •      |
| 53433 | 24    |        | 40     |        |    | 950  |        |        |
| 53332 | 25    |        | 42     | 30     |    |      |        |        |
| 53382 | 26    |        | 44     |        |    |      |        |        |
| 53434 | 27    |        | 46     |        |    |      |        |        |
| 53387 | 28    |        | 46     |        |    | 1000 |        |        |
| 53383 | 29    |        | 48     |        |    |      |        |        |
| 53435 | 30    |        | 50     |        |    |      |        |        |
| 53436 | 32    |        |        |        |    |      |        |        |
| 53384 | 33    | 100    | 55     | 35     | 12 | 1200 | 1      |        |
| 53385 | 34    |        |        |        |    |      |        |        |
| 53386 | 35    |        |        |        |    |      |        |        |
| 53437 | 36    |        | 60     |        |    |      |        |        |
| 53438 | 38    |        |        |        |    | 1400 |        |        |
| 53333 | 40    |        |        |        |    |      |        |        |
| 53378 | 41    |        | 65     |        |    | 1550 |        |        |
| 53388 | 42    |        |        | 40     |    |      |        |        |
| 53389 | 43    |        |        |        |    | 1600 |        |        |
| 53439 | 46    |        | 70     |        |    | 2100 |        |        |
| 53334 | 47    |        |        |        |    |      |        |        |
| 53440 | 50    |        | 75     | 45     |    | 2400 |        |        |
| 53390 | 55    |        | 80     | 50     |    | 2750 |        |        |
| 53391 | 60    |        | 90     |        |    | 2800 |        |        |

DIN 3129

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-Mo

| COD.  | AF inch | L (mm) | A (mm) | B (mm) | Pt | g    | Icon 1 | Icon 2 |
|-------|---------|--------|--------|--------|----|------|--------|--------|
| 53350 | 3/4     |        | 34     |        |    | 800  |        |        |
| 53351 | 13/16   |        | 35     |        |    |      |        | •      |
| 53352 | 7/8     |        | 37     |        |    |      |        |        |
| 53353 | 15/16   |        | 40     |        |    | 950  |        |        |
| 53335 | 1       |        | 43     | 30     |    |      |        |        |
| 53336 | 1.1/16  |        | 45     |        |    |      |        |        |
| 53414 | 1.1/8   |        | 48     |        |    | 1000 |        |        |
| 53415 | 1.3/16  |        | 50     |        |    |      |        |        |
| 53416 | 1.1/4   |        |        |        |    |      |        |        |
| 53417 | 1.5/16  |        | 55     |        |    |      |        |        |
| 53418 | 1.3/8   |        |        |        |    | 1200 |        |        |
| 53419 | 1.7/16  |        |        | 35     |    |      |        |        |
| 53420 | 1.1/2   |        | 60     |        |    | 1400 |        |        |
| 53421 | 1.9/16  | 100    |        |        | 12 | 1550 | 1      |        |
| 53422 | 1.5/8   |        | 65     |        |    |      |        |        |
| 53423 | 1.11/16 |        |        |        |    | 1600 |        |        |
| 53424 | 1.3/4   |        |        | 40     |    | 2100 |        |        |
| 53425 | 1.13/16 |        | 70     |        |    |      |        |        |
| 53426 | 1.7/8   |        |        |        |    | 2300 |        |        |
| 53337 | 1.15/16 |        |        |        |    |      |        |        |
| 53427 | 2       |        | 75     |        |    | 2400 |        |        |
| 53354 | 2.1/16  |        | 80     |        |    |      |        |        |
| 53355 | 2.1/8   |        |        |        |    |      |        |        |
| 53356 | 2.3/16  |        |        | 45     |    | 2750 |        |        |
| 53357 | 2.1/4   |        | 85     |        |    |      |        |        |
| 53358 | 2.5/16  |        |        |        |    | 2800 |        |        |
| 53359 | 2.3/8   |        | 90     |        |    |      |        |        |

DIN 3129

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**





Cr-Mo

1"

PUNTAS ATORNILLADORAS DE IMPACTO CON VASO / IMPACT SOCKET BITS / EMBOUTS DE VISSAGE CHOCS À DOUILLE / STECKSCHLÜSSEL BITS / INSERTI A BUSSOLA IMPACT /  
PONTAS APARAFUSADORAS DE IMPACTO COM CHAVE DE CAIXA / ГОЛОВКИ-БИТЫ УДАРНЫЕ





HEXAGONAL / HEXAGONAL / HEXAGONALE / HEXAGONAL / ESAGONALE / HEXAGONAL / ШЕСТИГРАННАЯ

MM

| COD.  |  mm | L (mm) |  g |  |  |
|-------|--------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 58741 | 10                                                                                   | 100    | 700                                                                                 | 10                                                                                | ●                                                                                   |
| 58742 | 12                                                                                   |        |                                                                                     |                                                                                   |                                                                                     |
| 58743 | 14                                                                                   |        |                                                                                     |                                                                                   |                                                                                     |
| 58744 | 17                                                                                   |        |                                                                                     |                                                                                   |                                                                                     |
| 58745 | 19                                                                                   |        |                                                                                     |                                                                                   |                                                                                     |
| 58746 | 22                                                                                   |        |                                                                                     |                                                                                   |                                                                                     |
| 58747 | 24                                                                                   |        |                                                                                     |                                                                                   |                                                                                     |
| 58748 | 27                                                                                   |        |                                                                                     |                                                                                   |                                                                                     |
| 58749 | 30                                                                                   |        |                                                                                     |                                                                                   |                                                                                     |
| 58750 | 32                                                                                   |        |                                                                                     |                                                                                   |                                                                                     |







INCH.

| COD.  |  inch | L (mm) |  g |  |  |
|-------|----------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53234 | 3/8                                                                                    | 100    | 700                                                                                 | 10                                                                                | ●                                                                                   |
| 53235 | 7/16                                                                                   |        |                                                                                     |                                                                                   |                                                                                     |
| 53236 | 1/2                                                                                    |        |                                                                                     |                                                                                   |                                                                                     |
| 53237 | 9/16                                                                                   |        |                                                                                     |                                                                                   |                                                                                     |
| 53238 | 5/8                                                                                    |        |                                                                                     |                                                                                   |                                                                                     |
| 53239 | 11/16                                                                                  |        |                                                                                     |                                                                                   |                                                                                     |
| 53240 | 3/4                                                                                    |        |                                                                                     |                                                                                   |                                                                                     |
| 53241 | 13/16                                                                                  |        |                                                                                     |                                                                                   |                                                                                     |
| 53242 | 7/8                                                                                    |        |                                                                                     |                                                                                   |                                                                                     |
| 53243 | 1                                                                                      |        |                                                                                     |                                                                                   |                                                                                     |
| 53244 | 1.1/16                                                                                 | 1000   | 950                                                                                 | -                                                                                 | -                                                                                   |
| 53245 | 1.1/8                                                                                  |        |                                                                                     |                                                                                   |                                                                                     |
| 53246 | 1.3/16                                                                                 |        |                                                                                     |                                                                                   |                                                                                     |
| 53247 | 1.1/4                                                                                  |        |                                                                                     |                                                                                   |                                                                                     |



TORX®\*

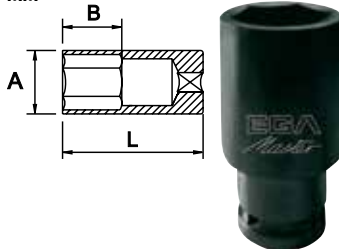
| COD.  |  | L (mm) |  g |  |  |
|-------|-------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53249 | T-50                                                                                | 100    | 700                                                                                   | 10                                                                                  | ●                                                                                     |
| 53250 | T-55                                                                                |        | 750                                                                                   |                                                                                     |                                                                                       |
| 53251 | T-60                                                                                |        | 850                                                                                   |                                                                                     |                                                                                       |
| 53252 | T-70                                                                                |        | 900                                                                                   |                                                                                     |                                                                                       |
| 53253 | T-80                                                                                |        | 950                                                                                   |                                                                                     |                                                                                       |
| 53254 | T-90                                                                                |        | 1050                                                                                  |                                                                                     |                                                                                       |
| 53255 | T-100                                                                               |        | 1150                                                                                  |                                                                                     |                                                                                       |







- 1.1/2"
- 6 PT. -1.1/2"
- SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ
- MM



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | Pt | Kg  |   |   |
|-------|-------|--------|--------|--------|----|-----|---|---|
| 56100 | 34    |        |        |        |    |     |   |   |
| 56101 | 35    |        |        |        |    | 2,8 |   |   |
| 56102 | 36    |        | 60     |        |    |     |   |   |
| 56103 | 38    | 120    |        | 31     |    | 2,9 |   |   |
| 56104 | 40    |        |        |        |    | 3,0 |   |   |
| 56105 | 41    |        | 70     |        |    |     |   |   |
| 56106 | 42    |        |        |        |    | 3,2 |   |   |
| 56107 | 43    |        |        |        |    | 3,3 |   |   |
| 56108 | 46    |        | 75     |        |    | 3,8 |   |   |
| 56109 | 50    |        | 80     | 33     |    | 4,0 |   |   |
| 56110 | 55    | 150    | 85     | 36     |    | 4,5 |   |   |
| 56111 | 60    |        | 90     |        |    | 5,0 |   |   |
| 56112 | 65    |        | 95     | 39     |    | 5,5 |   |   |
| 56113 | 70    |        | 105    | 40     |    | 6,5 |   |   |
| 56114 | 75    | 170    | 110    |        |    | 7,0 |   |   |
| 56115 | 77    |        | 115    | 42     | 6  | 7,5 | 1 | - |
| 56116 | 80    |        |        |        |    | 8,0 |   |   |
| 56117 | 85    |        | 120    | 50     |    | 8,5 |   |   |
| 56118 | 90    | 180    | 130    |        |    | 9,0 |   |   |
| 56119 | 95    |        | 135    | 55     |    | 9,5 |   |   |
| 56120 | 100   |        | 140    |        |    | 10  |   |   |
| 56121 | 105   |        | 145    |        |    | 11  |   |   |
| 56122 | 110   |        | 155    | 60     |    | 14  |   |   |
| 56123 | 115   | 190    | 160    |        |    | 16  |   |   |
| 56124 | 120   |        | 165    |        |    | 18  |   |   |
| 56125 | 125   |        | 175    | 75     |    | 19  |   |   |
| 56126 | 130   |        | 180    |        |    | 21  |   |   |
| 56127 | 135   |        | 185    |        |    | 22  |   |   |
| 56128 | 140   | 200    | 190    | 80     |    | 23  |   |   |
| 56129 | 145   |        | 195    |        |    | 24  |   |   |
| 56130 | 150   |        | 200    | 85     |    | 25  |   |   |

DIN 3129

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-Mo

INCH

| COD.  | AF inch | L (mm) | A (mm) | B (mm) | Pt | Kg  |   |   |
|-------|---------|--------|--------|--------|----|-----|---|---|
| 58041 | 1.5/16  |        | 62     |        |    | 2,7 |   |   |
| 56131 | 1.3/8   |        |        |        |    | 2,8 |   |   |
| 56132 | 1.7/16  |        | 65     |        |    |     |   |   |
| 56133 | 1.1/2   | 120    |        | 31     | 6  | 2,9 | 1 | - |
| 56134 | 1.9/16  |        | 70     |        |    | 3,0 |   |   |
| 56135 | 1.5/8   |        |        |        |    |     |   |   |
| 56136 | 1.11/16 |        | 75     |        |    | 3,1 |   |   |
| 56137 | 1.3/4   |        |        |        |    | 3,2 |   |   |

| COD.  | AF inch | L (mm) | A (mm) | B (mm) | Pt | Kg   |   |   |
|-------|---------|--------|--------|--------|----|------|---|---|
| 56138 | 1.13/16 |        |        |        |    |      |   |   |
| 56139 | 1.7/8   |        | 75     | 31     |    | 3,8  |   |   |
| 56140 | 1.15/16 |        |        | 33     |    |      |   |   |
| 56141 | 2       |        | 80     |        |    | 4,0  |   |   |
| 56142 | 2.1/16  |        |        |        |    |      |   |   |
| 56143 | 2.1/8   |        | 85     | 36     |    |      |   |   |
| 56144 | 2.3/16  | 150    |        |        |    | 4,5  |   |   |
| 56145 | 2.1/4   |        |        |        |    |      |   |   |
| 56146 | 2.5/16  |        | 90     |        |    |      |   |   |
| 56147 | 2.3/8   |        |        | 39     |    | 5,0  |   |   |
| 56148 | 2.7/16  |        |        |        |    |      |   |   |
| 56149 | 2.1/2   |        | 95     |        |    |      |   |   |
| 56150 | 2.9/16  |        |        |        |    | 5,5  |   |   |
| 56151 | 2.5/8   |        | 100    |        |    | 6,0  |   |   |
| 56152 | 2.11/16 |        |        | 40     |    | 6,5  |   |   |
| 56153 | 2.3/4   |        | 105    |        |    |      |   |   |
| 56154 | 2.13/16 |        |        |        |    |      |   |   |
| 56155 | 2.7/8   | 170    |        |        |    | 7,0  |   |   |
| 56156 | 2.15/16 |        |        |        |    |      |   |   |
| 56157 | 3       |        | 110    | 42     | 6  |      |   |   |
| 56158 | 3.1/16  |        |        |        |    |      |   |   |
| 56159 | 3.1/8   |        | 115    |        |    | 8,0  | 1 | - |
| 56160 | 3.3/16  |        |        |        |    |      |   |   |
| 56161 | 3.1/4   |        | 120    |        |    | 8,5  |   |   |
| 56162 | 3.5/16  |        |        | 50     |    |      |   |   |
| 56163 | 3.3/8   |        | 125    |        |    | 9,0  |   |   |
| 56164 | 3.7/16  |        |        |        |    |      |   |   |
| 56165 | 3.1/2   | 180    |        |        |    | 9,5  |   |   |
| 56166 | 3.9/16  |        | 130    |        |    |      |   |   |
| 56167 | 3.5/8   |        |        | 55     |    |      |   |   |
| 56168 | 3.11/16 |        | 135    |        |    |      |   |   |
| 56169 | 3.3/4   |        |        |        |    | 10,0 |   |   |
| 56170 | 3.13/16 |        |        |        |    |      |   |   |
| 56171 | 3.7/8   |        |        |        |    | 10,5 |   |   |
| 56172 | 3.15/16 |        | 140    |        |    |      |   |   |
| 56173 | 4       |        |        |        |    |      |   |   |
| 58042 | 4.1/16  |        | 143    |        |    | 11   |   |   |
| 58043 | 4.1/8   |        | 146    |        |    | 12   |   |   |
| 58044 | 4.3/16  |        | 148    |        |    | 13   |   |   |
| 58045 | 4.1/4   | 190    | 151    | 60     |    | 14   |   |   |
| 58046 | 4.5/16  |        | 153    |        |    | 14   |   |   |
| 58047 | 4.3/8   |        | 156    |        |    | 16   |   |   |
| 58048 | 4.1/2   |        | 160    |        |    | 17   |   |   |
| 58049 | 4.5/8   |        | 163    |        |    | 18   |   |   |
| 58050 | 4.3/4   |        | 166    | 77     |    |      |   |   |

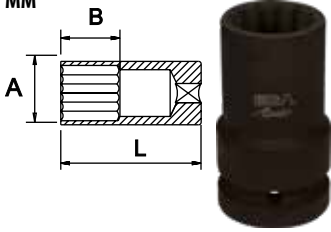
DIN 3129

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-Mo



- 1.1/2"
- 12 PT.- 1.1/2"
- SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ
- MM



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | Pt  | Kg | Box | Disp. |
|-------|-------|--------|--------|--------|-----|----|-----|-------|
| 53556 | 34    |        |        |        |     |    |     |       |
| 53557 | 35    |        |        |        | 2,8 |    |     |       |
| 53558 | 36    |        | 60     |        |     |    |     |       |
| 53559 | 38    | 120    |        |        | 2,9 |    |     |       |
| 53560 | 40    |        |        | 31     | 3   |    |     |       |
| 53561 | 41    |        | 70     |        |     |    |     |       |
| 53562 | 42    |        |        |        | 3,2 |    |     |       |
| 53563 | 43    |        |        |        | 3,3 |    |     |       |
| 53564 | 46    |        | 75     |        | 3,8 |    |     |       |
| 53565 | 50    |        | 80     | 33     |     |    |     |       |
| 53566 | 55    | 150    | 75     | 36     | 4   |    |     |       |
| 53567 | 60    |        | 90     |        |     |    |     |       |
| 53568 | 65    |        | 95     | 39     | 5   |    |     |       |
| 53569 | 70    |        | 105    | 40     | 6   |    |     |       |
| 53570 | 75    | 170    | 110    |        |     |    |     |       |
| 53571 | 77    |        |        | 42     | 7   | 1  | -   |       |
| 53572 | 80    |        | 115    |        |     |    |     |       |
| 53573 | 85    |        | 120    | 50     | 8   |    |     |       |
| 53574 | 90    | 180    | 130    | 55     | 9   |    |     |       |
| 53575 | 95    |        | 135    |        |     |    |     |       |
| 53576 | 100   |        | 140    |        | 10  |    |     |       |
| 53577 | 105   |        | 145    |        | 11  |    |     |       |
| 53578 | 110   |        | 155    | 60     | 14  |    |     |       |
| 53579 | 115   | 190    | 160    |        | 16  |    |     |       |
| 53580 | 120   |        | 165    |        | 18  |    |     |       |
| 53581 | 125   |        | 175    | 75     | 19  |    |     |       |
| 53582 | 130   |        | 180    |        | 21  |    |     |       |
| 53583 | 135   |        | 185    |        | 22  |    |     |       |
| 53584 | 140   | 200    | 190    | 80     | 23  |    |     |       |
| 53585 | 145   |        | 195    |        | 24  |    |     |       |
| 53586 | 150   |        | 200    | 85     | 25  |    |     |       |

DIN 3129

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

CrMo

■ INCH

| COD.  | AF inch | L (mm) | A (mm) | B (mm) | Pt  | Kg | Box | Disp. |
|-------|---------|--------|--------|--------|-----|----|-----|-------|
| 53641 | 1.5/16  |        | 60     | 30     | 2,7 |    |     |       |
| 53587 | 1.3/8   |        |        |        | 2,8 |    |     |       |
| 53588 | 1.7/16  |        | 65     |        |     |    |     |       |
| 53589 | 1.1/2   | 120    |        |        | 2,9 |    |     |       |
| 53590 | 1.9/16  |        |        |        |     |    |     |       |
| 53591 | 1.5/8   |        | 70     | 31     | 3   | 1  | -   |       |
| 53592 | 1.11/16 |        |        |        | 3,1 |    |     |       |
| 53593 | 1.3/4   |        | 75     |        | 3,2 |    |     |       |
| 53594 | 1.13/16 | 150    |        |        | 3,8 |    |     |       |

| COD.  | AF inch | L (mm) | A (mm) | B (mm) | Pt | Kg  | Box | Disp. |
|-------|---------|--------|--------|--------|----|-----|-----|-------|
| 53595 | 1.7/8   |        |        |        |    | 3,8 |     |       |
| 53596 | 1.15/16 |        | 75     | 31     |    |     |     |       |
| 53597 | 2       |        |        | 33     |    |     |     |       |
| 53598 | 2.1/16  |        | 80     |        | 4  |     |     |       |
| 53599 | 2.1/8   |        | 85     | 36     |    |     |     |       |
| 53600 | 2.3/16  |        |        |        |    |     |     |       |
| 53601 | 2.1/4   | 150    |        |        |    |     |     |       |
| 53602 | 2.5/16  |        | 90     |        |    |     |     |       |
| 53603 | 2.3/8   |        |        |        |    |     |     |       |
| 53604 | 2.7/16  |        |        | 39     | 5  |     |     |       |
| 53605 | 2.1/2   |        | 95     |        |    |     |     |       |
| 53606 | 2.9/16  |        |        |        |    |     |     |       |
| 53607 | 2.5/8   |        | 100    |        |    |     |     |       |
| 53608 | 2.11/16 |        |        |        |    | 6   |     |       |
| 53609 | 2.3/4   |        |        | 40     |    |     |     |       |
| 53610 | 2.13/16 |        | 105    |        |    |     |     |       |
| 53611 | 2.7/8   | 170    |        |        |    |     |     |       |
| 53612 | 2.15/16 |        |        |        | 7  |     |     |       |
| 53613 | 3       |        | 110    |        |    |     |     |       |
| 53614 | 3.1/16  |        |        | 42     |    |     |     |       |
| 53615 | 3.1/8   |        |        |        |    |     | 12  | 1     |
| 53616 | 3.3/16  |        | 115    |        |    |     |     |       |
| 53617 | 3.1/4   |        |        |        | 8  |     |     |       |
| 53618 | 3.5/16  |        | 120    |        |    |     |     |       |
| 53619 | 3.3/8   |        |        | 50     |    |     |     |       |
| 53620 | 3.7/16  |        | 125    |        |    |     |     |       |
| 53621 | 3.1/2   |        |        |        |    |     |     | 9     |
| 53622 | 3.9/16  | 180    |        |        |    |     |     |       |
| 53623 | 3.5/8   |        | 130    |        |    |     |     |       |
| 53624 | 3.11/16 |        |        | 55     |    |     |     |       |
| 53625 | 3.3/4   |        | 135    |        |    |     |     |       |
| 53626 | 3.13/16 |        |        |        |    |     |     | 10    |
| 53627 | 3.7/8   |        |        |        |    |     |     |       |
| 53628 | 3.15/16 |        | 140    |        |    |     |     |       |
| 53629 | 4       |        |        |        |    |     |     |       |
| 53642 | 4.1/16  |        |        |        |    |     |     | 11    |
| 53643 | 4.1/8   |        | 145    |        |    |     |     |       |
| 53644 | 4.3/16  |        |        | 60     |    |     |     | 12    |
| 53645 | 4.1/4   |        | 150    |        |    |     |     | 13    |
| 53646 | 4.5/16  | 190    |        |        |    |     |     | 14    |
| 53647 | 4.3/8   |        | 155    |        |    |     |     | 16    |
| 53648 | 4.1/2   |        | 160    |        |    |     |     | 17    |
| 53649 | 4.5/8   |        | 165    |        |    |     |     | 18    |
| 53650 | 4.3/4   |        |        | 75     |    |     |     |       |

DIN 3129

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES





CrMo

## 1.1/2"

**PUNTAS ATORNILLADORAS DE IMPACTO CON VASO / IMPACT SOCKET BITS / EMBOUTS DE VISSAGE CHOC À DOUILLE / STECKSCHLÜSSEL BITS / INSERTI A BUSSOLA IMPACT / PONTAS APARAFUSADORAS DE IMPACTO COM CHAVE DE CAIXA / ГОЛОВКИ-БИТЫ УДАРНЫЕ**





**HEXAGONAL / HEXAGONAL / HEXAGONALE / HEXAGONAL / ESAGONALE / HEXAGONAL / ШЕСТИГРАННАЯ**

## MM

| COD.  |  | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 53257 | 17                                                                                | 105    |                                                                                   |                                                                                   |                                                                                     |
| 53258 | 18                                                                                |        |                                                                                   |                                                                                   |                                                                                     |
| 53259 | 19                                                                                |        |                                                                                   |                                                                                   |                                                                                     |
| 53260 | 20                                                                                |        | 2,3                                                                               |                                                                                   |                                                                                     |
| 53261 | 21                                                                                |        |                                                                                   |                                                                                   |                                                                                     |
| 53262 | 22                                                                                | 110    |                                                                                   |                                                                                   |                                                                                     |
| 53263 | 23                                                                                |        |                                                                                   |                                                                                   |                                                                                     |
| 53264 | 24                                                                                |        | 2,4                                                                               |                                                                                   |                                                                                     |
| 53265 | 25                                                                                |        |                                                                                   |                                                                                   |                                                                                     |
| 53266 | 26                                                                                |        | 2,5                                                                               |                                                                                   |                                                                                     |
| 53267 | 27                                                                                |        |                                                                                   |                                                                                   |                                                                                     |
| 53268 | 28                                                                                |        |                                                                                   |                                                                                   |                                                                                     |
| 53269 | 29                                                                                |        | 2,6                                                                               |                                                                                   |                                                                                     |
| 53270 | 30                                                                                | 115    |                                                                                   |                                                                                   |                                                                                     |
| 53271 | 31                                                                                |        |                                                                                   |                                                                                   |                                                                                     |
| 53272 | 32                                                                                |        | 2,7                                                                               |                                                                                   |                                                                                     |
| 53273 | 33                                                                                |        |                                                                                   | 1                                                                                 | -                                                                                   |
| 53274 | 34                                                                                |        |                                                                                   |                                                                                   |                                                                                     |
| 53275 | 35                                                                                |        | 2,8                                                                               |                                                                                   |                                                                                     |
| 53276 | 36                                                                                | 120    |                                                                                   |                                                                                   |                                                                                     |
| 53277 | 37                                                                                |        |                                                                                   |                                                                                   |                                                                                     |
| 53278 | 38                                                                                |        | 2,9                                                                               |                                                                                   |                                                                                     |
| 53279 | 39                                                                                |        |                                                                                   |                                                                                   |                                                                                     |
| 53280 | 40                                                                                |        | 3,0                                                                               |                                                                                   |                                                                                     |
| 53281 | 41                                                                                | 125    | 3,1                                                                               |                                                                                   |                                                                                     |
| 53282 | 42                                                                                |        |                                                                                   |                                                                                   |                                                                                     |
| 53283 | 43                                                                                |        | 3,3                                                                               |                                                                                   |                                                                                     |
| 53284 | 44                                                                                |        |                                                                                   |                                                                                   |                                                                                     |
| 53285 | 45                                                                                | 130    | 3,4                                                                               |                                                                                   |                                                                                     |
| 53286 | 46                                                                                |        |                                                                                   |                                                                                   |                                                                                     |
| 53287 | 50                                                                                | 135    | 3,9                                                                               |                                                                                   |                                                                                     |
| 53288 | 55                                                                                | 140    | 4,5                                                                               |                                                                                   |                                                                                     |

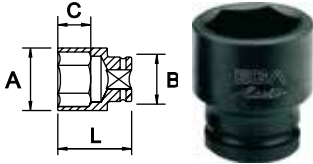


## INCH.

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53289 | 11/16                                                                               | 105    |                                                                                     |                                                                                     |                                                                                       |
| 53290 | 3/4                                                                                 |        | 2,3                                                                                 |                                                                                     |                                                                                       |
| 53291 | 13/16                                                                               |        |                                                                                     |                                                                                     |                                                                                       |
| 53292 | 7/8                                                                                 | 110    |                                                                                     |                                                                                     |                                                                                       |
| 53293 | 15/16                                                                               |        | 2,4                                                                                 |                                                                                     |                                                                                       |
| 53294 | 1                                                                                   |        | 2,5                                                                                 |                                                                                     |                                                                                       |
| 53295 | 1.1/16                                                                              |        |                                                                                     |                                                                                     |                                                                                       |
| 53296 | 1.1/8                                                                               |        | 2,6                                                                                 |                                                                                     |                                                                                       |
| 53297 | 1.3/16                                                                              | 115    |                                                                                     |                                                                                     |                                                                                       |
| 53298 | 1.1/4                                                                               |        | 2,7                                                                                 |                                                                                     |                                                                                       |
| 53299 | 1.5/16                                                                              |        |                                                                                     |                                                                                     |                                                                                       |
| 53300 | 1.3/8                                                                               |        | 2,8                                                                                 | 1                                                                                   | -                                                                                     |
| 53301 | 1.7/16                                                                              | 120    |                                                                                     |                                                                                     |                                                                                       |
| 53302 | 1.1/2                                                                               |        | 2,9                                                                                 |                                                                                     |                                                                                       |
| 53303 | 1.9/16                                                                              |        | 3,0                                                                                 |                                                                                     |                                                                                       |
| 53304 | 1.5/8                                                                               | 125    | 3,1                                                                                 |                                                                                     |                                                                                       |
| 53305 | 1.11/16                                                                             |        | 3,3                                                                                 |                                                                                     |                                                                                       |
| 53306 | 1.3/4                                                                               |        | 3,4                                                                                 |                                                                                     |                                                                                       |
| 53307 | 1.13/16                                                                             | 130    |                                                                                     |                                                                                     |                                                                                       |
| 53308 | 1.7/8                                                                               |        | 3,7                                                                                 |                                                                                     |                                                                                       |
| 53309 | 1.15/16                                                                             |        | 3,8                                                                                 |                                                                                     |                                                                                       |
| 53310 | 2                                                                                   | 135    | 3,9                                                                                 |                                                                                     |                                                                                       |
| 53311 | 2.3/16                                                                              | 140    | 4,5                                                                                 |                                                                                     |                                                                                       |



- 2.1/2"
- 6 PT. - 2.1/2"
- STANDARD
- MM



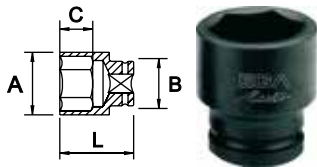
| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | Kg  |   |   |
|-------|-------|--------|--------|--------|--------|----|-----|---|---|
| 68817 | 41    |        | 80     |        |        |    |     |   |   |
| 68818 | 42    |        |        |        |        |    |     |   |   |
| 68819 | 46    |        | 85     |        |        |    |     |   |   |
| 68820 | 50    | 120    | 90     |        | 36     |    |     |   |   |
| 68821 | 55    |        | 95     |        |        |    | 7,5 |   |   |
| 68822 | 60    |        | 100    |        |        |    |     |   |   |
| 68823 | 65    |        | 105    |        |        |    |     |   |   |
| 65452 | 70    |        | 110    |        | 40     |    |     |   |   |
| 65453 | 75    | 125    | 120    |        | 45     |    |     |   |   |
| 65454 | 80    |        | 125    |        |        |    | 8,0 |   |   |
| 65455 | 85    | 130    | 130    |        | 50     |    | 8,5 |   |   |
| 65456 | 90    |        | 135    |        |        |    | 9,0 |   |   |
| 65457 | 95    | 140    | 140    |        | 55     |    | 11  |   |   |
| 65458 | 100   |        | 145    |        |        |    |     |   |   |
| 65459 | 105   | 145    | 155    |        | 60     |    | 13  |   |   |
| 65460 | 110   | 155    | 160    |        | 65     |    |     |   |   |
| 65461 | 115   | 160    | 165    |        |        |    | 15  |   |   |
| 65462 | 120   | 160    | 175    |        | 70     |    | 16  |   |   |
| 65463 | 125   | 165    | 180    | 130    | 75     | 6  | 18  | 1 | - |
| 65464 | 130   | 170    | 185    |        |        |    | 19  |   |   |
| 65465 | 135   | 175    | 190    |        |        |    |     |   |   |
| 65466 | 140   | 180    | 200    |        | 80     |    | 20  |   |   |
| 65467 | 145   | 185    | 210    |        |        |    |     |   |   |
| 65468 | 150   | 190    |        |        | 85     |    | 21  |   |   |
| 65469 | 155   | 195    | 220    |        |        |    | 25  |   |   |
| 65470 | 160   | 200    | 230    |        | 90     |    | 28  |   |   |
| 65471 | 165   |        |        |        |        |    | 30  |   |   |
| 65472 | 170   | 210    | 240    |        | 95     |    | 32  |   |   |
| 65473 | 175   |        |        |        |        |    | 35  |   |   |
| 65474 | 180   |        | 250    |        |        |    | 37  |   |   |
| 65475 | 185   | 220    | 260    |        | 110    |    | 40  |   |   |
| 65476 | 190   |        | 270    |        |        |    | 43  |   |   |
| 65477 | 200   |        |        |        |        |    | 46  |   |   |
| 68824 | 205   |        | 280    |        |        |    | 49  |   |   |
| 68825 | 210   | 230    | 290    |        | 120    |    | 55  |   |   |
| 68826 | 215   |        |        |        |        |    | 60  |   |   |
| 68827 | 220   |        | 300    |        |        |    |     |   |   |
| 68828 | 225   |        | 310    |        |        |    | 65  |   |   |

⊕ | DIN 3129

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-Mo

- 2.1/2"
- 6 PT. - 2.1/2"
- STANDARD
- INCH



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt  | Kg |   |  |
|-------|---------|--------|--------|--------|--------|-----|----|---|--|
| 68744 | 2       |        | 90     |        |        |     |    |   |  |
| 68745 | 2.1/16  |        |        |        |        |     |    |   |  |
| 68746 | 2.1/8   |        |        |        |        |     |    |   |  |
| 68747 | 2.3/16  |        | 95     |        |        |     |    |   |  |
| 68748 | 2.1/4   |        |        |        | 36     |     |    |   |  |
| 68749 | 2.5/16  | 120    |        |        |        | 7,5 |    |   |  |
| 68750 | 2.3/8   |        | 100    |        |        |     |    |   |  |
| 68751 | 2.7/16  |        |        |        |        |     |    |   |  |
| 68752 | 2.1/2   |        |        |        |        |     |    |   |  |
| 68753 | 2.9/16  |        | 105    |        |        |     |    |   |  |
| 68754 | 2.5/8   |        |        |        |        |     |    |   |  |
| 68755 | 2.11/16 |        |        |        | 40     |     |    |   |  |
| 68756 | 2.3/4   |        | 110    |        |        | 7,6 |    |   |  |
| 68757 | 2.13/16 |        |        |        |        |     |    |   |  |
| 68758 | 2.7/8   |        | 115    |        |        |     |    |   |  |
| 68759 | 2.15/16 |        |        |        | 45     | 7,7 |    |   |  |
| 68760 | 3       | 125    | 120    |        |        |     |    |   |  |
| 68761 | 3.1/16  |        |        |        |        |     |    |   |  |
| 68762 | 3.1/8   |        |        |        |        | 7,8 |    |   |  |
| 68763 | 3.3/16  |        | 125    |        |        |     |    |   |  |
| 68764 | 3.1/4   |        |        |        |        |     |    |   |  |
| 68765 | 3.5/16  |        |        |        | 50     |     |    |   |  |
| 68766 | 3.3/8   |        | 130    |        |        | 8,4 |    |   |  |
| 68767 | 3.7/16  | 130    |        |        |        |     |    |   |  |
| 68768 | 3.1/2   |        |        |        |        |     |    |   |  |
| 68769 | 3.9/16  |        | 135    |        |        | 8,8 |    |   |  |
| 68770 | 3.5/8   |        |        |        |        |     |    |   |  |
| 68771 | 3.11/16 |        | 130    |        | 55     | 6   |    | 1 |  |
| 68772 | 3.3/4   |        | 140    |        |        | 11  |    |   |  |
| 68773 | 3.13/16 | 140    |        |        |        |     |    |   |  |
| 68774 | 3.7/8   |        | 145    |        |        |     |    |   |  |
| 68775 | 3.15/16 |        | 150    |        |        |     |    |   |  |
| 68776 | 4       |        |        |        | 60     |     |    |   |  |
| 68777 | 4.1/16  |        |        |        |        |     |    |   |  |
| 68778 | 4.1/8   | 145    | 155    |        |        | 13  |    |   |  |
| 68779 | 4.3/16  |        |        |        |        |     |    |   |  |
| 68780 | 4.1/4   |        |        |        |        |     |    |   |  |
| 68781 | 4.5/16  | 155    | 160    |        | 65     |     |    |   |  |
| 68782 | 4.3/8   |        |        |        |        |     |    |   |  |
| 68783 | 4.1/2   |        | 165    |        |        |     |    |   |  |
| 68784 | 4.9/16  |        |        |        |        | 15  |    |   |  |
| 68785 | 4.5/8   | 160    | 170    |        |        |     |    |   |  |
| 68786 | 4.11/16 |        |        |        | 70     |     |    |   |  |
| 68787 | 4.3/4   |        | 175    |        |        | 16  |    |   |  |
| 68788 | 4.13/16 |        |        |        |        |     |    |   |  |
| 68789 | 4.7/8   | 165    | 180    |        | 75     | 18  |    |   |  |
| 68790 | 4.15/16 |        |        |        |        |     |    |   |  |
| 68791 | 5       | 170    | 185    |        |        | 19  |    |   |  |
| 68792 | 5.1/4   |        |        |        |        |     |    |   |  |
| 68793 | 5.5/16  | 175    | 190    |        | 80     |     |    |   |  |
| 68794 | 5.3/8   |        |        |        |        |     |    |   |  |
| 68795 | 5.1/2   | 180    | 200    |        |        | 20  |    |   |  |
| 68796 | 5.3/4   | 185    | 210    |        |        |     |    |   |  |
| 68797 | 6       |        |        |        | 85     |     |    |   |  |

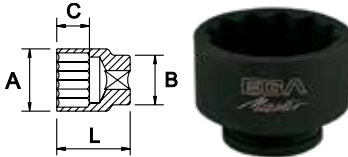
| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | Kg |   |    |
|-------|---------|--------|--------|--------|--------|----|----|---|----|
| 68798 | 6.1/4   |        | 220    |        |        |    |    |   |    |
| 68799 | 6.5/16  |        |        |        |        |    |    |   |    |
| 68800 | 6.3/8   | 200    | 230    |        | 90     | 28 |    |   |    |
| 68801 | 6.1/2   |        |        |        |        |    |    |   | 30 |
| 68802 | 6.3/4   | 210    | 240    |        | 95     | 32 |    |   |    |
| 68803 | 7       |        |        |        |        |    |    |   | 35 |
| 68804 | 7.1/4   |        | 250    |        | 110    |    |    |   |    |
| 68805 | 7.5/16  | 220    | 260    |        |        |    |    |   | 40 |
| 68806 | 7.3/8   |        |        | 130    |        |    | 6  | 1 |    |
| 68807 | 7.1/2   |        | 270    |        |        |    |    |   | 43 |
| 68808 | 7.3/4   |        |        |        |        |    |    |   | 49 |
| 68809 | 8       |        | 280    |        |        |    |    |   | 55 |
| 68810 | 8.1/4   |        |        |        | 120    |    |    |   |    |
| 68811 | 8.5/16  | 230    | 290    |        |        |    |    |   |    |
| 68812 | 8.3/8   |        |        |        |        |    |    |   | 60 |
| 68813 | 8.1/2   |        |        |        |        |    |    |   |    |
| 68814 | 8.3/4   |        | 300    |        |        |    |    |   | 65 |
| 68815 | 9       |        |        |        |        |    |    |   |    |


 I DIN 3129

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-Mo

- 2.1/2"
- 12 PT.- 2.1/2"
- STANDARD
- MM



| COD.  | AF mm |   | L (mm) | A (mm) | B (mm) | C (mm) | Pt | Kg | Box | List |
|-------|-------|---|--------|--------|--------|--------|----|----|-----|------|
|       | +     | - |        |        |        |        |    |    |     |      |
| 53823 | 41    |   |        | 80     |        |        |    | 7  |     |      |
| 53824 | 42    |   |        | 85     |        |        |    |    |     |      |
| 53825 | 46    |   |        | 90     |        | 36     |    |    |     |      |
| 53826 | 50    |   | 120    | 95     |        |        |    |    |     |      |
| 53827 | 55    |   |        | 100    |        |        |    |    |     |      |
| 53828 | 60    |   |        | 105    |        |        |    |    |     |      |
| 53829 | 65    |   |        | 110    |        | 40     |    | 8  |     |      |
| 53725 | 70    |   | 125    | 120    |        | 45     |    |    |     |      |
| 53726 | 75    |   |        | 130    |        | 50     |    | 9  |     |      |
| 53727 | 80    |   |        | 135    |        | 55     |    | 11 |     |      |
| 53728 | 85    |   | 140    | 140    |        | 60     |    | 13 |     |      |
| 53729 | 90    |   |        | 145    |        | 65     |    | 15 |     |      |
| 53730 | 95    |   | 150    | 150    |        | 70     |    | 16 |     |      |
| 53731 | 100   |   |        | 155    |        | 75     | 12 | 18 | 1   | -    |
| 53732 | 105   |   | 160    | 160    |        | 80     |    | 20 |     |      |
| 53733 | 110   |   |        | 165    |        | 85     |    | 21 |     |      |
| 53734 | 115   |   | 170    | 170    |        | 90     |    | 25 |     |      |
| 53735 | 120   |   |        | 175    |        | 95     |    | 27 |     |      |
| 53736 | 125   |   | 180    | 180    |        | 100    |    | 28 |     |      |
| 53737 | 130   |   |        | 185    |        | 110    |    | 30 |     |      |
| 53738 | 135   |   | 190    | 190    |        | 115    |    | 35 |     |      |
| 53739 | 140   |   |        | 195    |        | 120    |    | 37 |     |      |
| 53740 | 145   |   | 200    | 200    |        | 125    |    | 40 |     |      |
| 53741 | 150   |   |        | 205    |        | 130    |    | 43 |     |      |
| 53742 | 155   |   | 210    | 210    |        | 135    |    | 46 |     |      |
| 53743 | 160   |   |        | 215    |        | 140    |    | 49 |     |      |
| 53744 | 165   |   | 220    | 220    |        | 145    |    | 55 |     |      |
| 53745 | 170   |   |        | 225    |        | 150    |    | 60 |     |      |
| 53746 | 175   |   | 230    | 230    |        | 155    |    | 65 |     |      |
| 53747 | 180   |   |        | 235    |        | 160    |    |    |     |      |
| 53748 | 185   |   | 240    | 240    |        | 165    |    |    |     |      |
| 53749 | 190   |   |        | 245    |        | 170    |    |    |     |      |
| 53750 | 200   |   |        | 250    |        | 175    |    |    |     |      |
| 53830 | 205   |   |        | 255    |        | 180    |    |    |     |      |
| 53831 | 210   |   | 230    | 260    |        | 185    |    |    |     |      |
| 53832 | 215   |   |        | 265    |        | 190    |    |    |     |      |
| 53833 | 220   |   |        | 270    |        | 195    |    |    |     |      |
| 53834 | 225   |   |        | 275    |        | 200    |    |    |     |      |

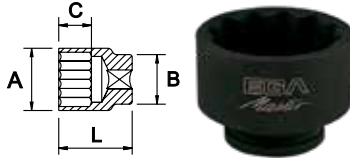
DIN 3129

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

CrMo



- 2.1/2"
- 12 PT.- 2.1/2"
- STANDARD
- INCH



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | Kg | Box | Carton |
|-------|---------|--------|--------|--------|--------|----|----|-----|--------|
| 53751 | 2       |        |        |        |        |    |    |     |        |
| 53752 | 2.1/16  |        | 90     |        |        |    |    |     |        |
| 53753 | 2.1/8   |        |        |        |        |    |    |     |        |
| 53754 | 2.3/16  |        | 95     |        |        |    |    |     |        |
| 53755 | 2.1/4   |        |        |        | 36     |    |    |     |        |
| 53756 | 2.5/16  | 120    |        |        |        |    |    |     |        |
| 53757 | 2.3/8   |        | 100    |        |        |    |    |     |        |
| 53758 | 2.7/16  |        |        |        |        |    |    |     |        |
| 53759 | 2.1/2   |        |        |        |        |    |    |     |        |
| 53760 | 2.9/16  |        | 105    |        |        |    |    |     |        |
| 53761 | 2.5/8   |        |        |        |        |    |    |     |        |
| 53762 | 2.11/16 |        |        |        | 40     |    | 8  |     |        |
| 53763 | 2.3/4   |        | 110    |        |        |    |    |     |        |
| 53764 | 2.13/16 |        |        |        |        |    |    |     |        |
| 53765 | 2.7/8   |        | 115    |        |        |    |    |     |        |
| 53766 | 2.15/16 |        |        |        |        |    |    |     |        |
| 53767 | 3       | 125    | 120    |        | 45     |    |    |     |        |
| 53768 | 3.1/16  |        |        |        |        |    |    |     |        |
| 53769 | 3.1/8   |        |        |        |        |    |    |     |        |
| 53770 | 3.3/16  |        | 125    |        |        |    |    |     |        |
| 53771 | 3.1/4   |        |        |        |        |    |    |     |        |
| 53772 | 3.5/16  |        |        |        | 50     |    |    |     |        |
| 53773 | 3.3/8   |        | 130    |        |        |    |    |     |        |
| 53774 | 3.7/16  | 130    |        |        |        |    |    |     |        |
| 53775 | 3.1/2   |        |        |        |        |    |    |     |        |
| 53776 | 3.9/16  |        | 135    |        |        | 9  |    |     |        |
| 53777 | 3.5/8   |        |        | 130    |        | 12 |    | 1   | -      |
| 53778 | 3.11/16 |        |        |        | 55     |    |    |     |        |
| 53779 | 3.3/4   |        | 140    |        |        | 11 |    |     |        |
| 53780 | 3.13/16 |        |        |        |        |    |    |     |        |
| 53781 | 3.7/8   | 140    |        |        |        |    |    |     |        |
| 53782 | 3.15/16 |        | 145    |        |        |    |    |     |        |
| 53783 | 4       |        | 150    |        |        |    |    |     |        |
| 53784 | 4.1/16  |        |        |        | 60     |    |    |     |        |
| 53785 | 4.1/8   | 145    | 155    |        |        | 13 |    |     |        |
| 53786 | 4.3/16  |        |        |        |        |    |    |     |        |
| 53787 | 4.1/4   |        | 160    |        |        |    |    |     |        |
| 53788 | 4.5/16  | 155    | 155    |        | 65     |    |    |     |        |
| 53789 | 4.3/8   |        | 160    |        |        |    |    |     |        |
| 53790 | 4.1/2   |        | 165    |        |        |    |    |     |        |
| 53791 | 4.9/16  |        |        |        |        | 15 |    |     |        |
| 53792 | 4.5/8   | 160    | 170    |        | 70     |    |    |     |        |
| 53793 | 4.11/16 |        |        |        |        |    |    |     |        |
| 53794 | 4.3/4   |        | 175    |        |        | 16 |    |     |        |
| 53795 | 4.13/16 |        |        |        |        |    |    |     |        |
| 53796 | 4.7/8   | 165    | 180    |        | 75     | 18 |    |     |        |
| 53797 | 4.15/16 |        |        |        |        |    |    |     |        |
| 53798 | 5       | 170    | 185    |        |        | 19 |    |     |        |
| 53799 | 5.1/4   |        |        |        |        |    |    |     |        |
| 53800 | 5.5/16  | 175    | 190    |        | 80     | 20 |    |     |        |
| 53801 | 5.3/8   |        |        |        |        |    |    |     |        |
| 53802 | 5.1/2   | 180    | 200    |        |        |    |    |     |        |
| 53803 | 5.3/4   | 185    | 210    |        | 85     |    |    |     |        |

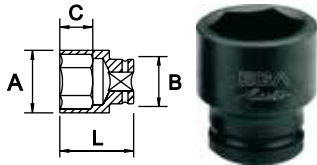
| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | Kg | Box | Carton |
|-------|---------|--------|--------|--------|--------|----|----|-----|--------|
| 53804 | 6       | 185    | 210    |        | 85     |    | 20 |     |        |
| 53805 | 6.1/4   |        | 220    |        |        |    |    |     |        |
| 53806 | 6.5/16  | 200    |        |        | 90     |    | 28 |     |        |
| 53807 | 6.3/8   |        | 230    |        |        |    |    |     |        |
| 53808 | 6.1/2   |        |        |        |        |    | 30 |     |        |
| 53809 | 6.3/4   | 210    | 240    |        | 95     |    | 32 |     |        |
| 53810 | 7       |        |        |        |        |    | 35 |     |        |
| 53811 | 7.1/4   |        | 250    |        | 110    |    |    |     |        |
| 53812 | 7.5/16  | 220    | 260    |        |        |    | 40 |     |        |
| 53813 | 7.3/8   |        |        | 130    |        | 12 |    | 1   | -      |
| 53814 | 7.1/2   |        | 270    |        |        |    | 43 |     |        |
| 53815 | 7.3/4   |        | 280    |        |        |    | 49 |     |        |
| 53816 | 8       |        |        |        |        |    | 55 |     |        |
| 53817 | 8.1/4   |        |        |        | 120    |    |    |     |        |
| 53818 | 8.5/16  | 230    | 290    |        |        |    | 60 |     |        |
| 53819 | 8.3/8   |        |        |        |        |    |    |     |        |
| 53820 | 8.1/2   |        | 300    |        |        |    | 65 |     |        |
| 53821 | 8.3/4   |        |        |        |        |    |    |     |        |
| 53822 | 9       |        |        |        |        |    |    |     |        |

DIN 3129

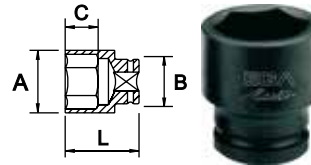
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

CrMo

- 3.1/2"
- 6 PT.- 3.1/2"
- STANDARD
- MM



- INCH



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | Kg  |   |   |
|-------|-------|--------|--------|--------|--------|----|-----|---|---|
| 67500 | 100   |        | 170    |        |        |    | 16  |   |   |
| 67501 | 105   | 180    | 175    |        | 100    |    | 17  |   |   |
| 67502 | 110   |        | 185    |        |        |    | 21  |   |   |
| 67503 | 115   | 200    | 190    |        | 115    |    | 24  |   |   |
| 67504 | 120   |        | 195    |        |        |    | 25  |   |   |
| 67505 | 125   |        | 200    | 180    | 120    |    | 28  |   |   |
| 67506 | 130   | 210    | 210    |        |        |    | 30  |   |   |
| 67507 | 135   |        | 220    |        | 125    |    | 34  |   |   |
| 67508 | 140   |        |        |        | 130    |    | 37  |   |   |
| 67509 | 145   | 220    | 230    |        |        |    | 39  |   |   |
| 67510 | 150   |        | 240    |        |        |    | 43  |   |   |
| 67511 | 155   |        |        |        | 135    |    | 45  |   |   |
| 67512 | 160   |        | 250    |        | 140    |    | 50  |   |   |
| 67513 | 165   | 230    | 260    |        |        |    | 55  |   |   |
| 67514 | 170   |        |        |        |        |    |     |   |   |
| 67515 | 175   |        | 270    | 200    | 145    |    | 60  |   |   |
| 67516 | 180   |        | 280    |        | 150    |    |     |   |   |
| 67517 | 185   | 240    |        |        |        | 65 |     |   |   |
| 67518 | 190   |        | 290    |        | 155    | 6  | 70  | 1 | - |
| 67519 | 195   |        | 300    |        |        |    |     |   |   |
| 67520 | 200   |        |        |        | 160    |    | 80  |   |   |
| 67521 | 205   | 250    |        |        |        |    |     |   |   |
| 67522 | 210   |        | 320    |        | 165    |    | 85  |   |   |
| 67523 | 215   |        | 330    |        |        |    |     |   |   |
| 67524 | 220   | 260    | 340    |        | 170    |    | 90  |   |   |
| 67525 | 225   |        |        |        |        |    | 95  |   |   |
| 67526 | 230   |        | 350    |        | 175    |    | 105 |   |   |
| 67527 | 235   | 270    | 360    |        |        |    |     |   |   |
| 67528 | 240   |        | 370    | 230    | 185    |    | 110 |   |   |
| 67529 | 245   |        |        |        |        |    | 115 |   |   |
| 67530 | 250   | 280    | 380    |        | 190    |    | 120 |   |   |
| 67531 | 255   |        | 390    |        |        |    | 125 |   |   |
| 67532 | 260   |        |        |        | 195    |    | 130 |   |   |
| 67533 | 265   | 290    | 400    |        |        |    | 135 |   |   |
| 67534 | 270   |        | 410    |        |        |    | 140 |   |   |
| 67535 | 275   |        | 420    |        | 200    |    | 145 |   |   |
| 67536 | 280   | 300    | 430    |        |        |    | 150 |   |   |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-Mo





| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | Kg  |   |   |
|-------|---------|--------|--------|--------|--------|----|-----|---|---|
| 68830 | 4       |        | 170    |        |        |    | 16  |   |   |
| 68831 | 4.1/16  |        | 175    |        |        |    |     |   |   |
| 68832 | 4.1/8   |        |        |        |        |    |     |   |   |
| 68833 | 4.3/16  | 180    |        |        | 100    |    | 17  |   |   |
| 68834 | 4.1/4   |        | 180    |        |        |    |     |   |   |
| 68835 | 4.5/16  |        |        |        |        |    |     |   |   |
| 68836 | 4.3/8   |        | 185    |        |        |    | 21  |   |   |
| 68837 | 4.1/2   |        |        |        |        |    |     |   |   |
| 68838 | 4.9/16  |        | 190    |        |        |    | 24  |   |   |
| 68839 | 4.5/8   |        |        |        |        |    |     |   |   |
| 68840 | 4.11/16 |        | 195    | 180    | 115    |    |     |   |   |
| 68841 | 4.3/4   | 210    |        |        |        |    | 25  |   |   |
| 68842 | 4.13/16 |        | 200    |        |        |    |     |   |   |
| 68843 | 4.7/8   |        |        |        |        |    |     |   |   |
| 68844 | 4.15/16 |        |        |        | 120    |    | 28  |   |   |
| 68845 | 5       | 210    |        |        |        |    |     |   |   |
| 68846 | 5.1/4   |        |        |        |        |    | 30  |   |   |
| 68847 | 5.5/16  |        | 220    |        | 125    |    | 34  |   |   |
| 68848 | 5.3/8   | 220    |        |        |        |    |     |   |   |
| 68849 | 5.1/2   |        |        |        | 130    |    | 37  |   |   |
| 68850 | 5.3/4   |        | 230    |        |        |    |     |   |   |
| 68851 | 6       | 240    |        |        | 135    |    | 43  |   |   |
| 68852 | 6.1/4   |        |        |        |        |    |     |   |   |
| 68853 | 6.5/16  | 230    | 250    |        | 140    | 6  | 50  | 1 | - |
| 68854 | 6.3/8   |        |        |        |        |    |     |   |   |
| 68855 | 6.1/2   |        | 260    |        |        |    | 55  |   |   |
| 68856 | 6.3/4   |        | 270    | 200    | 145    |    | 60  |   |   |
| 68857 | 7       |        |        |        |        |    |     |   |   |
| 68858 | 7.1/4   | 240    | 280    |        |        |    |     |   |   |
| 68859 | 7.5/16  |        |        |        | 150    |    | 66  |   |   |
| 68860 | 7.3/8   |        | 290    |        |        |    |     |   |   |
| 68861 | 7.1/2   |        |        |        |        |    |     |   |   |
| 68862 | 7.3/4   | 250    | 300    |        | 155    |    | 70  |   |   |
| 68863 | 8       |        | 310    |        | 160    |    | 80  |   |   |
| 68864 | 8.1/4   |        |        |        |        |    |     |   |   |
| 68865 | 8.5/16  |        | 320    |        | 165    |    | 85  |   |   |
| 68866 | 8.3/8   | 260    |        |        |        |    |     |   |   |
| 68867 | 8.1/2   |        | 330    |        |        |    | 90  |   |   |
| 68868 | 8.3/4   |        |        |        | 170    |    |     |   |   |
| 68869 | 9       |        | 350    |        |        |    | 105 |   |   |
| 68870 | 9.1/4   | 270    |        | 230    | 175    |    |     |   |   |
| 68871 | 9.5/16  |        | 360    |        |        |    | 110 |   |   |
| 68872 | 9.3/8   |        |        |        |        |    |     |   |   |
| 68873 | 9.1/2   |        | 370    |        | 185    |    |     |   |   |
| 68874 | 9.3/4   | 280    | 380    |        |        |    | 115 |   |   |
| 68875 | 10      |        | 390    |        | 190    |    | 125 |   |   |
| 68876 | 10.1/4  | 290    | 400    |        | 195    |    | 130 |   |   |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-Mo







**ADAPTADOR / ADAPTER / ADAPTATEUR / VERBINDUNGSTEIL / ADATTATORE / REDUTOR / АДАПТЕР**

| COD.  |  |  |  |  |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 60696 | 3/8-1/2                                                                           | 50                                                                                |                                                                                   |                                                                                    |
| 60698 | 1/2-3/8                                                                           | 110                                                                               |                                                                                   |                                                                                    |
| 60699 | 1/2-3/4                                                                           | 130                                                                               |                                                                                   |                                                                                    |
| 60700 | 3/4-1/2                                                                           | 370                                                                               | 6                                                                                 | •                                                                                  |
| 60701 | 3/4-1                                                                             | 410                                                                               |                                                                                   |                                                                                    |
| 60702 | 1-3/4                                                                             | 600                                                                               |                                                                                   |                                                                                    |





DIN 3121



| COD.  |  |  |  |  |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 68698 | 1-1.1/2                                                                           | 1100                                                                              |                                                                                   |                                                                                    |
| 65448 | 1.1/2-1                                                                           | 2100                                                                              |                                                                                   |                                                                                    |
| 65449 | 1.1/2-2.1/2                                                                       | 4000                                                                              | 6                                                                                 | •                                                                                  |
| 65478 | 2.1/2-1.1/2                                                                       | 4500                                                                              |                                                                                   |                                                                                    |





DIN 3121


**ARTICULACIÓN UNIVERSAL / UNIVERSAL JOINT / CARDAN UNIVERSEL / KARDANGELNENK / SNODO CARDANICO / CARDAN UNIVERSAL / ШАРНИР**

| COD.  |  |  |  |  |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 60704 | 3/8                                                                               | 80                                                                                | 6                                                                                 | •                                                                                  |
| 60705 | 1/2                                                                               | 180                                                                               |                                                                                   |                                                                                    |





DIN 3121



| COD.  |  |  |  |  |
|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 60706 | 3/4                                                                                 | 600                                                                                 | 4                                                                                   |                                                                                      |
| 60707 | 1                                                                                   | 1250                                                                                | 2                                                                                   |                                                                                      |
| 60708 | 1.1/2                                                                               | 3000                                                                                |                                                                                     | •                                                                                    |
| 60709 | 2.1/2                                                                               | 6000                                                                                | 1                                                                                   |                                                                                      |

DIN 3121


**ALARGADERA / EXTENSION / RALLONGE / VERLÄNGERUNG / PROLUNGA / EXTENÇÃO / УДЛИНИТЕЛЬ**

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 60710 | 3/8                                                                                 | 75     | 80                                                                                  |                                                                                     |                                                                                       |
| 60711 |                                                                                     | 125    | 220                                                                                 |                                                                                     |                                                                                       |
| 60713 |                                                                                     | 250    | 430                                                                                 |                                                                                     |                                                                                       |
| 57368 |                                                                                     | 100    | 450                                                                                 |                                                                                     |                                                                                       |
| 60714 |                                                                                     | 175    | 850                                                                                 | 6                                                                                   |                                                                                       |
| 57369 |                                                                                     | 250    | 1050                                                                                |                                                                                     |                                                                                       |
| 57370 |                                                                                     | 450    | 1900                                                                                |                                                                                     |                                                                                       |
| 57371 |                                                                                     | 600    | 2450                                                                                |                                                                                     | •                                                                                     |
| 57401 |                                                                                     | 150    | 1050                                                                                |                                                                                     |                                                                                       |
| 60716 |                                                                                     | 175    | 1500                                                                                |                                                                                     |                                                                                       |
| 57402 |                                                                                     | 250    | 1850                                                                                | 4                                                                                   |                                                                                       |
| 60717 |                                                                                     | 330    | 2550                                                                                |                                                                                     |                                                                                       |
| 57403 |                                                                                     | 450    | 3400                                                                                |                                                                                     |                                                                                       |
| 65450 |                                                                                     | 250    | 5500                                                                                |                                                                                     |                                                                                       |
| 65451 | 1.1/2                                                                               | 300    | 6500                                                                                | 1                                                                                   |                                                                                       |

DIN 3121



**ANILLA DE SEGURIDAD / SECURITY O-RING / BAGUES DE SECURITE / SICHERUNGSRING / ANELLO SPACCATO / ANEL DE SEGURANÇA / БЕЗОПАСНОЕ КОЛЬЦО**

| COD.  | AF<br>↓<br>inch<br>↑ | Rango (mm) / Range (mm) / Rang (mm) | g   |   |
|-------|----------------------|-------------------------------------|-----|---|
| 60724 | 3/4                  | 17-46                               | 5,0 | 6 |
| 60725 |                      | 50-60                               |     |   |
| 63274 | 1                    | 24-38                               | 10  |   |
| 60726 |                      | 38-70                               |     |   |
| 60727 |                      | 75-80                               |     |   |
| 60783 | 1.1/2                | 34-109                              | 20  |   |
| 61282 |                      | 110-150                             |     |   |
| 60784 | 2.1/2                | 41-70                               | 20  |   |
| 63275 |                      | 70-200                              |     |   |
| 63276 |                      | 200-225                             |     |   |


**PASADOR DE SEGURIDAD / SECURITY PIN / GOUPILLE DE SECURITE / SICHERUNGSTIFT / COPPIGLIA / PINO DE SEGURANÇA / ФИКСИРУЮЩИЙ ПАЛЕЦ**

| COD.  | AF<br>↓<br>inch<br>↑ | Rango (mm) / Range (mm) / Rang (mm) | g  |   |
|-------|----------------------|-------------------------------------|----|---|
| 60732 | 3/4                  | 17-46                               | 10 | 6 |
| 60733 |                      | 50-60                               |    |   |
| 63277 | 1                    | 24-38                               | 15 |   |
| 60734 |                      | 38-70                               |    |   |
| 60735 |                      | 75-80                               |    |   |
| 60767 | 1.1/2                | 34-110                              | 20 |   |
| 61054 |                      | 110-150                             |    |   |
| 63278 | 2.1/2                | 41-70                               | 25 |   |
| 60768 |                      | 70-200                              |    |   |
| 63279 |                      | 200-225                             |    |   |


**JUEGOS / SETS / COFFRETS / SÄTZE / ASSORTIMENTI / JOGOS / НАБОРЫ**
**1/2"**
**STANDARD**
**MM**

| COD.  | AF<br>↓<br>inch<br>↑ | PCS. | Pt | Kg  |
|-------|----------------------|------|----|-----|
| 60693 | 1/2                  | 10   | 6  | 3,5 |



| Composición / Composition / Composition                              | Descripción / Description / Description |                                  |                                                                                       |
|----------------------------------------------------------------------|-----------------------------------------|----------------------------------|---------------------------------------------------------------------------------------|
| 60606, 60607, 60609, 60610, 60612, 60613, 60614, 60615, 60616, 60618 | Llaves de vaso / Socket wrenches        | 13-14-16-17-19-21-22-24-27-30 mm |  |

| COD.  | AF<br>↓<br>inch<br>↑ | PCS. | Pt | Kg  |
|-------|----------------------|------|----|-----|
| 61265 | 1/2                  | 10   | 6  | 3,0 |

| Composición / Composition / Composition                              | Descripción / Description / Description |                                  |                                                                                       |
|----------------------------------------------------------------------|-----------------------------------------|----------------------------------|---------------------------------------------------------------------------------------|
| 60603, 60604, 60605, 60606, 60607, 60610, 60612, 60613, 60614, 60615 | Llaves de vaso / Socket wrenches        | 10-11-12-13-14-17-19-21-22-24 mm |  |




**INCH**

| COD.  | AF<br>↓<br>inch<br>↑ | PCS. | Pt | Kg  |
|-------|----------------------|------|----|-----|
| 61267 | 1/2                  | 11   | 6  | 3,2 |






| Composición / Composition / Composition                                     | Descripción / Description / Description |                                                              |                                                                                       |
|-----------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 65213, 65214, 65215, 65216, 65217, 65218, 65219, 65220, 65221, 65222, 65223 | Llaves de vaso / Socket wrenches        | 3/8"-7/16"-1/2"-9/16"-5/8"-11/16"-3/4"-13/16"-7/8"-15/16"-1" |  |




**SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ**
**MM**

| COD.                                                                 |  | PCS.                                                                                                                                                                   | Pt |  |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------|
| <b>61266</b>                                                         | 1/2                                                                               | 10                                                                                                                                                                     | 6  | 4,0                                                                                |
| <b>Composición / Composition / Composition</b>                       |                                                                                   | <b>Descripción / Description / Description</b>                                                                                                                         |    |                                                                                    |
| 60660, 60661, 60662, 60663, 60664, 60666, 60668, 60669, 60670, 60672 |                                                                                   | Llaves de vaso serie larga / Long socket wrenches 10-11-12-13-14-17-19-21-22-24 mm  |    |                                                                                    |





**INCH**

| COD.                                                                        |  | PCS.                                                                                                                                                                                               | Pt |  |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------|
| <b>61268</b>                                                                | 1/2                                                                               | 11                                                                                                                                                                                                 | 6  | 4,2                                                                                |
| <b>Composición / Composition / Composition</b>                              |                                                                                   | <b>Descripción / Description / Description</b>                                                                                                                                                     |    |                                                                                    |
| 55630, 55631, 55632, 55633, 55634, 55635, 55636, 55637, 55638, 55639, 55640 |                                                                                   | Llaves de vaso serie larga / Long socket wrenches 3/8"-7/16"-1/2"-9/16"-5/8"-11/16"-3/4"-13/16"-7/8"-15/16"-1"  |    |                                                                                    |





**3/4"**
**STANDARD**
**MM**

| COD.                                                   |  | PCS.                                                                                                                                              | Pt |  |
|--------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------|
| <b>60694</b>                                           | 3/4                                                                                | 8                                                                                                                                                 | 6  | 5,0                                                                                 |
| <b>Composición / Composition / Composition</b>         |                                                                                    | <b>Descripción / Description / Description</b>                                                                                                    |    |                                                                                     |
| 60625, 60626, 60628, 60629, 60630, 60632, 60633, 60634 |                                                                                    | Llaves de vaso / Socket wrenches 26-27-29-30-32-34-36-38 mm  |    |                                                                                     |






| COD.                                                   |  | PCS.                                                                                                                                              | Pt |  |
|--------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------|
| <b>61269</b>                                           | 3/4                                                                                 | 8                                                                                                                                                 | 6  | 5,0                                                                                  |
| <b>Composición / Composition / Composition</b>         |                                                                                     | <b>Descripción / Description / Description</b>                                                                                                    |    |                                                                                      |
| 60621, 60622, 60624, 60626, 60629, 60630, 60633, 60635 |                                                                                     | Llaves de vaso / Socket wrenches 21-22-24-27-30-32-36-41 mm  |    |                                                                                      |

**INCH**

| COD.                                                   |  | PCS.                                                                                                                                                                          | Pt |  |
|--------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------|
| <b>61271</b>                                           | 3/4                                                                                 | 8                                                                                                                                                                             | 6  | 5,0                                                                                  |
| <b>Composición / Composition / Composition</b>         |                                                                                     | <b>Descripción / Description / Description</b>                                                                                                                                |    |                                                                                      |
| 65231, 65232, 65233, 65235, 65236, 65237, 65238, 65239 |                                                                                     | Llaves de vaso / Socket wrenches 1"-1.1/16"-1.1/8"-1.1/4"-1.5/16"-1.3/8"-1.7/16"-1.1/2"  |    |                                                                                      |


**SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ**
**MM**




| COD.                                                   |  | PCS.                                                                                                                                                               | Pt |  |
|--------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------|
| <b>61270</b>                                           | 3/4                                                                                 | 8                                                                                                                                                                  | 6  | 6,0                                                                                  |
| <b>Composición / Composition / Composition</b>         |                                                                                     | <b>Descripción / Description / Description</b>                                                                                                                     |    |                                                                                      |
| 60680, 60681, 60682, 60684, 60685, 60686, 60689, 60691 |                                                                                     | Llaves de vaso serie larga / Long socket wrenches 21-22-24-27-30-32-36-41 mm  |    |                                                                                      |



## ■ 3/4"

## ■ SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

## ■ INCH




| COD.                                                   |  | PCS.                                              | Pt |                                                          |
|--------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>61272</b>                                           | 3/4                                                                               | 8                                                 | 6  | 6,0                                                                                                                                        |
| <b>Composición / Composition / Composition</b>         |                                                                                   | <b>Descripción / Description / Description</b>    |    |                                                                                                                                            |
| 65245, 65246, 65247, 65249, 65250, 65251, 57360, 65252 |                                                                                   | Llaves de vaso serie larga / Long socket wrenches |    | 1"-1.1/16"-1.1/8"-1.1/4"-1.5/16"-1.3/8"-1.7/16"-1.1/2"  |



## ■ 1"




## ■ STANDARD

## ■ MM

| COD.                                                          |  | PCS.                                           | Pt |                                 |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------|
| <b>61273</b>                                                  | 1                                                                                 | 9                                              | 6  | 7,5                                                                                                               |
| <b>Composición / Composition / Composition</b>                |                                                                                   | <b>Descripción / Description / Description</b> |    |                                                                                                                   |
| 65534, 65535, 65536, 65537, 65538, 60640, 60641, 60643, 60644 |                                                                                   | Llaves de vaso / Socket wrenches               |    | 24-27-30-32-36-38-41-46-50 mm  |






## ■ INCH

| COD.                                                          |  | PCS.                                           | Pt |                                                           |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------|----|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>61275</b>                                                  | 1                                                                                   | 9                                              | 6  | 7,5                                                                                                                                           |
| <b>Composición / Composition / Composition</b>                |                                                                                     | <b>Descripción / Description / Description</b> |    |                                                                                                                                               |
| 65253, 65255, 65257, 65258, 65261, 65263, 65265, 65267, 65268 |                                                                                     | Llaves de vaso / Socket wrenches               |    | 1"-1.1/8"-1.1/4"-1.5/16"-1.1/2"-1.5/8"-1.3/4"-1.7/8"-2"  |






## ■ SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

## ■ MM

| COD.                                                          |  | PCS.                                              | Pt |                                 |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------|----|---------------------------------------------------------------------------------------------------------------------|
| <b>61274</b>                                                  | 1                                                                                   | 9                                                 | 6  | 7,5                                                                                                                 |
| <b>Composición / Composition / Composition</b>                |                                                                                     | <b>Descripción / Description / Description</b>    |    |                                                                                                                     |
| 65539, 65540, 65541, 65542, 65543, 65544, 63883, 65546, 65547 |                                                                                     | Llaves de vaso serie larga / Long socket wrenches |    | 24-27-30-32-36-38-41-46-50 mm  |



## ■ INCH

| COD.                                                   |  | PCS.                                              | Pt |                                                           |
|--------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------|----|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>61276</b>                                           | 1                                                                                   | 9                                                 | 6  | 11                                                                                                                                            |
| <b>Composición / Composition / Composition</b>         |                                                                                     | <b>Descripción / Description / Description</b>    |    |                                                                                                                                               |
| 65274, 65276, 65277, 65280, 65282, 65284, 65286, 65287 |                                                                                     | Llaves de vaso serie larga / Long socket wrenches |    | 1"-1.1/8"-1.1/4"-1.5/16"-1.1/2"-1.5/8"-1.3/4"-1.7/8"-2"  |



# PROYECTOS PRINCIPALES

## *MAIN PROJECTS*

# PRINCIPAUX PROJETS



**SAIPOL**

**HERRAMIENTA ANTICHISPA / NON-SPARKING  
TOOLS / OUTILLAGE ANTIDÉFLAGRANT**

FRANCIA / FRANCE





10

APRIETE CONTROLADO  
CONTROLLED TIGHTENING  
SERRAGE CONTROLÉ  
KONTROLLIERTES ANZIEHEN  
CONTROLLO DI SERRAGGIO  
APERTO CONTROLADO  
КОНТРОЛИРУЕМАЯ ЗАТЯЖКА



EGATORAK

## EGATORIK

En muchos procesos de producción y mantenimiento es necesario realizar un control estadístico sobre los aprietes realizados. Este control se lleva comúnmente a cabo volviendo a apretar las tuercas hasta que las mismas presentan un desplazamiento y anotando el par al que las tuercas han comenzado a desplazarse. La lectura del par depende de la habilidad del usuario, ya que se debe simultanear la realización de un esfuerzo de apriete progresivo y cuidadoso; la sensación de movimiento y la lectura del par en ese preciso instante; dificultando todo ello un registro preciso del par original y, por tanto, estas mediciones pueden presentar desviaciones importantes sobre el par real que se pretende medir.

Para eliminar todos estos factores que añaden imprecisión a la lectura, EGA Master ha desarrollado sus llaves dinamométricas de control de par que registran el par de apriete original de la tuerca mediante un innovador sistema que registra el par en el mismo momento que la tuerca comienza a girar, gracias a su sensor de giro angular (registrando el valor de par cuando detecta un giro de 3°).

El par conseguido depende de la velocidad de apriete; cuando más lento se realice el apriete, más preciso será el resultado. El display mostrará un mensaje de error si se realiza demasiado rápido.

*In many maintenance and production processes it is necessary to conduct statistical control over previously tightened fasteners. This control is generally carried out by re-tightening the screws until they show a displacement (called the just move test) and recording the torque just at the point the fastener began to move. The accuracy of the recorded torque depends on the abilities of the user, since it is necessary to perform the tightening operation in a progressive and careful manner; the movement of the fastener and the torque reading occur at the same time; making the precise recording of the original torque even more difficult, so the actual values recorded in this manner can represent a considerable deviation in the real torque that was intended to be measured.*

*In order to overcome these factors which lead to reading inaccuracies, EGA Master has developed its torque checking wrenches. They register the original tightening torque of the fastener by means of an innovative system that registers the torque at the same time that the fastener starts to turn, thanks to its rotation angle sensor (registering the torque's value when it detects a turn of 3°).*

*The measured torque depends on the speed of the operation: the slower the operation, the more precise the result will be. The display might show an error message if the process is carried out too fast.*

Dans beaucoup de processus de production et de maintenance, il est nécessaire de réaliser un contrôle statistique sur les serrages réalisés. Ce contrôle se mène généralement à bien en serrant à nouveau les écrous jusqu'à ce que ces derniers montrent un léger déplacement, et en notant le couple à partir de laquelle les écrous ont commencé à se déplacer. La lecture du couple dépend de l'habileté de l'utilisateur, puisque il faut assurer à la fois la réalisation d'un serrage progressif et d'une grande attention; la sensation de mouvement et la lecture du couple à cet instant précis. La difficulté est augmentée par un registre précis du couple originale, ainsi que toutes ces mesures peuvent présenter des déviations importantes sur le couple réel que l'on prétend mesurer.

Pour éliminer tous les facteurs qui ajoutent de l'imprécision à la lecture, EGA Master a développé ses clés dynamométriques de contrôle de couple, qui enregistre le couple de serrage original de l'écrou, grâce à un système innovateur qui enregistre le couple au même moment que l'écrou se met à tourner, grâce à son capteur de rotation angulaire (qui enregistre la valeur du couple quand il détecte une rotation de 3°).

Le couple atteint dépend de la rapidité du serrage; plus le serrage se réalise lentement, plus le résultat sera précis. L'écran affichera un message d'erreur si ce serrage s'effectue trop rapidement.



1

Sistema de grabación y comunicación de datos (para los modelos con cable para la comunicación).

*Data recording and communication system (for models with communication cable).*

Système de mémoire et de communication (pour les modèles équipés d'un câble).

2

Sistema de aviso sonoro y luminoso para 9 valores prefijados.

*Audible and light warning system for the 9 pre-setting torques.*

Système de Bip sonore et lumineux pour 9 valeurs pré-sélectionnées

3

Encendido progresivo de leds luminosos al acercarse al valor prefijado.

*Progressive switching on of the light leds to approach the pre-set value.*

Luz progresiva por Leds en s'aproximant de la valeur sélectionnée.

4

Dos modos de medida: M1: para la verificación de pares de apriete y M2: para modos de operación Peak (valor máximo de torsión) & Track (valor de torsión actual).

*There are two measurement modes: M1: for the verification of tightening torque and M2: for Peak (maximum torque value) & Track (current torque value).*

Deux modes de mesure: M1 : pour la vérification de paire de serrage et M2 : pour les modes d'opération Peak (valeur maximale de torsion) & Track (valeur de torsion actuelle).

5

Almacenamiento de hasta 250 valores.

*It can store up to 250 values.*

Capacité de stockage jusqu'à 250 valeurs.

6

Equipadas con mangos ergonómicos y antideslizantes.

*Oversized ergonomic & anti-slippery handles.*

Equipées de manches ergonomiques et anti-dérapants.

7

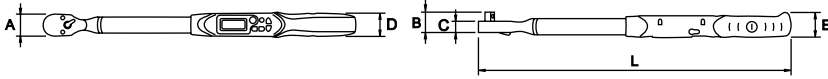
Calibración vía web 24 h.

*24h web calibration system.*

Ajustement en 24 heures par le Web.

# EGAMASTER

## LLAVE DINAMOMÉTRICA DIGITAL PARA CONTROL DE PAR / TORQUE CHECKING QC WRENCHES / CLÉ DIGITALE DYNAMOMÉTRIQUE POUR CONTRÔLE DE COUPLE / DIGITALE DREHMOMENTSCHLÜSSEL MIT DREHMOMENTREGELUNG / CHIAVE DINAMOMETRICA DIGITALE PER IL CONTROLLO DELLA COPPIA / CHAVE DINAMOMÉTRICA DIGITAL PARA CONTROLO DE PAR / ЦИФРОВОЙ ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ



| COD.  | AF<br>inch | N.m     | Lb.ft  | Lb.in    | Kg.cm    | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | Kg  |   |
|-------|------------|---------|--------|----------|----------|--------|--------|--------|--------|--------|--------|-----|---|
| 56095 | 1/4        | 1,5-30  | 1-22   | 13-265   | 15-306   | 390    | 23     | 19     | 11     |        |        | 1,4 |   |
| 56096 | 3/8        | 6,8-135 | 5-100  | 60-1195  | 69-1378  | 415    | 30     | 27     | 15     |        |        | 1,5 |   |
| 56097 | 1/2        | 10-200  | 7-148  | 88-1770  | 102-2041 | 530    | 41     | 35     | 19     | 39     | 44     | 2,1 | 1 |
| 56098 |            | 17-340  | 12-251 | 150-3009 | 173-3469 | 650    |        |        |        |        |        |     |   |



12M


| COD.  | Precisión CW (a derechas) / Accuracy CW (clockwise) / Précision CW (sens horaire) | Precisión CCW (a izquierdas) / Accuracy CCW (counter clockwise) / Précision CCW (sens anti-horaire) | Resolución / Resolution / Résolution          | Memoria de datos / Data memory / Memoire de données | Comunicación de datos al ordenador / Data communication to the computer / Transmission de données à l'ordinateur | Cable para la comunicación de datos / Cable for data communication / Transmission de données |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 56095 |                                                                                   |                                                                                                     | 0,01 N.m / 0,01 Lb.ft / 0,1 Lb.in / 0,1 Kg.cm |                                                     |                                                                                                                  |                                                                                              |
| 56096 | ±1%                                                                               | ±2%                                                                                                 | 0,01 N.m / 0,01 Lb.ft / 0,1 Lb.in / 0,1 Kg.cm | 250                                                 | ●                                                                                                                | ●                                                                                            |
| 56097 |                                                                                   |                                                                                                     | 0,1 N.m / 0,1 Lb.ft / 1 Lb.in / 1 Kg.cm       |                                                     |                                                                                                                  |                                                                                              |
| 56098 |                                                                                   |                                                                                                     | 0,1 N.m / 0,1 Lb.ft / 1 Lb.in / 1 Kg.cm       |                                                     |                                                                                                                  |                                                                                              |

### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                                            |                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certificado de calibración / Calibration certificate / Certificat de calibrage                                                                             | ●                                                                                                                                                                                    |
| Reversible / Reversible / Réversible                                                                                                                       | ●                                                                                                                                                                                    |
| Dientes / Teeth / Dents                                                                                                                                    | 36                                                                                                                                                                                   |
| Sistema de aviso / Warning system / Système d'alerte                                                                                                       | Alarma luminosa y sonora / Audible and light alarm / Alarme lumineuse et sonore                                                                                                      |
| Modo de operación / Operation mode / Mode d'opération                                                                                                      | M1: Verificación de pares de apriete - M2: Peak/Track* / M1: Verification of tightening torque - M2: Peak/Track* / M1: Pour la vérification de la forge de serrage - M2: Peak/Track* |
| Unidades de medida / Unit selection / Unités de mesure                                                                                                     | N.m / Lb.ft / Lb.in / Kg.cm                                                                                                                                                          |
| Cd con los programas para la comunicación de datos / Cd with the programs for data communication / Cd avec les programmes pour la communication de données | ●                                                                                                                                                                                    |
| Calibración vía web / Web calibration / Calibrage par l'intermédiaire de web                                                                               | ●                                                                                                                                                                                    |
| Baterías / Batteries / Piles                                                                                                                               | AA x 2                                                                                                                                                                               |
| Duración de la batería / Battery operation time / Durée de fonction de batterie                                                                            | 110 h                                                                                                                                                                                |
| Duración de la batería (standby) / Battery life (standby) / Durée de fonction de batterie (standby)                                                        | 1 año / 1 year / 1 année                                                                                                                                                             |
| Temperatura de trabajo / Working temperature / Température de travail                                                                                      | -10 °C ~ 60 °C                                                                                                                                                                       |
| Temperatura de almacenamiento / Storage temperature / Température de stockage                                                                              | -20 °C ~ 70 °C                                                                                                                                                                       |

\* : Modo Track: Valor de torsión actual - Modo Peak: Valor máximo de torsión / Track mode: Direct torque value - Peak mode: Max. torque Value / Mode Track: Valeur de torsion actuelle - Mode Peak: Valeur maximum de torsion

### ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ

| COD.  | Descripción / Description / Description |  (m) |
|-------|-----------------------------------------|-----------------------------------------------------------------------------------------|
| 57573 | Cable USB / USB cable / Câble USB       | 1,2                                                                                     |



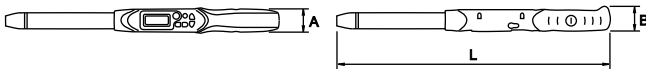
• Posibilidad de suministrar con certificado de calibración externa ENAC / ENAC calibration certificate can be issued on demand / Possibilité de fournir avec le certificat d'étalonnage externe ENAC  
**12M** GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

# EGATORAK

**LLAVE DINAMOMÉTRICA DIGITAL CON MEDICION DE PAR Y ÁNGULO CON COMUNICACIÓN DE DATOS RF WIRELESS / RF WIRELESS DATA COMMUNICATION TORQUE AND ANGLE DIGITAL WRENCHES / CLÉ DYNAMOMÉTRIQUE DIGITAL AVEC MESURE D'ANGLE ET DE COUPLE AVEC COMMUNICATION DE DONNÉES RF SANS FIL / DRAHTLOSE HF-DATENKOMMUNIKATION DIGITALE DREHMOMENT- UND WINKELSCHLÜSSEL / CHIAVE DINAMOMETRICA DIGITALE CON MISURAZIONE DI COPPIA E ANGOLO CON COMUNICAZIONE DATI RF WIRELESS / CHAVE DINAMOMÉTRICA DIGITAL COM MEDIÇÃO DE BINÁRIO E ÂNGULO COM COMUNICAÇÃO DE DADOS RF WIRELESS / ЦИФРОВОЙ ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ С ИЗМЕРЕНИЕМ КРУТЯЩЕГО МОМЕНТА И УГЛА И С БЕСПРОВОДНОЙ РАДИОЧАСТОТНОЙ ПЕРЕДАЧЕЙ ДАННЫХ**

**LLAVE DINAMOMÉTRICA DE CABEZAS INTERCAMBIABLES / INTERCHANGEABLE HEAD TORQUE WRENCHES / CLÉ DYNAMOMÉTRIQUE À TÊTES INTERCHANGEABLES / AUSWECHSELBARE KOPFDREHMOMENTSCHLÜSSEL / CHIAVE DINAMOMETRICA CON TESTE INTERCAMBIABILI / CHAVE DINAMOMÉTRICA DE CABEÇAS INTERCAMBIÁVEIS / ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ СО СМЕННЫМИ НАСАДКАМИ**

## STANDARD



| COD.  | mm    | N.m      | Lb.ft    | Lb.in      | Kg.cm      | L (mm) | A (mm) | B (mm) | V      | Kg  | Box |
|-------|-------|----------|----------|------------|------------|--------|--------|--------|--------|-----|-----|
| 58764 | 9x12  | 1,5-30   | 1-22     | 13-265     | 15-306     | 360    | 39     | 44     | 1-360° | 1,4 | 1   |
| 58765 |       | 6,8-135  | 5-100    | 60-1195    | 69-1378    | 375    |        |        |        |     |     |
| 58766 | 14x18 | 17-340   | 12-251   | 150-3009   | 173-3469   | 590    | 44     | 44     | 1-360° | 1,6 | 1   |
| 59130 |       | 25 - 500 | 18 - 369 | 221 - 4424 | 255 - 5102 | 880    |        |        |        |     |     |



12M

| COD.  | Precisión CW (a derechas) / Accuracy CW (clockwise) / Précision CW (sens horaire) | Precisión CCW (a izquierdas) / Accuracy CCW (counter clockwise) / Précision CCW (sens anti-horaire) | Resolución / Resolution / Résolution               | Memoria de datos / Data memory / Memoire de données | Comunicación de datos al ordenador / Data communication to the computer / Transmission de données à l'ordinateur |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| 58764 | ±2%                                                                               | ±3%                                                                                                 | 0,01 N.m / 0,01 Lb.ft / 0,1 Lb.in / 0,1 Kg.cm / 1° | 2000                                                | RF WIRELESS                                                                                                      |
| 58765 |                                                                                   |                                                                                                     | 0,1 N.m / 0,1 Lb.ft / 1 Lb.in / 1 Kg.cm / 1°       |                                                     |                                                                                                                  |
| 58766 | ±2,5%                                                                             | ±3,5%                                                                                               | 0,1 N.m / 0,1 Lb.ft / 1 Lb.in / 1 Kg.cm / 1°       | 2000                                                | RF WIRELESS                                                                                                      |
| 59130 |                                                                                   |                                                                                                     |                                                    |                                                     |                                                                                                                  |

## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                                                                        |                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certificado de calibración / Calibration certificate / Certificat de calibrage                                                                                                         | ●                                                                                                                                                                                          |
| Sistema de aviso / Warning system / Système d'alerte                                                                                                                                   | Alarma luminosa y sonora / Audible and light alarm / Alarme lumineuse et sonore                                                                                                            |
| Unidades de medida / Unit selection / Unités de mesure                                                                                                                                 | N.m / Lb.Ft / Lb.in / Kg.cm / °                                                                                                                                                            |
| Calibración vía web / Web calibration / Calibrage par l'intermédiaire de web                                                                                                           | ●                                                                                                                                                                                          |
| Baterías / Batteries / Piles                                                                                                                                                           | AA x 2                                                                                                                                                                                     |
| Duración de la batería / Battery operation time / Durée de fonction de batterie                                                                                                        | 110 h                                                                                                                                                                                      |
| Duración de la batería (standby) / Battery life (standby) / Durée de fonction de batterie (standby)                                                                                    | 1 año                                                                                                                                                                                      |
| Temperatura de trabajo / Working temperature / Température de travail                                                                                                                  | -10 °C ~ 60 °C                                                                                                                                                                             |
| Temperatura de almacenamiento / Storage temperature / Température de stockage                                                                                                          | -20 °C ~ 70 °C                                                                                                                                                                             |
| Distancia máxima de comunicación entre el receptor y la llave / Maximum distance between the receiver and the wrench / Distance maximale de communication entre le récepteur et la clé | 100 m (Se podrá ver reducida dependiendo el entorno) / 100 m (This distance could be reduced depending on the environment) / 100 m (Elle peut être réduite en fonction de l'environnement) |
| Banda de frecuencia / Frequency band / Bande de fréquence                                                                                                                              | ISM 433 MHz                                                                                                                                                                                |
| Dimensiones unión / Joint Dimensions / Dimension de l'union                                                                                                                            |                                                                                                                                                                                            |
|                                                                                                                                                                                        | 58764 9 x 12 mm                                                                                                                                                                            |
|                                                                                                                                                                                        | 58765 9 x 12 mm                                                                                                                                                                            |
|                                                                                                                                                                                        | 58766 14 x 18 mm                                                                                                                                                                           |
|                                                                                                                                                                                        | 59130 14 x 18 mm                                                                                                                                                                           |

# 10

**APRIETE CONTROLADO**  
**CONTROLLED TIGHTENING**  
**SERRAGE CONTRÔLÉ**  
**KONTROLLIERTES ANZIEHEN**  
**CONTROLLO DI SERRAGGIO**  
**APERTO CONTROLADO**  
**КОНТРОЛИРУЕМАЯ ЗАТЯЖКА**



## EGAMASTER

■ **SERIE LARGA / LONG SERIE / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ДЛИННЫЙ**



| COD.         | mm    | N.m      | Lb.ft   | ∇      | L (mm) | A (mm) | Kg |   |
|--------------|-------|----------|---------|--------|--------|--------|----|---|
| <b>59131</b> | 24x32 | 50-1000  | 36-737  | 1-360° | 1730   | 38     | 13 | 1 |
| <b>59132</b> | 27x36 | 100-2000 | 74-1475 |        | 1740   |        | 14 |   |



12M

| COD.         | Precisión CW (a derechas) / Accuracy CW (clockwise) / Précision CW (sens horaire) | Precisión CCW (a izquierdas) / Accuracy CCW (counter clockwise) / Précision CCW (sens anti-horaire) | Resolución / Resolution / Résolution | Memoria de datos / Data memory / Memoire de données | Comunicación de datos al ordenador / Data communication to the computer / Transmission de données à l'ordinateur |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>59131</b> | ±2,5%                                                                             | ±3,5%                                                                                               | 1 N.m / 1 Lb.ft / 1°                 | 2000                                                | RF WIRELESS                                                                                                      |
| <b>59132</b> |                                                                                   |                                                                                                     |                                      |                                                     |                                                                                                                  |

### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                                                                        |                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certificado de calibración / Calibration certificate / Certificat de calibrage                                                                                                         | ●                                                                                                                                                                                          |
| Sistema de aviso / Warning system / Système d'alerte                                                                                                                                   | Alarma luminosa y sonora / Audible and light alarm / Alarme lumineuse et sonore                                                                                                            |
| Unidades de medida / Unit selection / Unités de mesure                                                                                                                                 | N.m / Lb.Ft / °                                                                                                                                                                            |
| Calibración vía web / Web calibration / Calibrage par l'intermédiaire de web                                                                                                           | ●                                                                                                                                                                                          |
| Baterías / Batteries / Piles                                                                                                                                                           | AA x 2                                                                                                                                                                                     |
| Duración de la batería / Battery operation time / Durée de fonction de batterie                                                                                                        | 110 h                                                                                                                                                                                      |
| Duración de la batería (standby) / Battery life (standby) / Durée de fonction de batterie (standby)                                                                                    | 1 año                                                                                                                                                                                      |
| Temperatura de trabajo / Working temperature / Température de travail                                                                                                                  | -10 °C ~ 60 °C                                                                                                                                                                             |
| Temperatura de almacenamiento / Storage temperature / Température de stockage                                                                                                          | -20 °C ~ 70 °C                                                                                                                                                                             |
| Distancia máxima de comunicación entre el receptor y la llave / Maximum distance between the receiver and the wrench / Distance maximale de communication entre le récepteur et la clé | 100 m (Se podrá ver reducida dependiendo el entorno) / 100 m (This distance could be reduced depending on the environment) / 100 m (Elle peut être réduite en fonction de l'environnement) |
| Banda de frecuencia / Frequency band / Bande de fréquence                                                                                                                              | ISM 433 MHz                                                                                                                                                                                |
| Dimensiones unión / Joint Dimensions / Dimension de l'union                                                                                                                            |                                                                                                                                                                                            |
|                                                                                                                                                                                        | <b>59131</b> 24 x 32 mm                                                                                                                                                                    |
|                                                                                                                                                                                        | <b>59132</b> 27 x 36 mm                                                                                                                                                                    |

# BE SAFE...BE EFFICIENT

• Posibilidad de suministrar con certificado de calibración externa ENAC / ENAC calibration certificate can be issued on demand / Possibilité de fournir avec le certificat d'étalonnage externe ENAC

**12M** GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

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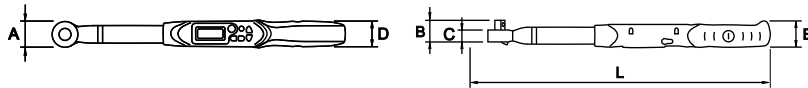
**EGAMASTER**  
 ART IN INNOVATION

505

# EGATORAK

**LLAVE DINAMOMÉTRICA DE CABEZAS INTERCAMBIABLES CON CABEZA DE CARRACA / INTERCHANGEABLE HEAD TORQUE WRENCHES WITH RATCHET HEADS / CLÉ DYNAMOMÉTRIQUE À TÊTES INTERCHANGEABLES AVEC TÊTE À CLIQUET / WECHSELKOPF-DREHMOMENTSCHLÜSSEL MIT RATSCHENKÖPFEN / CHIAVE DINAMOMETRICA A TESTE INTERCAMBIABILI CON TESTA A INNESTO CRICCHETTO / CHAVE DINAMOMÉTRICA DE CABEÇAS INTERCAMBIÁVEIS COM CABEÇA DE ROQUETE / ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ ПОД СМЕННЫЕ НАСАДКИ С ГОЛОВКОЙ ТРЕЩОТКИ**

## STANDARD



| COD.  | AF inch | N.m     | Lb.ft  | Lb.in    | Kg.cm    | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | ✓      | Kg  | ☐ |
|-------|---------|---------|--------|----------|----------|--------|--------|--------|--------|--------|--------|--------|-----|---|
| 58767 | 1/4"    | 1,5-30  | 1-22   | 13-265   | 15-306   | 390    | 25     | 25     | 16     |        |        |        | 1,5 |   |
| 58768 | 3/8"    | 6,8-135 | 5-100  | 60-1195  | 69-1378  | 405    | 37     | 34     | 22     | 39     | 44     | 1-360° | 1,7 | 1 |
| 58769 | 1/2"    | 17-340  | 12-251 | 150-3009 | 173-3469 | 620    | 43     | 44     | 28     | 44     |        |        |     |   |
| 59133 |         | 25-500  | 18-369 | 221-4424 | 255-5102 | 910    |        |        |        |        |        |        |     |   |



12M

| COD.  | Precisión CW (a derechas) / Accuracy CW (clockwise) / Précision CW (sens horaire) | Precisión CCW (a izquierdas) / Accuracy CCW (counter clockwise) / Précision CCW (sens anti-horaire) | Resolución / Resolution / Résolution               | Memoria de datos / Data memory / Memoire de données | Comunicación de datos al ordenador / Data communication to the computer / Transmission de données à l'ordinateur |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| 58767 | ±2%                                                                               | ±3%                                                                                                 | 0,01 N.m / 0,01 Lb.ft / 0,1 Lb.in / 0,1 Kg.cm / 1° | 2000                                                | RF WIRELESS                                                                                                      |
| 58768 |                                                                                   |                                                                                                     |                                                    |                                                     |                                                                                                                  |
| 58769 |                                                                                   |                                                                                                     |                                                    |                                                     |                                                                                                                  |
| 59133 | ±2,5%                                                                             | ±3,5%                                                                                               | 0,1 N.m / 0,1 Lb.ft / 1 Lb.in / 1 Kg.cm / 1°       |                                                     |                                                                                                                  |

## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                                                                        |                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certificado de calibración / Calibration certificate / Certificat de calibrage                                                                                                         | ●                                                                                                                                                                                          |
| Sistema de aviso / Warning system / Système d'alerte                                                                                                                                   | Alarma luminosa y sonora / Audible and light alarm / Alarme lumineuse et sonore                                                                                                            |
| Unidades de medida / Unit selection / Unités de mesure                                                                                                                                 | N.m / Lb.Ft / Lb.in / Kg.cm / °                                                                                                                                                            |
| Calibración vía web / Web calibration / Calibrage par l'intermédiaire de web                                                                                                           | ●                                                                                                                                                                                          |
| Baterías / Batteries / Piles                                                                                                                                                           | AA x 2                                                                                                                                                                                     |
| Duración de la batería / Battery operation time / Durée de fonction de batterie                                                                                                        | 110 h                                                                                                                                                                                      |
| Duración de la batería (standby) / Battery life (standby) / Durée de fonction de batterie (standby)                                                                                    | 1 año                                                                                                                                                                                      |
| Temperatura de trabajo / Working temperature / Température de travail                                                                                                                  | -10 °C ~ 60 °C                                                                                                                                                                             |
| Temperatura de almacenamiento / Storage temperature / Température de stockage                                                                                                          | -20 °C ~ 70 °C                                                                                                                                                                             |
| Distancia máxima de comunicación entre el receptor y la llave / Maximum distance between the receiver and the wrench / Distance maximale de communication entre le récepteur et la clé | 100 m (Se podrá ver reducida dependiendo el entorno) / 100 m (This distance could be reduced depending on the environment) / 100 m (Elle peut être réduite en fonction de l'environnement) |
| Banda de frecuencia / Frequency band / Bande de fréquence                                                                                                                              | ISM 433 MHz                                                                                                                                                                                |
| Dimensiones unión / Joint Dimensions / Dimension de l'union                                                                                                                            |                                                                                                                                                                                            |
|                                                                                                                                                                                        | 58767 9 x 12 mm                                                                                                                                                                            |
|                                                                                                                                                                                        | 58768 9 x 12 mm                                                                                                                                                                            |
|                                                                                                                                                                                        | 58769 14 x 18 mm                                                                                                                                                                           |
|                                                                                                                                                                                        | 59133 14 x 18 mm                                                                                                                                                                           |

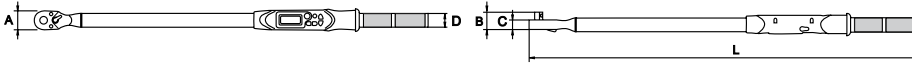
# 10

**APRIETE CONTROLADO**  
**CONTROLLED TIGHTENING**  
**SERRAGE CONTRÔLÉ**  
**KONTROLLIERTES ANZIEHEN**  
**CONTROLLO DI SERRAGGIO**  
**APERTO CONTROLADO**  
**КОНТРОЛИРУЕМАЯ ЗАТЯЖКА**



## EGATORK

### ■ SERIE LARGA / LONG SERIE / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ДЛИННЫЙ



| COD.  | AF<br>inch<br>mm | mm      | N.m      | Lb.ft   | ✓<br>1-360° | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | Kg | B |
|-------|------------------|---------|----------|---------|-------------|--------|--------|--------|--------|--------|----|---|
|       |                  |         |          |         |             |        |        |        |        |        |    |   |
| 59135 |                  | 27 x 36 | 100-2000 | 74-1475 | 1850        | 70     | 75     | 50     |        | 16     |    |   |



12M

| COD.  | Precisión CW (a derechas) / Accuracy CW (clockwise) / Précision CW (sens horaire) | Precisión CCW (a izquierdas) / Accuracy CCW (counter clockwise) / Précision CCW (sens anti-horaire) | Resolución / Resolution / Résolution | Memoria de datos / Data memory / Memoire de données | Comunicación de datos al ordenador / Data communication to the computer / Transmission de données à l'ordinateur |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| 59134 | ±2,5%                                                                             | ±3,5%                                                                                               | 1 N.m / 1 Lb.ft / 1°                 | 2000                                                | RF WIRELESS                                                                                                      |
| 59135 |                                                                                   |                                                                                                     |                                      |                                                     |                                                                                                                  |

### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                                                                        |                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certificado de calibración / Calibration certificate / Certificat de calibrage                                                                                                         | ●                                                                                                                                                                                          |
| Sistema de aviso / Warning system / Système d'alerte                                                                                                                                   | Alarma luminosa y sonora / Audible and light alarm / Alarme lumineuse et sonore                                                                                                            |
| Unidades de medida / Unit selection / Unités de mesure                                                                                                                                 | N.m / Lb.Ft / °                                                                                                                                                                            |
| Calibración vía web / Web calibration / Calibrage par l'intermédiaire de web                                                                                                           | ●                                                                                                                                                                                          |
| Baterías / Batteries / Piles                                                                                                                                                           | AA x 2                                                                                                                                                                                     |
| Duración de la batería / Battery operation time / Durée de fonction de batterie                                                                                                        | 110 h                                                                                                                                                                                      |
| Duración de la batería (standby) / Battery life (standby) / Durée de fonction de batterie (standby)                                                                                    | 1 año                                                                                                                                                                                      |
| Temperatura de trabajo / Working temperature / Température de travail                                                                                                                  | -10 °C ~ 60 °C                                                                                                                                                                             |
| Temperatura de almacenamiento / Storage temperature / Température de stockage                                                                                                          | -20 °C ~ 70 °C                                                                                                                                                                             |
| Distancia máxima de comunicación entre el receptor y la llave / Maximum distance between the receiver and the wrench / Distance maximale de communication entre le récepteur et la clé | 100 m (Se podrá ver reducida dependiendo el entorno) / 100 m (This distance could be reduced depending on the environment) / 100 m (Elle peut être réduite en fonction de l'environnement) |
| Banda de frecuencia / Frequency band / Bande de fréquence                                                                                                                              | ISM 433 MHz                                                                                                                                                                                |
| Dimensiones unión / Joint Dimensions / Dimension de l'union                                                                                                                            | 59134 24 x 32 mm<br>59135 27 x 36 mm                                                                                                                                                       |

### ■ RECEPTOR / RECEIVER / RÉCEPTEUR / EMPFÄNGER / RICEVITORE / RECEPTOR / ПРИЕМНИК

| COD.  | Válido para / Valid for / Valable pour                                                                         | Kg  | B |
|-------|----------------------------------------------------------------------------------------------------------------|-----|---|
| 58770 | 59136, 59138, 58764, 58765, 58766, 59130, 59131, 59132, 59137, 59139, 58767, 58768, 58769, 59133, 59134, 59135 | 1,4 | 1 |

12M

### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                                            |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Cd con los programas para la comunicación de datos / Cd with the programs for data communication / Cd avec les programmes pour la communication de données | ●          |
| Banda de frecuencia / Frequency band / Bande de fréquence                                                                                                  | ISM 433MHz |

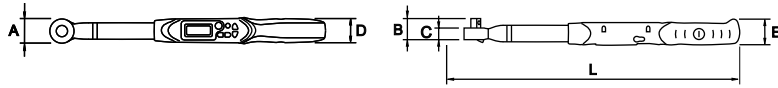


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## EGATORK

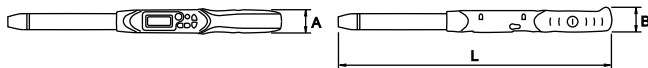
**LLAVE DINAMOMÉTRICA CON MEDICIÓN DE ANGULO Y PAR / TORQUE AND ANGLE WRENCHES / CLÉ DYNAMOMÉTRIQUE AVEC MESURE D'ANGLE ET DE COUPLE / DREHMOMENT- UND WINKELSCHLÜSSEL / CHIAVE DINAMOMETRICA CON MISURA DELL'ANGOLO E COPPIA / CHAVE DINAMOMÉTRICA COM MEDIÇÃO DE ÂNGULO E PAR / ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ С ИЗМЕРИТЕЛЕМ УГЛА И МОМЕНТА ЗАТЯЖКИ**



| COD.         | AF<br>Inch | N.m     | Lb.ft  | Lb.in    | Kg.cm    | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | ✓      | Kg  | 📦 |
|--------------|------------|---------|--------|----------|----------|--------|--------|--------|--------|--------|--------|--------|-----|---|
| <b>58775</b> | 1/4"       | 1,5-30  | 1-22   | 13-265   | 15-306   | 390    | 25     | 25     | 16     |        |        |        | 0,8 |   |
| <b>58776</b> | 3/8"       | 6,8-135 | 5-100  | 60-1195  | 69-1378  | 410    | 36     | 34     | 23     | 39     | 44     | 1-360° | 1,0 | 1 |
| <b>58777</b> | 38         |         |        |          |          |        |        |        |        |        |        |        |     |   |
| <b>58778</b> | 1/2"       | 10-200  | 7-148  | 88-1770  | 102-2041 | 510    | 43     | 44     | 28     |        |        |        | 1,4 |   |
| <b>58779</b> |            | 17-340  | 12-251 | 150-3009 | 173-3469 | 630    |        |        |        |        |        |        |     |   |



12M



| COD.         | mm      | N.m     | Lb.ft  | Lb.in    | Kg.cm    | L (mm) | A (mm) | B (mm) | ✓      | Kg  | 📦 |
|--------------|---------|---------|--------|----------|----------|--------|--------|--------|--------|-----|---|
| <b>59014</b> | 9 x 12  | 1,5-30  | 1-22   | 13-265   | 15-306   | 360    |        |        |        | 0,8 |   |
| <b>59015</b> |         | 6,8-135 | 5-100  | 60-1195  | 69-1378  | 370    | 39     | 44     | 1-360° | 1,0 | 1 |
| <b>59016</b> | 14 x 18 | 10-200  | 7-148  | 88-1770  | 102-2041 | 470    |        |        |        |     |   |
| <b>59017</b> |         | 17-340  | 12-251 | 150-3009 | 173-3469 | 590    | 1,5    |        |        |     |   |



12M

| COD.         | Precisión CW (a derechas) / Accuracy CW (clockwise) / Précision CW (sens horaire) | Precisión CCW (a izquierdas) / Accuracy CCW (counter clockwise) / Précision CCW (sens anti-horaire) | Resolución / Resolution / Résolution          | Memoria de datos / Data memory / Memoire de données | Comunicación de datos al ordenador / Data communication to the computer / Transmission de données à l'ordinateur | Cable para la comunicación de datos / Cable for data communication / Transmission de données |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>58775</b> |                                                                                   |                                                                                                     |                                               |                                                     |                                                                                                                  |                                                                                              |
| <b>58776</b> |                                                                                   |                                                                                                     |                                               |                                                     |                                                                                                                  |                                                                                              |
| <b>58777</b> |                                                                                   |                                                                                                     |                                               |                                                     |                                                                                                                  |                                                                                              |
| <b>58778</b> |                                                                                   |                                                                                                     |                                               |                                                     |                                                                                                                  |                                                                                              |
| <b>58779</b> | ±2%                                                                               | ±3%                                                                                                 | 0,01 N.m / 0,01 Lb.ft / 0,1 Lb.in / 0,1 Kg.cm | 250                                                 | •                                                                                                                | •                                                                                            |
| <b>59014</b> |                                                                                   |                                                                                                     |                                               |                                                     |                                                                                                                  |                                                                                              |
| <b>59015</b> |                                                                                   |                                                                                                     |                                               |                                                     |                                                                                                                  |                                                                                              |
| <b>59016</b> |                                                                                   |                                                                                                     |                                               |                                                     |                                                                                                                  |                                                                                              |
| <b>59017</b> |                                                                                   |                                                                                                     |                                               |                                                     |                                                                                                                  |                                                                                              |



10

**APRIETE CONTROLADO**  
**CONTROLLED TIGHTENING**  
**SERRAGE CONTROLÉ**  
**KONTROLLIERTES ANZIEHEN**  
**CONTROLLO DI SERRAGGIO**  
**APERTO CONTROLADO**  
**КОНТРОЛИРУЕМАЯ ЗАТЯЖКА**




# EGATORK

## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                                            |                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Certificado de calibración / Calibration certificate / Certificat de calibrage                                                                             | ●                                                                               |
| Pares prefijados / Preset Torque values / Paires Préétablies                                                                                               | 9                                                                               |
| Sistema de aviso / Warning system / Système d'alerte                                                                                                       | Alarma luminosa y sonora / Audible and light alarm / Alarme lumineuse et sonore |
| Unidades de medida / Unit selection / Unités de mesure                                                                                                     | N.m / Lb.ft / Lb.in / Kg.cm                                                     |
| Dimensiones unión / Joint Dimensions / Dimension de l'union                                                                                                |                                                                                 |
|                                                                                                                                                            | 58775 9 x 12 mm                                                                 |
|                                                                                                                                                            | 58776 9 x 12 mm                                                                 |
|                                                                                                                                                            | 58777 9 x 12 mm                                                                 |
|                                                                                                                                                            | 59014 9 x 12 mm                                                                 |
|                                                                                                                                                            | 59015 9 x 12 mm                                                                 |
|                                                                                                                                                            | 58778 14 x 18 mm                                                                |
|                                                                                                                                                            | 58779 14 x 18 mm                                                                |
|                                                                                                                                                            | 59016 14 x 18 mm                                                                |
|                                                                                                                                                            | 59017 14 x 18 mm                                                                |
| Modo de operación / Operation mode / Mode d'opération                                                                                                      | Peak/Track*                                                                     |
| Cd con los programas para la comunicación de datos / Cd with the programs for data communication / Cd avec les programmes pour la communication de données | ●                                                                               |
| Baterías / Batteries / Piles                                                                                                                               | AA x 2                                                                          |
| Calibración vía web / Web calibration / Calibrage par l'intermédiaire de web                                                                               | ●                                                                               |
| Duración de la batería / Battery operation time / Durée de fonction de batterie                                                                            | 110 h                                                                           |
| Duración de la batería (standby) / Battery life (standby) / Durée de fonction de batterie (standby)                                                        | 1 año / 1 year / 1 année                                                        |
| Temperatura de trabajo / Working temperature / Température de travail                                                                                      | -10 °C ~ 60 °C                                                                  |
| Temperatura de almacenamiento / Storage temperature / Température de stockage                                                                              | -20 °C ~ 70 °C                                                                  |

\* : Modo Track: Valor de torsión actual - Modo Peak: Valor máximo de torsión / Track mode: Direct torque value - Peak mode: Max. torque Value / Mode Track: Valeur de torsion actuelle - Mode Peak: Valeur maximum de torsion

## ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACCESSORIOS / ЗАПАСНЫЕ ЧАСТИ

| COD.  | Descripción / Description / Description |  (m) |
|-------|-----------------------------------------|-----------------------------------------------------------------------------------------|
| 57573 | Cable USB / USB cable / Câble USB       | 1,2                                                                                     |



# BE SAFE...BE EFFICIENT

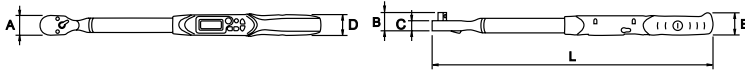
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**EGAMaster**  
 ART IN INNOVATION

# EGATORAK

## LLAVE DINAMOMÉTRICA DIGITAL / DIGITAL TORQUE WRENCH / CLÉ DYNAMOMÉTRIQUE DIGITALE / DIGITALER DREHMOMENTSCHLÜSSEL / CHIAVE DINAMOMETRICA DIGITALE / CHAVE DINAMOMÉTRICA DIGITAL / ЦИФРОВОЙ ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ



| COD.  | AF<br>inch | N.m     | Lb.ft  | Lb.in    | Kg.cm    | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | Kg  |   |
|-------|------------|---------|--------|----------|----------|--------|--------|--------|--------|--------|--------|-----|---|
| 62955 | 1/4        | 1,5-30  | 1-22   | 13-265   | 15-306   | 390    | 23     | 19     | 11     |        |        | 1,4 |   |
| 62956 | 3/8        | 6,8-135 | 5-100  | 60-1195  | 69-1378  | 415    | 30     | 27     | 15     |        |        | 1,5 |   |
| 62957 | 1/2        | 10-200  | 7-148  | 88-1770  | 102-2041 | 530    | 41     | 35     | 19     | 39     | 44     | 2,1 | 1 |
| 62958 |            | 17-340  | 12-251 | 150-3009 | 173-3469 | 650    |        |        |        |        |        | 2,3 |   |
| 62959 | 1/4        | 1,5-30  | 1-22   | 13-265   | 15-306   | 390    | 23     | 19     | 11     |        |        | 1,7 |   |
| 62960 | 3/8        | 6,8-135 | 5-100  | 60-1195  | 69-1378  | 415    | 30     | 27     | 15     |        |        | 1,9 |   |
| 62961 | 1/2        | 10-200  | 7-148  | 88-1770  | 102-2041 | 530    | 41     | 35     | 19     |        |        | 2,5 |   |
| 62962 |            | 17-340  | 12-251 | 150-3009 | 173-3469 | 650    |        |        |        |        |        | 2,7 |   |



12M

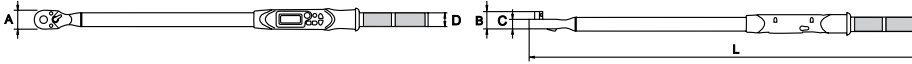
| COD.  | Precisión CW (a derechas) / Accuracy CW (clockwise) / Précision CW (sens horaire) | Precisión CCW (a izquierdas) / Accuracy CCW (counter clockwise) / Précision CCW (sens anti-horaire) | Resolución / Resolution / Résolution          | Memoria de datos / Data memory / Memoire de données | Comunicación de datos al ordenador / Data communication to the computer / Transmission de données à l'ordinateur | Cable para la comunicación de datos / Cable for data communication / Transmission de données |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 62955 |                                                                                   |                                                                                                     | 0,01 N.m / 0,01 Lb.ft / 0,1 Lb.in / 0,1 Kg.cm |                                                     |                                                                                                                  |                                                                                              |
| 62956 | ±2%                                                                               |                                                                                                     |                                               | 50                                                  | -                                                                                                                | -                                                                                            |
| 62957 |                                                                                   | ±3%                                                                                                 | 0,1 N.m / 0,1 Lb.ft / 1 Lb.in / 1 Kg.cm       |                                                     |                                                                                                                  |                                                                                              |
| 62958 |                                                                                   |                                                                                                     |                                               |                                                     |                                                                                                                  |                                                                                              |
| 62959 |                                                                                   |                                                                                                     | 0,01 N.m / 0,01 Lb.ft / 0,1 Lb.in / 0,1 Kg.cm |                                                     |                                                                                                                  |                                                                                              |
| 62960 | ±1%                                                                               |                                                                                                     |                                               | 250                                                 | ●                                                                                                                | ●                                                                                            |
| 62961 |                                                                                   | ±2%                                                                                                 | 0,1 N.m / 0,1 Lb.ft / 1 Lb.in / 1 Kg.cm       |                                                     |                                                                                                                  |                                                                                              |
| 62962 |                                                                                   |                                                                                                     |                                               |                                                     |                                                                                                                  |                                                                                              |

### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                                            |                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Certificado de calibración / Calibration certificate / Certificat de calibrage                                                                             | ●                                                                               |
| Reversible / Reversible / Réversible                                                                                                                       | ●                                                                               |
| Dientes / Teeth / Dents                                                                                                                                    | 36                                                                              |
| Pares prefijados / Preset Torque values / Paires Préétablies                                                                                               | 9                                                                               |
| Sistema de aviso / Warning system / Système d'alerte                                                                                                       | Alarma luminosa y sonora / Audible and light alarm / Alarme lumineuse et sonore |
| Modo de operación / Operation mode / Mode d'opération                                                                                                      | Peak/Track*                                                                     |
| Unidades de medida / Unit selection / Unités de mesure                                                                                                     | N.m / Lb.ft / Lb.in / Kg.cm                                                     |
| Cd con los programas para la comunicación de datos / Cd with the programs for data communication / Cd avec les programmes pour la communication de données | ●                                                                               |
| Calibración vía web / Web calibration / Calibrage par l'intermédiaire de web                                                                               | ●                                                                               |
| Baterías / Batteries / Piles                                                                                                                               | AA x 2                                                                          |
| Duración de la batería / Battery operation time / Durée de fonction de batterie                                                                            | 110 h                                                                           |
| Duración de la batería (standby) / Battery life (standby) / Durée de fonction de batterie (standby)                                                        | 1 año / 1 year / 1 année                                                        |
| Temperatura de trabajo / Working temperature / Température de travail                                                                                      | -10 °C ~ 60 °C                                                                  |
| Temperatura de almacenamiento / Storage temperature / Température de stockage                                                                              | -20 °C ~ 70 °C                                                                  |

\* : Modo Track: Valor de torsión actual - Modo Peak: Valor máximo de torsión / Track mode: Direct torque value - Peak mode: Max. torque Value / Mode Track: Valeur de torsion actuelle - Mode Peak: Valeur maximum de torsion

# EGATORK



| COD.  | AF<br>inch | N.m      | Lb.ft    | Lb.in    | Kg.cm    | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | Kg  |   |
|-------|------------|----------|----------|----------|----------|--------|--------|--------|--------|--------|-----|---|
| 67685 | 3/4        | 25-500   | 18-369   | 221-4424 | 255-5102 | 950    | 60     | 55     | 30     |        | 5,6 | 1 |
| 67686 |            | 42,5-850 | 31-627   | 376-7521 | 434-8674 | 1220   |        |        |        |        | 6,2 |   |
| 67688 | 1          | 75-1500  | 221-1106 | -        | -        | 1800   | 70     | 65     | 35     |        | 9,2 |   |
| 67721 | 3/4        | 25-500   | 18-369   | 221-4424 | 255-5102 | 950    | 60     | 55     | 30     | 38     | 5,6 |   |
| 67722 |            | 42,5-850 | 31-627   | 376-7521 | 434-8674 | 1220   |        |        |        |        | 6,2 |   |
| 67724 | 1          | 75-1500  | 221-1106 | -        | -        | 1800   | 70     | 65     | 35     |        | 9,5 |   |



12M


| COD.  | Precisión CW (a derechas) /<br>Accuracy CW (clockwise) / Précision<br>CW (sens horaire) | Precisión CCW (a izquierdas) /<br>Accuracy CCW (counter clockwise) /<br>Précision CCW (sens anti-horaire) | Resolución / Resolution /<br>Résolution    | Memoria de datos / Data<br>memory / Memoire de données | Comunicación de datos al<br>ordenador / Data communication<br>to the computer / Transmission de<br>données à l'ordinateur | Cable para la comunicación<br>de datos / Cable for data<br>communication / Transmission<br>de données |
|-------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 67685 |                                                                                         |                                                                                                           | 0,1 N.m / 0,1 Lb.ft / 1 Lb.in /<br>1 Kg.cm | 50                                                     | -                                                                                                                         | -                                                                                                     |
| 67686 |                                                                                         |                                                                                                           | 0,1 N.m / 0,1 Lb.ft                        |                                                        |                                                                                                                           |                                                                                                       |
| 67688 | ±2,5%                                                                                   | ±3,5%                                                                                                     | 0,1 N.m / 0,1 Lb.ft / 1 Lb.in /<br>1 Kg.cm | 250                                                    | ●                                                                                                                         | ●                                                                                                     |
| 67721 |                                                                                         |                                                                                                           | 0,1 N.m / 0,1 Lb.ft / 1 Lb.in /<br>1 Kg.cm |                                                        |                                                                                                                           |                                                                                                       |
| 67722 |                                                                                         |                                                                                                           | 0,1 N.m / 0,1 Lb.ft                        |                                                        |                                                                                                                           |                                                                                                       |
| 67724 |                                                                                         |                                                                                                           | 0,1 N.m / 0,1 Lb.ft                        |                                                        |                                                                                                                           |                                                                                                       |

## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                                            |                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certificado de calibración / Calibration certificate / Certificat de calibrage                                                                             | ●                                                                                                                                                                                          |
| Reversible / Reversible / Réversible                                                                                                                       | ●                                                                                                                                                                                          |
| Dientes / Teeth / Dents                                                                                                                                    | 48                                                                                                                                                                                         |
| Pares prefijados / Preset Torque values / Paires Préétablies                                                                                               | 9                                                                                                                                                                                          |
| Sistema de aviso / Warning system / Système d'alerte                                                                                                       | Alarma luminosa y sonora / Audible and light alarm / Alarme lumineuse et sonore                                                                                                            |
| Modo de operación / Operation mode / Mode d'opération                                                                                                      | Peak/Track*                                                                                                                                                                                |
| Unidades de medida / Unit selection / Unités de mesure                                                                                                     | 67685 N.m / Lb.ft / Lb.in / Kg.cm<br>67686 N.m / Lb.ft / Lb.in / Kg.cm<br>67721 N.m / Lb.ft / Lb.in / Kg.cm<br>67722 N.m / Lb.ft / Lb.in / Kg.cm<br>67688 N.m / Lb.ft<br>67724 N.m / Lb.ft |
| Cd con los programas para la comunicación de datos / Cd with the programs for data communication / Cd avec les programmes pour la communication de données | ●                                                                                                                                                                                          |
| Calibración vía web / Web calibration / Calibrage par l'intermédiaire de web                                                                               | ●                                                                                                                                                                                          |
| Baterías / Batteries / Piles                                                                                                                               | AA x 2                                                                                                                                                                                     |
| Duración de la batería / Battery operation time / Durée de fonction de batterie                                                                            | 110 h                                                                                                                                                                                      |
| Duración de la batería (standby) / Battery life (standby) / Durée de fonction de batterie (standby)                                                        | 1 año / 1 year / 1 année                                                                                                                                                                   |
| Temperatura de trabajo / Working temperature / Température de travail                                                                                      | -10 °C ~ 60 °C                                                                                                                                                                             |
| Temperatura de almacenamiento / Storage temperature / Température de stockage                                                                              | -20 °C ~ 70 °C                                                                                                                                                                             |

\* : Modo Track: Valor de torsión actual - Modo Peak: Valor máximo de torsión / Track mode: Direct torque value - Peak mode: Max. torque Value / Mode Track: Valeur de torsion actuelle - Mode Peak: Valeur maximum de torsion

## ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACCESSORIOS / ЗАПАСНЫЕ ЧАСТИ

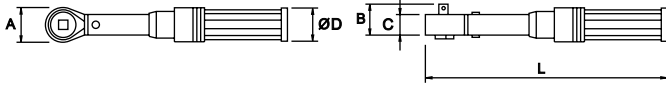
| COD.  | Descripción / Description / Description |  (m) |
|-------|-----------------------------------------|-----------------------------------------------------------------------------------------|
| 57573 | Cable USB / USB cable / Câble USB       | 1,2                                                                                     |



• Posibilidad de suministrar con certificado de calibración externa ENAC / ENAC calibration certificate can be issued on demand / Possibilité de fournir avec le certificat d'étalonnage externe ENAC  
**12M** GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

# EGATORK

**LLAVE DINAMOMÉTRICA MINI REVERSIBLE ANALÓGICA / ANALOGIC REVERSIBLE MINI TORQUE WRENCH / CLÉ DYNAMOMÉTRIQUE ANALOGIQUE MINI RÉVERSIBLE / ANALOGUE UMKEHRBARE MINI DREHMOMENTSCHLÜSSEL / CHIAVE MINI DINAMOMETRICA ANALOGICA REVERSIBILE / CHAVE DINAMOMÉTRICA MINI REVERSÍVEL ANALÓGICA / РЕВЕРСИВНЫЙ АНАЛОГОВЫЙ МИНИ-ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ**



| COD.         | AF<br>inch | N.m | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | Kg   |
|--------------|------------|-----|--------|--------|--------|--------|--------|------|
| <b>62982</b> | 1/4        | 1-5 | 185    | 28     | 25     | 15     | 26     | 0,35 |

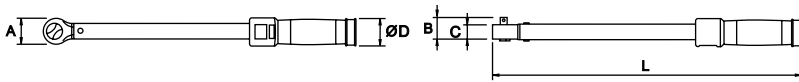
12M



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                |    |
|--------------------------------------------------------------------------------|----|
| Precisión / Accuracy / Précision                                               | 4% |
| Certificado de calibración / Calibration certificate / Certificat de calibrage | ●  |
| Reversible / Reversible / Réversible                                           | ●  |
| Dientes / Teeth / Dents                                                        | 45 |
| Estuche individual / Individual case / Étui individuel                         | ●  |

**LLAVE DINAMOMÉTRICA REVERSIBLE ANALÓGICA / ANALOGIC REVERSIBLE TORQUE WRENCH / CLÉ DYNAMOMÉTRIQUE ANALOGIQUE RÉVERSIBLE / ANALOGUE UMKEHRBARE DREHMOMENTSCHLÜSSEL / CHIAVE DINAMOMETRICA ANALOGICA REVERSIBILE / CHAVE DINAMOMÉTRICA REVERSÍVEL ANALÓGICA / РЕВЕРСИВНЫЙ АНАЛОГОВЫЙ ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ**



| COD.         | AF<br>inch | N.m      | Lb.ft    | Lb.in     | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | Kg  | Icon |
|--------------|------------|----------|----------|-----------|--------|--------|--------|--------|--------|-----|------|
| <b>62951</b> |            | 2.5-12   |          | 20-105    | 290    |        |        |        |        |     |      |
| <b>62952</b> | 1/4        | 4-20     |          | 30-180    | 28     | 30     | 19     |        |        | 0,8 |      |
| <b>65871</b> |            | -        | -        | 35-180    | 230    |        |        |        |        |     |      |
| <b>62965</b> |            | 6-30     |          | 50-250    | 320    | 37     | 40     |        |        | 0,9 |      |
| <b>65872</b> | 3/8        | -        |          | 120-450   | 380    | 40     | 44     |        |        |     |      |
| <b>62953</b> |            | 25-125   | 20-90    | -         |        |        | 40     |        |        | 1,3 |      |
| <b>57686</b> |            | 10-70    | -        | 100-600   | 440    | 38     | 41     |        |        | 0,9 |      |
| <b>62954</b> |            | 25-125   | 20-90    | -         |        |        |        | 25     |        | 1,3 |      |
| <b>65873</b> |            | -        | -        | 350-1800  | 520    |        |        |        | 25     |     |      |
| <b>62963</b> | 1/2        | 40-200   | 30-150   | -         | 460    |        | 44     |        | 38     | 1,4 | 1    |
| <b>62968</b> |            | 65-335   | 50-250   | -         | 520    | 40     |        |        |        | 1,5 |      |
| <b>65918</b> |            | -        | -        | 1000-3000 | 520    |        |        |        |        |     |      |
| <b>62983</b> |            | 80-400   | 60-300   | -         | 750    |        |        |        |        | 1,9 |      |
| <b>62969</b> | 3/4        | 160-800  | 120-600  | -         | 1040   | 60     | 66     | 39     |        | 8,5 |      |
| <b>62976</b> |            | 200-1000 | 150-750  | -         |        |        |        |        |        |     |      |
| <b>62977</b> |            | 300-1500 | 200-1100 | -         |        |        |        |        |        |     |      |
| <b>62978</b> | 1          | 400-2000 | 300-1500 | -         | 1250   | 72     | 82     | 40     |        | 12  |      |
| <b>62979</b> |            | 600-3000 | 400-2200 | -         |        |        |        |        |        | 13  |      |

12M | Kit de reparación disponible / Repair kit available / Kit de réparation disponible



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                |    |
|--------------------------------------------------------------------------------|----|
| Precisión / Accuracy / Précision                                               | 3% |
| Certificado de calibración / Calibration certificate / Certificat de calibrage | ●  |
| Reversible / Reversible / Réversible                                           | ●  |
| Dientes / Teeth / Dents                                                        | 45 |
| Estuche individual / Individual case / Étui individuel                         | ●  |

# EGAMASTER

## BARRA DE EXTENSIÓN PARA LLAVE DINAMOMÉTRICA / EXTENSION BAR FOR TORQUE WRENCH / RALLONGE POUR CLÉ DYNAMOMÉTRIQUE / VERLÄNGERUNG F/ DREHMOMENTSCHLÜSSEL / BARRA ESTENSÍVEL PER CHIAVE DINAMOMETRICA / EXTENSÃO PARA CHAVE DINAMOMÉTRICA / УДЛИНИТЕЛЬ ДЛЯ ДИНАМОМЕТРИЧЕСКОГО КЛЮЧА

| COD.  | L (mm) | O.D. mm | Válido para / Valid for / Valable pour | Kg  |  |   |
|-------|--------|---------|----------------------------------------|-----|--|---|
| 56497 | 1100   | 38      | 62977, 62978, 56494, 56495             | 3,4 |  | 1 |
| 56498 |        | 40,5    | 62979, 56496                           | 4,7 |  |   |



## LLAVE DINAMOMÉTRICA DE CABEZAS INTERCAMBIABLES / INTERCHANGEABLE HEAD TORQUE WRENCHES / CLÉ DYNAMOMÉTRIQUE À TÊTES INTERCHANGEABLES / AUSWECHSELBARE KOPFDREHMOMENTSCHLÜSSEL / CHIAVE DINAMOMETRICA CON TESTE INTERCAMBIABILI / CHAVE DINAMOMÉTRICA DE CABEÇAS INTERCAMBIÁVEIS / ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ СО СМЕННЫМИ НАСАДКАМИ

9 x 12

DIGITAL / DIGITAL / DIGITAL / DIGITAAL / DIGITALE / DIGITAL / ЦИФРОВОЙ ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ



| COD.  | mm     | N.m     | Lb.ft | Lb.in   | Kg.cm   | L (mm) | A (mm) | B (mm) | Kg  |   |  |
|-------|--------|---------|-------|---------|---------|--------|--------|--------|-----|---|--|
| 57585 | 9 x 12 | 1,5-30  | 1-22  | 13-265  | 15-306  | 360    | 39     | 44     | 1,4 | 1 |  |
| 57586 |        | 6,8-135 | 5-100 | 60-1195 | 69-1378 | 375    |        |        | 1,6 |   |  |
| 57589 |        | 1,5-30  | 1-22  | 13-265  | 15-306  | 360    |        |        | 1,4 |   |  |
| 57590 |        | 6,8-135 | 5-100 | 60-1195 | 69-1378 | 375    |        |        | 1,6 |   |  |



12M

| COD.  | Precisión CW (a derechas) / Accuracy CW (clockwise) / Précision CW (sens horaire) | Precisión CCW (a izquierdas) / Accuracy CCW (counter clockwise) / Précision CCW (sens anti-horaire) | Resolución / Resolution / Résolution          | Memoria de datos / Data memory / Memoire de données | Comunicación de datos al ordenador / Data communication to the computer / Transmission de données à l'ordinateur | Cable para la comunicación de datos / Cable for data communication / Transmission de données |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 57585 | ±2%                                                                               | ±3%                                                                                                 | 0,01 N.m / 0,01 Lb.ft / 0,1 Lb.in / 0,1 Kg.cm | 50                                                  | -                                                                                                                | -                                                                                            |
| 57586 |                                                                                   |                                                                                                     | 0,1 N.m / 0,1 Lb.ft / 1 Lb.in / 1 Kg.cm       |                                                     |                                                                                                                  |                                                                                              |
| 57589 | ±1%                                                                               | ±2%                                                                                                 | 0,01 N.m / 0,01 Lb.ft / 0,1 Lb.in / 0,1 Kg.cm | 250                                                 | ●                                                                                                                | ●                                                                                            |
| 57590 |                                                                                   |                                                                                                     | 0,1 N.m / 0,1 Lb.ft / 1 Lb.in / 1 Kg.cm       |                                                     |                                                                                                                  |                                                                                              |


# EGATORK

## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                                            |                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Certificado de calibración / Calibration certificate / Certificat de calibrage                                                                             | ●                                                                               |
| Pares prefijados / Preset Torque values / Paires Préétablies                                                                                               | 9                                                                               |
| Sistema de aviso / Warning system / Système d'alerte                                                                                                       | Alarma luminosa y sonora / Audible and light alarm / Alarme lumineuse et sonore |
| Modo de operación / Operation mode / Mode d'opération                                                                                                      | Peak/Track*                                                                     |
| Unidades de medida / Unit selection / Unités de mesure                                                                                                     | N.m / Lb.ft / Lb.in / Kg.cm                                                     |
| Cd con los programas para la comunicación de datos / Cd with the programs for data communication / Cd avec les programmes pour la communication de données |                                                                                 |
|                                                                                                                                                            | 57585 -                                                                         |
|                                                                                                                                                            | 57586 -                                                                         |
|                                                                                                                                                            | 57589 ●                                                                         |
|                                                                                                                                                            | 57590 ●                                                                         |
| Calibración vía web / Web calibration / Calibrage par l'intermédiaire de web                                                                               | ●                                                                               |
| Baterías / Batteries / Piles                                                                                                                               | AA x 2                                                                          |
| Duración de la batería / Battery operation time / Durée de fonction de batterie                                                                            | 110 h                                                                           |
| Duración de la batería (standby) / Battery life (standby) / Durée de fonction de batterie (standby)                                                        | 1 año / 1 year / 1 année                                                        |
| Temperatura de trabajo / Working temperature / Température de travail                                                                                      | -10 °C ~ 60 °C                                                                  |
| Temperatura de almacenamiento / Storage temperature / Température de stockage                                                                              | -20 °C ~ 70 °C                                                                  |
| Dimensiones unión / Joint Dimensions / Dimension de l'union                                                                                                | 9 x 12 mm                                                                       |

\* : Modo Track: Valor de torsión actual - Modo Peak: Valor máximo de torsión / Track mode: Direct torque value - Peak mode: Max. torque Value / Mode Track: Valeur de torsion actuelle - Mode Peak: Valeur maximum de torsion

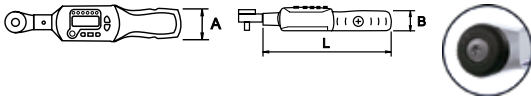
## ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ

| COD.  | Descripción / Description / Description |  L (m) |
|-------|-----------------------------------------|-------------------------------------------------------------------------------------------|
| 57573 | Cable USB / USB cable / Câble USB       | 1,2                                                                                       |



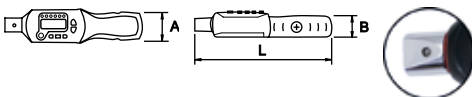
## EGATORK

■ **DIGITAL MINI / DIGITAL MINI / DIGITALE MINI / DIGITALER MINI / DIGITALE MINI / DIGITAL MINI / ЦИФРОВОЙ МИНИ**



| COD.         | AF<br>inch | N.m    | Lb.ft  | Lb.in  | Kg.cm  | L (mm) | A (mm) | B (mm) | Kg  |   |
|--------------|------------|--------|--------|--------|--------|--------|--------|--------|-----|---|
| <b>57541</b> | 1/4        | 1,5-30 | 1-22   | 13-265 | 15-306 | 225    | 39     | 44     | 1,4 | 1 |
| <b>57543</b> | 3/8        | 4,2-85 | 3,1-63 | 37-752 | 43-867 | 270    |        |        | 1,5 |   |

12M



| COD.         | mm   | N.m    | Lb.ft  | Lb.in  | Kg.cm  | L (mm) | A (mm) | B (mm) | Kg  |   |
|--------------|------|--------|--------|--------|--------|--------|--------|--------|-----|---|
| <b>57542</b> | 9x12 | 1,5-30 | 1-22   | 13-265 | 15-306 | 225    | 39     | 44     | 1,2 | 1 |
| <b>57544</b> |      | 4,2-85 | 3,1-63 | 37-752 | 43-867 | 270    |        |        | 1,3 |   |

12M



| COD.         | Precisión CW (a derechas) /<br>Accuracy CW (clockwise) / Précision<br>CW (sens horaire) | Precisión CCW (a izquierdas) /<br>Accuracy CCW (counter clockwise) /<br>Précision CCW (sens anti-horaire) | Resolución / Resolution /<br>Résolution          | Memoria de datos / Data<br>memory / Memoire de données | Comunicación de datos al<br>ordenador / Data communication<br>to the computer / Transmission de<br>données à l'ordinateur | Cable para la comunicación<br>de datos / Cable for data<br>communication / Transmission<br>de données |
|--------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>57541</b> |                                                                                         |                                                                                                           | 0,01 N.m / 0,01 Lb.ft / 0,1 Lb.in<br>/ 0,1 Kg.cm |                                                        |                                                                                                                           |                                                                                                       |
| <b>57543</b> |                                                                                         |                                                                                                           | 0,1 N.m / 0,1 Lb.ft / 1 Lb.in /<br>1 Kg.cm       |                                                        |                                                                                                                           |                                                                                                       |
| <b>57542</b> | ±2                                                                                      | ±3                                                                                                        | 0,01 N.m / 0,01 Lb.ft / 0,1 Lb.in<br>/ 0,1 Kg.cm | 250                                                    | •                                                                                                                         | •                                                                                                     |
| <b>57544</b> |                                                                                         |                                                                                                           | 0,1 N.m / 0,1 Lb.ft / 1 Lb.in /<br>1 Kg.cm       |                                                        |                                                                                                                           |                                                                                                       |

• Posibilidad de suministrar con certificado de calibración externa ENAC / ENAC calibration certificate can be issued on demand / Possibilité de fournir avec le certificat d'étalonnage externe ENAC  
**12M** GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

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# EGATORAK

## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                                                   |                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Certificado de calibración / <i>Calibration certificate</i> / Certificat de calibrage                                                                             | ●                                                                                      |
| Reversible / <i>Reversible</i> / Réversible                                                                                                                       | ●                                                                                      |
| Dientes / <i>Teeth</i> / Dents                                                                                                                                    |                                                                                        |
|                                                                                                                                                                   | 57541 52                                                                               |
|                                                                                                                                                                   | 57543 52                                                                               |
|                                                                                                                                                                   | 57542 -                                                                                |
|                                                                                                                                                                   | 57544 -                                                                                |
| Pares prefijados / <i>Preset Torque values</i> / Paires Préétablies                                                                                               | 9                                                                                      |
| Sistema de aviso / <i>Warning system</i> / Système d'alerte                                                                                                       | Alarma luminosa y sonora / <i>Audible and light alarm</i> / Alarme lumineuse et sonore |
| Modo de operación / <i>Operation mode</i> / Mode d'opération                                                                                                      | Peak/Track*                                                                            |
| Unidades de medida / <i>Unit selection</i> / Unités de mesure                                                                                                     | N.m / Lb.ft / Lb.in / Kg.cm                                                            |
| Cd con los programas para la comunicación de datos / <i>Cd with the programs for data communication</i> / Cd avec les programmes pour la communication de données | ●                                                                                      |
| Calibración vía web / <i>Web calibration</i> / Calibrage par l'intermédiaire de web                                                                               | ●                                                                                      |
| Baterías / <i>Batteries</i> / Piles                                                                                                                               | AAA x 2                                                                                |
| Duración de la batería / <i>Battery operation time</i> / Durée de fonction de batterie                                                                            | 110 h                                                                                  |
| Duración de la batería (standby) / <i>Battery life (standby)</i> / Durée de fonction de batterie (standby)                                                        | 1 año / <i>1 year</i> / 1 année                                                        |
| Temperatura de trabajo / <i>Working temperature</i> / Température de travail                                                                                      | -10 °C ~ 60 °C                                                                         |
| Temperatura de almacenamiento / <i>Storage temperature</i> / Température de stockage                                                                              | -20 °C ~ 70 °C                                                                         |

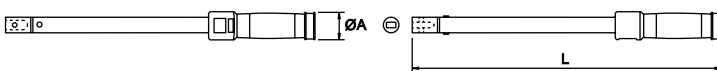
\* : Modo Track: Valor de torsión actual - Modo Peak: Valor máximo de torsión / *Track mode: Direct torque value - Peak mode: Max. torque Value* / Mode Track: Valeur de torsion actuelle - Mode Peak: Valeur maximum de torsion




## ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ

| COD.  | Descripción / <i>Description</i> / Description |  L (m) |
|-------|------------------------------------------------|-------------------------------------------------------------------------------------------|
| 57573 | Cable USB / <i>USB cable</i> / Câble USB       | 1,2                                                                                       |



## ANALÓGICA / ANALOGIC / ANALOGIQUE / ANALOG / ANALOGICO / ANALÓGICA / АНАЛОГОВЫЙ ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ



| COD.  |  mm | N.m    | Lb.ft | Lb.in   | L (mm) | A (mm) |  Kg |  |
|-------|----------------------------------------------------------------------------------------|--------|-------|---------|--------|--------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 56220 | 9 x 12                                                                                 | 2,5-12 | -     | 20-105  | 280    | -      | 0,5                                                                                    | 1                                                                                     |
| 56242 |                                                                                        | 4-20   | -     | 30-180  | -      | -      | -                                                                                      |                                                                                       |
| 56221 |                                                                                        | 6-30   | -     | 50-250  | 300    | 38     | 0,6                                                                                    |                                                                                       |
| 56245 |                                                                                        | 10-70  | -     | 100-600 | 370    | -      | 0,7                                                                                    |                                                                                       |
| 56222 |                                                                                        | 25-125 | 20-90 | -       | 420    | -      | 0,8                                                                                    |                                                                                       |



12M | Kit de reparación disponible / *Repair kit available* / Kit de réparation disponible

## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                                                                                                                           |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Precisión / <i>Accuracy</i> / Précision                                                                                                                                                                                                   | 3%        |
| Certificado de calibración / <i>Calibration certificate</i> / Certificat de calibrage                                                                                                                                                     | ●         |
| Reversible / <i>Reversible</i> / Réversible                                                                                                                                                                                               | ●         |
| Dimensiones unión / <i>Joint Dimensions</i> / Dimension de l'union                                                                                                                                                                        | 9 x 12 mm |
| Sistema de cabezas fijas + carraca + estrella + estrella abierta + ajustable / <i>Ratchet + open head + box head + box open head system + adjustable</i> / Système de têtes cliquet + fixes + polygonale + polygonale ouverte + à molette | ●         |
| Estuche individual / <i>Individual case</i> / Étui individuel                                                                                                                                                                             | ●         |



# EGAMASTER

**CABEZAS INTERCAMBIABLES / INTERCHANGEABLE HEADS / TÊTES INTERCHANGEABLES / AUSWECHSELBARE KÖPFE / TESTE INTERCAMBIABILI / CABEÇAS INTERCAMBIÁVEIS / СМЕННЫЕ НАСАДКИ ДЛЯ ДИНАМОМЕТРИЧЕСКОГО КЛЮЧА**

**CABEZAS FIJAS / OPEN HEADS / TÊTES À FOURCHES / OFFENE KÖPFE / TESTE FISSE / PONTEIRAS DE VOCA / НАСАДКИ РОЖКОВЫЕ**

**MM**

| COD.  | AF mm | mm     |
|-------|-------|--------|
| 56250 | 7     |        |
| 56251 | 8     |        |
| 56252 | 9     |        |
| 56253 | 10    |        |
| 56254 | 11    |        |
| 56255 | 12    |        |
| 56256 | 13    | 9 x 12 |
| 56257 | 14    |        |
| 56258 | 15    |        |
| 56259 | 16    |        |
| 56260 | 17    |        |
| 56261 | 18    |        |
| 56262 | 19    |        |



| COD.  | AF inch | Dientes / Teeth / Dents | mm     |
|-------|---------|-------------------------|--------|
| 56246 | 1/4     |                         |        |
| 56247 | 3/8     | 45                      | 9 x 12 |
| 56248 | 1/2     |                         |        |



| COD.  | AF inch | Dientes / Teeth / Dents | mm     |
|-------|---------|-------------------------|--------|
| 57595 | 1/4     |                         |        |
| 57596 | 3/8     | 52                      | 9 x 12 |
| 57597 | 1/2     |                         |        |



| COD.  | AF inch | Dientes / Teeth / Dents | mm     |
|-------|---------|-------------------------|--------|
| 59084 | 1/4     |                         |        |
| 59085 | 3/8     | 72                      | 9 x 12 |
| 59086 | 1/2     |                         |        |



**INCH**

| COD.  | AF inch | mm     |
|-------|---------|--------|
| 56445 | 1/4     |        |
| 56446 | 5/16    |        |
| 56447 | 3/8     |        |
| 56448 | 7/16    |        |
| 56449 | 1/2     | 9 x 12 |
| 56450 | 9/16    |        |
| 56451 | 5/8     |        |
| 56452 | 11/16   |        |
| 56453 | 3/4     |        |



**CABEZAS ESTRELLA / BOX HEADS / TÊTES POLYGONALES / BOX KÖPFE / TESTE POLIGONALI / PONTEIRAS DE LUNETA / НАСАДКИ НАКИДНЫЕ**

**MM**

| COD.  | AF mm | mm     |
|-------|-------|--------|
| 56264 | 7     |        |
| 56265 | 8     |        |
| 56266 | 9     |        |
| 56267 | 10    |        |
| 56268 | 11    |        |
| 56269 | 12    |        |
| 56270 | 13    |        |
| 56271 | 14    | 9 x 12 |
| 56272 | 15    |        |
| 56273 | 16    |        |
| 56274 | 17    |        |
| 56275 | 18    |        |
| 56276 | 19    |        |
| 56277 | 21    |        |
| 56278 | 22    |        |
| 56294 | 24    |        |



**CABEZAS AJUSTABLES / ADJUSTABLE HEADS / TÊTES À MOLETTE / VERSTELLBARE KÖPFE / TESTE REGULABILI / PONTEIRAS AJUSTÁVEIS / НАСАДКИ - РАЗВОДНЫЙ КЛЮЧ**

| COD.  | CAP. (mm) | mm     |
|-------|-----------|--------|
| 56291 | 5-30      | 9 x 12 |



**CABEZAS CARRACA / RATCHET HEADS / TÊTES À CLIQUET / RATSCHENKÖPFE / TESTE A CRICCO / PONTEIRAS DE ROQUETE / НАСАДКИ ТРЕЩОТЧНЫЕ**

| COD.  | AF inch | Dientes / Teeth / Dents | mm     |
|-------|---------|-------------------------|--------|
| 57563 | 1/4     |                         |        |
| 57564 | 3/8     | 52                      | 9 x 12 |
| 57562 | 1/2     |                         |        |



• Posibilidad de suministrar con certificado de calibración externa ENAC / ENAC calibration certificate can be issued on demand / Possibilité de fournir avec le certificat d'étalonnage externe ENAC

## EGATORK

### INCH

| COD.  | AF inch | mm     |
|-------|---------|--------|
| 56454 | 5/16    | 9 x 12 |
| 56444 | 1/4     |        |
| 56455 | 3/8     |        |
| 56456 | 7/16    |        |
| 56457 | 1/2     |        |
| 56458 | 9/16    |        |
| 56459 | 5/8     |        |
| 56460 | 11/16   |        |
| 56461 | 3/4     |        |
| 56462 | 13/16   |        |
| 56463 | 7/8     |        |



### CABEZAS PORTAPUNTAS / HEX BIT HOLDER HEADS / ACCESOIRES PORTE-EMBOUTS / HEX-BIT-HALTERKÖPFE / TESTE PORTAINSERTI / CABEÇAS PORTA-PONTAS / ГОЛОВКИ-ДЕРЖАТЕЛИ БИТ

| COD.  | inch | mm     |
|-------|------|--------|
| 59072 | 1/4  | 9 x 12 |
| 59073 | 5/16 |        |



### CABEZAS PORTAPUNTAS REVERSIBLES / REVERSIBLE HEX BIT HOLDER HEADS / ACCESOIRES PORTE-EMBOUTS RÉVERSIBLE / UMKEHRBARE SECHSKANT-BIT-HALTERKÖPFE / TESTE PORTAINSERTI REVERSIBILI / CABEÇAS PORTA-PONTAS REVERSÍVEIS / РЕВЕРСИВНЫЕ ГОЛОВКИ-ДЕРЖАТЕЛИ БИТ

| COD.  | inch | mm     |
|-------|------|--------|
| 59076 | 1/4  | 9 x 12 |
| 59077 | 5/16 |        |



### CABEZAS ESTRELLA ABIERTA / BOX OPEN HEADS / TÊTES POLYAGONALES OUVERTES / BOX OFFENE KÖPFE / TESTE POLIGONALI APERTE / PONTEIRAS DE LUNETAS ABERTA / НАСАДКИ НАКИДНЫЕ С РАЗРЕЗОМ

### MM

| COD.  | AF mm | mm     |
|-------|-------|--------|
| 56279 | 10    | 9 x 12 |
| 56280 | 11    |        |
| 56281 | 12    |        |
| 56282 | 13    |        |
| 56283 | 14    |        |
| 56284 | 16    |        |
| 56285 | 17    |        |
| 56286 | 18    |        |
| 56287 | 19    |        |
| 56288 | 21    |        |
| 56289 | 22    |        |
| 56293 | 24    |        |



### INSERTO SOLDABLE / WELD-ON HEAD / EMBOUT À SOUDER / SCHWEISSKOPF / GHIERA SALDABILE / INSERÇÃO SOLDÁVEL / ПРИВАРНАЯ ВСТАВКА

| COD.  | mm     |
|-------|--------|
| 59082 | 9 x 12 |



### INCH

| COD.  | AF inch | mm     |
|-------|---------|--------|
| 59065 | 3/8     | 9 x 12 |
| 59066 | 7/16    |        |
| 59067 | 1/2     |        |
| 59068 | 9/16    |        |
| 59069 | 5/8     |        |
| 59070 | 11/16   |        |
| 59071 | 3/4     |        |



### ADAPTADORES / ADAPTERS / ADAPTATEUR / ADAPTER / ADATTATORI / ADAPTADORES / ПЕРЕХОДНИКИ

| COD.  | AF inch | mm      | L (mm) | g  |
|-------|---------|---------|--------|----|
| 59114 | 9 x 12  | 14 x 18 | 45     | 22 |



10

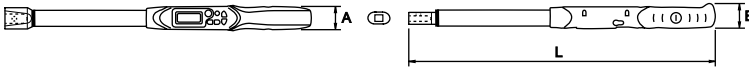
**APRIETE CONTROLADO**  
**CONTROLLED TIGHTENING**  
**SERRAGE CONTRÔLÉ**  
**KONTROLLIERTES ANZIEHEN**  
**CONTROLLO DI SERRAGGIO**  
**APERTO CONTROLADO**  
**КОНТРОЛИРУЕМАЯ ЗАТЯЖКА**



# EGAMASTER

■ 14 x 18

■ DIGITAL / DIGITAL / DIGITAL / DIGITAAL / DIGITALE / DIGITAL / ЦИФРОВОЙ ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ



| COD.  | mm      | N.m    | Lb.ft  | Lb.in    | Kg.cm    | L (mm) | A (mm) | B (mm) | Kg  |   |
|-------|---------|--------|--------|----------|----------|--------|--------|--------|-----|---|
| 57587 | 14 x 18 | 10-200 | 7-148  | 88-1770  | 102-2041 | 470    | 39     | 44     | 1,8 | 1 |
| 57588 |         | 17-340 | 12-251 | 150-3009 | 173-3469 | 590    |        |        |     |   |
| 57591 |         | 10-200 | 7-148  | 88-1770  | 102-2041 | 470    |        |        |     |   |
| 57592 |         | 17-340 | 12-251 | 150-3009 | 173-3469 | 590    |        |        |     |   |



12M

| COD.  | Precisión CW (a derechas) / Accuracy CW (clockwise) / Précision CW (sens horaire) | Precisión CCW (a izquierdas) / Accuracy CCW (counter clockwise) / Précision CCW (sens anti-horaire) | Resolución / Resolution / Résolution          | Memoria de datos / Data memory / Memoire de données | Comunicación de datos al ordenador / Data communication to the computer / Transmission de données à l'ordinateur | Cable para la comunicación de datos / Cable for data communication / Transmission de données |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 57587 | ±2%                                                                               | ±3%                                                                                                 | 0,01 N.m / 0,01 Lb.ft / 0,1 Lb.in / 0,1 Kg.cm | 50                                                  | -                                                                                                                | -                                                                                            |
| 57588 |                                                                                   |                                                                                                     | 0,1 N.m / 0,1 Lb.ft / 1 Lb.in / 1 Kg.cm       |                                                     |                                                                                                                  |                                                                                              |
| 57591 | ±1%                                                                               | ±2%                                                                                                 | 0,01 N.m / 0,01 Lb.ft / 0,1 Lb.in / 0,1 Kg.cm | 250                                                 | ●                                                                                                                | ●                                                                                            |
| 57592 |                                                                                   |                                                                                                     | 0,1 N.m / 0,1 Lb.ft / 1 Lb.in / 1 Kg.cm       |                                                     |                                                                                                                  |                                                                                              |

### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                                            |                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Certificado de calibración / Calibration certificate / Certificat de calibrage                                                                             | ●                                                                               |
| Pares prefijados / Preset Torque values / Paires Préétablies                                                                                               | 9                                                                               |
| Sistema de aviso / Warning system / Système d'alerte                                                                                                       | Alarma luminosa y sonora / Audible and light alarm / Alarme lumineuse et sonore |
| Modo de operación / Operation mode / Mode d'opération                                                                                                      | Peak/Track*                                                                     |
| Unidades de medida / Unit selection / Unités de mesure                                                                                                     | N.m / Lb.ft / Lb.in / Kg.cm                                                     |
| Cd con los programas para la comunicación de datos / Cd with the programs for data communication / Cd avec les programmes pour la communication de données | 57587 -<br>57588 -<br>57591 ●<br>57592 ●                                        |
| Calibración vía web / Web calibration / Calibrage par l'intermédiaire de web                                                                               | ●                                                                               |
| Baterías / Batteries / Piles                                                                                                                               | AA x 2                                                                          |
| Duración de la batería / Battery operation time / Durée de fonction de batterie                                                                            | 110 h                                                                           |
| Duración de la batería (standby) / Battery life (standby) / Durée de fonction de batterie (standby)                                                        | 1 año / 1 year / 1 année                                                        |
| Temperatura de trabajo / Working temperature / Température de travail                                                                                      | -10 °C ~ 60 °C                                                                  |
| Temperatura de almacenamiento / Storage temperature / Température de stockage                                                                              | -20 °C ~ 70 °C                                                                  |
| Dimensiones unión / Joint Dimensions / Dimension de l'union                                                                                                | 14 x 18 mm                                                                      |

\* : Modo Track: Valor de torsión actual - Modo Peak: Valor máximo de torsión / Track mode: Direct torque value - Peak mode: Max. torque Value / Mode Track: Valeur de torsion actuelle - Mode Peak: Valeur maximum de torsion

■ ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACCESSORIOS / ЗАПАСНЫЕ ЧАСТИ

| COD.  | Descripción / Description / Description | L (m) |
|-------|-----------------------------------------|-------|
| 57573 | Cable USB / USB cable / Câble USB       | 1,2   |



• Posibilidad de suministrar con certificado de calibración externa ENAC / ENAC calibration certificate can be issued on demand / Possibilité de fournir avec le certificat d'étalonnage externe ENAC  
**12M** GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

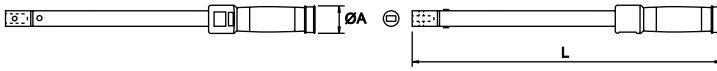
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 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
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**EGAMASTER**  
 ART IN INNOVATION

519

# EGATORK

## ANALÓGICA / ANALOGIC / ANALOGIQUE / ANALOG / ANALOGICO / ANALÓGICA / АНАЛОГОВЫЙ ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ



| COD.  | mm      | N.m    | Lb.ft  | L (mm) | A (mm) | Kg  |   |
|-------|---------|--------|--------|--------|--------|-----|---|
| 56223 | 14 x 18 | 40-200 | 30-150 | 460    | 38     | 0,9 | 1 |
| 56249 |         | 65-335 | 50-250 | 520    |        | 1,1 |   |
| 56224 |         | 80-400 | 60-300 | 700    |        | 1,9 |   |

12M | Kit de reparación disponible / Repair kit available / Kit de réparation disponible



### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                                                               |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Precisión / Accuracy / Précision                                                                                                                                              | 3%         |
| Certificado de calibración / Calibration certificate / Certificat de calibrage                                                                                                | ●          |
| Reversible / Reversible / Réversible                                                                                                                                          | ●          |
| Dimensiones unión / Joint Dimensions / Dimension de l'union                                                                                                                   | 14 x 18 mm |
| Sistema de cabezas fijas + carraca + estrella + estrella+ ajustable / Ratchet + open head + box head + adjustable / Système de têtes cliquet + fixes + polygonale + à molette | ●          |
| Estuche individual / Individual case / Étui individuel                                                                                                                        | ●          |

## CABEZAS INTERCAMBIABLES / INTERCHANGEABLE HEADS / TÊTES INTERCHANGEABLES / AUSWECHSELBARE KÖPFE / TESTE INTERCAMBIABILI / CABEÇAS INTERCAMBIÁVEIS / СМЕННЫЕ НАСАДКИ ДЛЯ ДИНАМОМЕТРИЧЕСКОГО КЛЮЧА

### CABEZAS FIJAS / OPEN HEADS / TÊTES À FOURCHES / OFFENE KÖPFE / TESTE FISSE / PONTEIRAS DE BOCA / НАСАДКИ РОЖКОВЫЕ

#### MM

| COD.  | mm | mm      |
|-------|----|---------|
| 64869 | 8  | 14 x 18 |
| 64870 | 9  |         |
| 64871 | 10 |         |
| 64872 | 11 |         |
| 64873 | 12 |         |
| 65369 | 13 |         |
| 65370 | 14 |         |
| 65371 | 15 |         |
| 65372 | 16 |         |
| 65373 | 17 |         |
| 65374 | 18 |         |
| 65375 | 19 |         |
| 65376 | 21 |         |
| 65377 | 22 |         |
| 59058 | 23 |         |
| 65378 | 24 |         |
| 59059 | 25 |         |
| 65379 | 26 |         |
| 65380 | 27 |         |
| 65381 | 29 |         |
| 65382 | 30 |         |
| 65383 | 32 |         |
| 59061 | 34 |         |
| 59062 | 36 |         |
| 59063 | 38 |         |
| 59064 | 41 |         |



#### INCH

| COD.  | inch   | mm      |
|-------|--------|---------|
| 59080 | 7/16   | 14 x 18 |
| 56464 | 1/2    |         |
| 56465 | 9/16   |         |
| 56466 | 5/8    |         |
| 56467 | 11/16  |         |
| 56468 | 3/4    |         |
| 56469 | 13/16  |         |
| 56470 | 7/8    |         |
| 56471 | 15/16  |         |
| 56472 | 1      |         |
| 59081 | 1.1/16 |         |
| 56473 | 1.1/8  |         |
| 56474 | 1.1/4  |         |



### CABEZAS AJUSTABLES / ADJUSTABLE HEADS / TÊTES À MOLETTE / VERSTELLBARE KÖPFE / TESTE REGOLABILI / PONTEIRAS AJUSTÁVEIS / НАСАДКИ - РАЗВОДНЫЙ КЛЮЧ

| COD.  | CAP. (mm) | mm      |
|-------|-----------|---------|
| 56292 | 10-41     | 14 x 18 |



# EGAMASTER

## CABEZAS CARRACA / RATCHET HEADS / TÊTES À CLIQUET / RATSCHENKÖPFE / TESTE A CRICCO / PONTEIRAS DE ROQUETE / НАСАДКИ ТРЕЩОТЧНЫЕ

| COD.  | AF inch | Dientes / Teeth / Dents | mm      |
|-------|---------|-------------------------|---------|
| 65384 | 3/8     | 24                      | 14 x 18 |
| 65385 | 1/2     |                         |         |
| 56290 | 3/4     | 45                      |         |



| COD.  | AF inch | Dientes / Teeth / Dents | mm      |
|-------|---------|-------------------------|---------|
| 57598 | 1/2     | 52                      | 14 x 18 |
| 57599 | 3/4     |                         |         |



| COD.  | AF inch | Dientes / Teeth / Dents | mm      |
|-------|---------|-------------------------|---------|
| 57572 | 1/2     | 52                      | 14 x 18 |



| COD.  | AF inch | Dientes / Teeth / Dents | mm      |
|-------|---------|-------------------------|---------|
| 59087 | 3/8     | 72                      | 14 x 18 |
| 59088 | 1/2     |                         |         |
| 59089 | 3/4     |                         |         |



## CABEZAS ESTRELLA / BOX HEADS / TÊTES POLYAGONALES / BOX KÖPFE / TESTE POLIGONALI / PONTEIRAS DE LUNETAS / НАСАДКИ НАКИДНЫЕ

MM

| COD.  | AF mm | mm      |
|-------|-------|---------|
| 64875 | 13    | 14 x 18 |
| 64876 | 14    |         |
| 64877 | 15    |         |
| 64878 | 16    |         |
| 64879 | 17    |         |
| 64880 | 18    |         |
| 64881 | 19    |         |
| 64882 | 21    |         |
| 64883 | 22    |         |
| 64884 | 24    |         |
| 64885 | 27    |         |
| 56540 | 28    |         |
| 64886 | 30    |         |
| 64887 | 32    |         |
| 56541 | 34    |         |
| 56542 | 36    |         |
| 56543 | 41    |         |



INCH

| COD.  | AF inch | mm      |
|-------|---------|---------|
| 56443 | 7/16    | 14 x 18 |
| 56475 | 1/2     |         |
| 56476 | 9/16    |         |
| 56477 | 5/8     |         |
| 56478 | 11/16   |         |
| 56479 | 3/4     |         |
| 56480 | 13/16   |         |
| 56481 | 7/8     |         |
| 56482 | 15/16   |         |
| 56483 | 1       |         |



## CABEZAS PORTAPUNTAS / HEX BIT HOLDER HEADS / ACCESOIRES PORTE-EMBOUS / HEX-BIT-HALTERKÖPFE / TESTE PORTAINSERTE / CABEÇAS PORTA-PONTAS / ГОЛОВКИ-ДЕРЖАТЕЛИ БИТ

INCH

| COD.  | inch | mm      |
|-------|------|---------|
| 59075 | 5/16 | 14 x 18 |



## CABEZAS PORTAPUNTAS REVERSIBLES / REVERSIBLE HEX BIT HOLDER HEADS / ACCESOIRES PORTE-EMBOUS RÉVERSIBLE / UMKEHRBARE SECHSKANT-BIT-HALTERKÖPFE / TESTE PORTAINSERTE REVERSIBILI / CABEÇAS PORTA-PONTAS REVERSÍVEIS / РЕВЕРСИВНЫЕ ГОЛОВКИ-ДЕРЖАТЕЛИ БИТ

INCH

| COD.  | inch | mm      |
|-------|------|---------|
| 59078 | 1/4  | 14 x 18 |
| 59079 | 5/16 |         |



## INSERTO SOLDABLE / WELD-ON HEAD / EMBOUT À SOUDER / SCHWEISSKOPF / GHIERA SILDABILE / INSERÇÃO SOLDÁVEL / ПРИВАРНАЯ ВСТАВКА

INCH

| COD.  | mm      |
|-------|---------|
| 59083 | 14 x 18 |



## ADAPTADORES / ADAPTERS / ADAPTATEURS / ADAPTER / ADATTATORI / ADAPTADORES / ПЕРЕХОДНИКИ

INCH

| COD.  | AF inch | mm      | L (mm) | g   |
|-------|---------|---------|--------|-----|
| 59115 | 14 x 18 | 9 x 12  | 50     | 32  |
| 59117 |         | 24 x 32 | 80     | 900 |



• Posibilidad de suministrar con certificado de calibración externa ENAC / ENAC calibration certificate can be issued on demand / Possibilité de fournir avec le certificat d'étalonnage externe ENAC

# 10

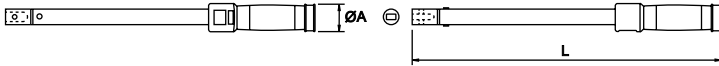
**APRIETE CONTROLADO**  
**CONTROLLED TIGHTENING**  
**SERRAGE CONTRÔLÉ**  
**KONTROLLIERTES ANZIEHEN**  
**CONTROLLO DI SERRAGGIO**  
**APERTO CONTROLADO**  
**КОНТРОЛИРУЕМАЯ ЗАТЯЖКА**



## EGATORK

■ 24 x 32

■ ANALÓGICA / ANALOGIC / ANALOGIQUE / ANALOG / ANALOGICO / ANALÓGICA / АНАЛОГОВЫЙ ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ



| COD.  | mm      | N.m      | Lb.ft   | L (mm) | A (mm) | Kg  | Box |
|-------|---------|----------|---------|--------|--------|-----|-----|
| 56225 |         | 100-500  | 80-400  | 700    |        | 2,8 |     |
| 62946 | 24 x 32 | 120-800  | 80-600  | 1040   | 38     | 4,9 | 1   |
| 62947 |         | 200-1000 | 150-750 |        |        |     |     |



12M | Kit de reparación disponible / Repair kit available / Kit de réparation disponible

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                                                                                                                                                           |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Precisión / Accuracy / Précision                                                                                                                                                                                                   | 3%         |
| Certificado de calibración / Calibration certificate / Certificat de calibrage                                                                                                                                                     | ●          |
| Reversible / Reversible / Réversible                                                                                                                                                                                               | ●          |
| Dimensiones unión / Joint Dimensions / Dimension de l'union                                                                                                                                                                        | 24 x 32 mm |
| Sistema de cabezas fijas + carraca + estrella + estrella abierta + ajustable / Ratchet + open head + box head + box open head system + adjustable / Système de têtes cliquet + fixes + polygonale + polygonale ouverte + à molette | ●          |
| Estuche individual / Individual case / Étui individuel                                                                                                                                                                             | ●          |

■ CABEZAS INTERCAMBIABLES / INTERCHANGEABLE HEADS / TÊTES INTERCHANGEABLES / AUSWECHSELBARE KÖPFE / TESTE INTERCAMBIABILI / CABEÇAS INTERCAMBIÁVEIS / СМЕННЫЕ НАСАДКИ ДЛЯ ДИНАМОМЕТРИЧЕСКОГО КЛЮЧА

■ CABEZAS FIJAS / OPEN HEADS / TÊTES À FOURCHES / OFFENE KÖPFE / TESTE FISSE / PONTEIRAS DE BOCA / НАСАДКИ РОЖКОВЫЕ

■ MM

| COD.  | AF mm | mm      |
|-------|-------|---------|
| 68242 | 20    | 24 x 32 |
| 68243 | 24    |         |
| 68244 | 27    |         |
| 68245 | 28    |         |
| 68246 | 30    |         |
| 68247 | 32    |         |
| 68248 | 34    |         |
| 68249 | 36    |         |
| 68250 | 38    |         |
| 68251 | 41    |         |
| 68252 | 45    |         |
| 68253 | 46    |         |
| 68254 | 50    |         |
| 68255 | 55    |         |
| 68256 | 60    |         |
| 68257 | 65    |         |
| 68258 | 67    |         |
| 68259 | 70    |         |
| 57097 | 80    |         |



■ INCH

| COD.  | AF inch | mm      |
|-------|---------|---------|
| 56484 | 5/8     | 24 x 32 |
| 56485 | 3/4     |         |
| 56486 | 7/8     |         |
| 56487 | 1.1/8   |         |
| 56488 | 1.3/4   |         |
| 56489 | 2.1/4   |         |



■ CABEZAS CARRACA / RATCHET HEADS / TÊTES À CLIQUET / RATSCHENKÖPFE / TESTE A CRICCO / PONTEIRAS DE ROQUETE / НАСАДКИ ТРЕЩОТОЧНЫЕ

| COD.  | AF inch | Dientes / Teeth / Dents | mm      |
|-------|---------|-------------------------|---------|
| 68240 | 3/4     | 45                      | 24 x 32 |
| 68241 | 1       |                         |         |



12M | GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

# EGAMASTER

## CABEZAS ESTRELLA / BOX HEADS / TÊTES POLYAGONALES / BOX KÖPFE / TESTE POLIGONALI / PONTEIRAS DE LUNETA / НАСАДКИ НАКИДНЫЕ

MM

| COD.  | AF mm | mm      |
|-------|-------|---------|
| 68260 | 24    |         |
| 68261 | 30    |         |
| 68262 | 32    |         |
| 68263 | 34    |         |
| 68264 | 36    |         |
| 68265 | 38    |         |
| 68266 | 41    | 24 x 32 |
| 68267 | 46    |         |
| 68268 | 50    |         |
| 68269 | 55    |         |
| 68270 | 60    |         |
| 68271 | 65    |         |
| 68272 | 70    |         |



## CABEZAS ESTRELLA ABIERTA / BOX OPEN HEADS / TÊTES POLYAGONALES OUVERTES / BOX OFFENE KÖPFE / TESTE POLIGONALI APERTE / PONTEIRAS DE LUNETA ABERTA / НАСАДКИ НАКИДНЫЕ С РАЗРЕЗОМ

MM

| COD.  | AF mm | mm      |
|-------|-------|---------|
| 68273 | 19    |         |
| 68274 | 30    |         |
| 68275 | 32    |         |
| 68276 | 36    | 24 x 32 |
| 68277 | 38    |         |
| 68278 | 50    |         |
| 68279 | 70    |         |



INCH

| COD.  | AF inch | mm      |
|-------|---------|---------|
| 56490 | 15/16   | 24 x 32 |
| 56491 | 1.1/8   |         |



## ADAPTADORES / ADAPTERS / АДАПТАТЕУРС / ADAPTER / ADATTATORI / АДАПТАТОРС / ПЕРЕХОДНИКИ

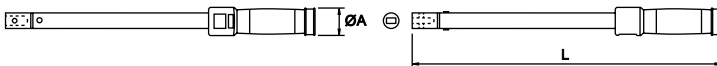
INCH

| COD.  | AF inch | mm      | L (mm) | g    |
|-------|---------|---------|--------|------|
| 59116 | 24 x 32 | 14 x 18 | 90     | 500  |
| 59119 | 24 x 32 | 27 x 36 | 105    | 1250 |



27 x 36

## ANALÓGICA / ANALOGIC / ANALOGIQUE / ANALOG / ANALOGICO / ANALÓGICA / АНАЛОГОВЫЙ ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ



| COD.  | mm      | N.m      | Lb.ft    | L (mm) | A (mm) | Kg | kg |
|-------|---------|----------|----------|--------|--------|----|----|
| 56494 |         | 300-1500 | 200-1100 |        |        |    |    |
| 56495 | 27 x 36 | 400-2000 | 300-1500 | 1250   | 38     | 11 | 1  |
| 56496 |         | 600-3000 | 400-2200 |        |        | 12 |    |



12M | Kit de reparación disponible / Repair kit available / Kit de réparation disponible

### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                                                                                                                    |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Precisión / Accuracy / Précision                                                                                                                                                                                                   | 3%         |
| Certificado de calibración / Calibration certificate / Certificat de calibrage                                                                                                                                                     | ●          |
| Reversible / Reversible / Réversible                                                                                                                                                                                               | ●          |
| Dimensiones unión / Joint Dimensions / Dimension de l'union                                                                                                                                                                        | 27 x 36 mm |
| Sistema de cabezas fijas + carraca + estrella + estrella abierta + ajustable / Ratchet + open head + box head + box open head system + adjustable / Système de têtes cliquet + fixes + polygonale + polygonale ouverte + à molette | ●          |
| Estuche individual / Individual case / Étui individuel                                                                                                                                                                             | ●          |

## BARRA DE EXTENSIÓN PARA LLAVE DINAMOMÉTRICA / EXTENSION BAR FOR TORQUE WRENCH / RALLONGE POUR CLÉ DYNAMOMÉTRIQUE / VERLÄNGERUNG F/ DREHMOMENTSCHLÜSSEL / BARRA ESTENSIBILE PER CHIAVE DINAMOMETRICA / EXTENSÃO PARA CHAVE DINAMOMÉTRICA / УДЛИНИТЕЛЬ ДЛЯ ДИНАМОМЕТРИЧЕСКОГО КЛЮЧА

| COD.  | L (mm) | O.D. mm | Válido para / Valid for / Valable pour | Kg  | kg |
|-------|--------|---------|----------------------------------------|-----|----|
| 56497 | 1100   | 38      | 62977, 62978, 56494, 56495             | 3,4 | 1  |
| 56498 |        | 40,5    | 62979, 56496                           | 4,7 |    |



• Posibilidad de suministrar con certificado de calibración externa ENAC / ENAC calibration certificate can be issued on demand / Possibilité de fournir avec le certificat d'étalonnage externe ENAC  
 12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

# EGATORK

CABEZAS INTERCAMBIABLES / INTERCHANGEABLE HEADS / TÊTES INTERCHANGEABLES / AUSWECHSELBARE KÖPFE / TESTE INTERCAMBIABILI / CABEÇAS INTERCAMBIÁVEIS / СМЕННЫЕ НАСАДКИ ДЛЯ ДИНАМОМЕТРИЧЕСКОГО КЛЮЧА

CABEZAS FIJAS / OPEN HEADS / TÊTES À FOURCHES / OFFENE KÖPFE / TESTE FISSE / PONTEIRAS DE BOCA

MM

| COD.  | AF mm | mm      |
|-------|-------|---------|
| 56510 | 41    |         |
| 56511 | 46    |         |
| 56512 | 50    |         |
| 56513 | 55    |         |
| 56514 | 60    |         |
| 56515 | 61    |         |
| 56516 | 65    | 27 x 36 |
| 56517 | 70    |         |
| 56518 | 75    |         |
| 56519 | 80    |         |
| 56520 | 90    |         |
| 56521 | 95    |         |



CABEZAS ESTRELLA ABIERTA / BOX OPEN HEADS / TÊTES POLYGONALES OUVERTES / BOX OFFENE KÖPFE / TESTE POLIGONALI APERTE / PONTEIRAS DE LUNETA ABERTA / НАСАДКИ НАКИДНЫЕ С РАЗРЕЗОМ

MM

| COD.  | AF mm | mm      |
|-------|-------|---------|
| 56536 | 30    |         |
| 56537 | 32    | 27 x 36 |
| 56538 | 36    |         |



ADAPTADORES / ADAPTERS / ADAPTATEURS / ADAPTER / ADATTATORI / ADAPTADORES / ПЕРЕХОДНИКИ

NI

| COD.  | AF inch | mm      | L (mm) | g    |
|-------|---------|---------|--------|------|
| 59118 | 27 x 36 | 24 x 32 | 105    | 1150 |



CABEZAS CARRACA / RATCHET HEADS / TÊTES À CLIQUET / RATSCHEKÖPFE / TESTE A CRICCO / PONTEIRAS DE ROQUETE / НАСАДКИ ТРЕЩОТЧНЫЕ

| COD.  | AF inch | Dientes / Teeth / Dents | mm      |
|-------|---------|-------------------------|---------|
| 56539 | 1       | 45                      | 27 x 36 |



CABEZAS ESTRELLA / BOX HEADS / TÊTES POLYGONALES / BOX KÖPFE / TESTE POLIGONALI / PONTEIRAS DE LUNETA / НАСАДКИ НАКИДНЫЕ

MM

| COD.  | AF mm | mm      |
|-------|-------|---------|
| 56522 | 30    |         |
| 56523 | 32    |         |
| 56524 | 34    |         |
| 56525 | 36    |         |
| 56526 | 38    |         |
| 56527 | 41    |         |
| 56528 | 46    | 27 x 36 |
| 56529 | 50    |         |
| 56530 | 55    |         |
| 56531 | 60    |         |
| 56532 | 65    |         |
| 56533 | 70    |         |
| 56534 | 75    |         |
| 56535 | 80    |         |

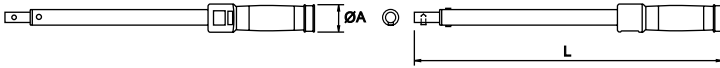




# EGAMASTER

■ Ø16

■ ANALÓGICA / ANALÓGIC / ANALOGIQUE / ANALOG / ANALOGICO / ANALÓGICA / АНАЛОГОВЫЙ ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ



| COD.  | Conexión /<br>Connection /<br>Connexion | N.m     | Lb.ft  | L (mm) | A (mm) |      |   |
|-------|-----------------------------------------|---------|--------|--------|--------|------|---|
| 66001 | Ø16                                     | 2,5-12  | 20-105 | 285    | 38     | 440  | 1 |
| 66002 |                                         | 6,0-30  | 50-250 | 300    |        | 580  |   |
| 66003 |                                         | 10,0-60 | 9,0-45 | 370    |        | 720  |   |
| 66004 |                                         | 40-200  | 30-150 | 450    |        | 920  |   |
| 66005 |                                         | 65-335  | 50-250 | 510    |        | 1060 |   |
| 66006 |                                         | 80-400  | 60-300 | 635    |        | 1850 |   |



12M ■ Kit de reparación disponible / Repair kit available / Kit de réparation disponible

## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                                                                               |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Precisión / Accuracy / Précision                                                                                                                                                              | 4%  |
| Certificado de calibración / Calibration certificate / Certificat de calibrage                                                                                                                | ●   |
| Reversible / Reversible / Réversible                                                                                                                                                          | ●   |
| Dimensiones unión / Joint Dimensions / Dimension de l'union                                                                                                                                   | Ø16 |
| Sistema de cabezas fijas + carraca + estrella + estrella abierta / Ratchet + open head + box head + box open head system / Système de têtes cliquet + fixes + polygonale + polygonale ouverte | ●   |
| Estuche individual / Individual case / Étui individuel                                                                                                                                        | ●   |

■ CABEZAS INTERCAMBIABLES / INTERCHANGEABLE HEADS / TÊTES INTERCHANGEABLES / AUSWECHSELBARE KÖPFE / TESTE INTERCAMBIABILI / CABEÇAS INTERCAMBIÁVEIS / СМЕННЫЕ НАСАДКИ ДЛЯ ДИНАМОМЕТРИЧЕСКОГО КЛЮЧА

■ CABEZAS CARRACA / RATCHET HEADS / TÊTES À CLIQUET / RATSCHENKÖPFE / TESTE A CRICCO / PONTEIRAS DE ROQUETE / НАСАДКИ ТРЕЩОТЧНЫЕ

| COD.  |     | Dientes /<br>Teeth /<br>Dents | Conexión / Connection /<br>Connexion |
|-------|-----|-------------------------------|--------------------------------------|
| 66008 | 1/4 | 45                            | Ø16                                  |
| 66009 | 3/8 |                               |                                      |
| 66010 | 1/2 |                               |                                      |



| COD.  |    | Conexión / Connection /<br>Connexion |
|-------|----|--------------------------------------|
| 66211 | 24 | Ø16                                  |
| 66212 | 25 |                                      |
| 66213 | 26 |                                      |
| 66214 | 27 |                                      |
| 66215 | 28 |                                      |
| 66216 | 29 |                                      |
| 66217 | 30 |                                      |
| 66218 | 31 |                                      |
| 66219 | 32 |                                      |
| 66220 | 36 |                                      |
| 66221 | 41 |                                      |
| 66222 | 46 |                                      |
| 66223 | 50 |                                      |

■ CABEZAS FIJAS / OPEN HEADS / TÊTES À FOURCHES / OFFENE KÖPFE / TESTE FISSE / PONTEIRAS DE BOCA / НАСАДКИ РОЖКОВЫЕ

■ MM

| COD.  |    | Conexión / Connection /<br>Connexion |
|-------|----|--------------------------------------|
| 66044 | 7  | Ø16                                  |
| 66045 | 8  |                                      |
| 66046 | 9  |                                      |
| 66197 | 10 |                                      |
| 66198 | 11 |                                      |
| 66199 | 12 |                                      |
| 66200 | 13 |                                      |
| 66201 | 14 |                                      |
| 66202 | 15 |                                      |
| 66203 | 16 |                                      |
| 66204 | 17 |                                      |
| 66205 | 18 |                                      |
| 66206 | 19 |                                      |
| 66207 | 20 |                                      |
| 66208 | 21 |                                      |
| 66209 | 22 |                                      |
| 66210 | 23 |                                      |



■ INCH

| COD.  |        | Conexión / Connection /<br>Connexion |
|-------|--------|--------------------------------------|
| 66230 | 1/2    | Ø16                                  |
| 66231 | 9/16   |                                      |
| 66232 | 5/8    |                                      |
| 66233 | 11/16  |                                      |
| 66234 | 3/4    |                                      |
| 66235 | 13/16  |                                      |
| 66236 | 7/8    |                                      |
| 66237 | 15/16  |                                      |
| 66238 | 1      |                                      |
| 66239 | 1.1/16 |                                      |



• Posibilidad de suministrar con certificado de calibración externa ENAC / ENAC calibration certificate can be issued on demand / Possibilité de fournir avec le certificat d'étalonnage externe ENAC  
 12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

# EGATORK

CABEZAS ESTRELLA / BOX HEADS / TÊTES POLYGONALES / BOX KÖPFE / TESTE POLIGONALI / PONTEIRAS DE LUNETAS / НАСАДКИ НАКИДНЫЕ

MM

| COD.  | AF mm | Conexión / Connection / Connexion |
|-------|-------|-----------------------------------|
| 66011 | 7     |                                   |
| 66012 | 8     |                                   |
| 66013 | 9     |                                   |
| 66014 | 10    |                                   |
| 66015 | 11    |                                   |
| 66016 | 12    |                                   |
| 66017 | 13    |                                   |
| 66018 | 14    |                                   |
| 66019 | 15    |                                   |
| 66020 | 16    |                                   |
| 66021 | 17    |                                   |
| 66022 | 18    |                                   |
| 66023 | 19    |                                   |
| 66024 | 20    |                                   |
| 66025 | 21    |                                   |
| 66026 | 22    |                                   |
| 66027 | 23    |                                   |
| 66028 | 24    |                                   |
| 66029 | 25    |                                   |
| 66030 | 26    |                                   |
| 66031 | 27    |                                   |
| 66032 | 28    |                                   |
| 66033 | 29    |                                   |
| 66034 | 30    |                                   |
| 66035 | 31    |                                   |
| 66036 | 32    |                                   |



Ø16

CABEZAS ESTRELLA ABIERTA / BOX OPEN HEADS / TÊTES POLYGONALES OUVERTES / BOX OFFENE KÖPFE / TESTE POLIGONALI APERTE / PONTEIRAS DE LUNETAS ABERTA / НАСАДКИ НАКИДНЫЕ С РАЗРЕЗОМ

MM

| COD.  | AF mm | Conexión / Connection / Connexion |
|-------|-------|-----------------------------------|
| 62001 | 7     |                                   |
| 62002 | 8     |                                   |
| 62003 | 9     |                                   |
| 62004 | 10    |                                   |
| 62005 | 11    |                                   |
| 62006 | 12    |                                   |
| 62007 | 13    |                                   |
| 62008 | 14    |                                   |
| 62009 | 15    |                                   |
| 62010 | 16    |                                   |
| 62011 | 17    |                                   |
| 62012 | 18    |                                   |
| 62013 | 19    |                                   |
| 62014 | 20    |                                   |
| 62015 | 21    |                                   |
| 62016 | 22    |                                   |
| 62017 | 23    |                                   |
| 62018 | 24    |                                   |
| 62019 | 25    |                                   |
| 62020 | 26    |                                   |
| 62021 | 27    |                                   |
| 62022 | 28    |                                   |
| 62023 | 29    |                                   |
| 62024 | 30    |                                   |
| 62025 | 32    |                                   |



Ø16

INCH

| COD.  | AF inch | Conexión / Connection / Connexion |
|-------|---------|-----------------------------------|
| 66042 | 1/4     |                                   |
| 66043 | 1.1/8   |                                   |



Ø16

# 10

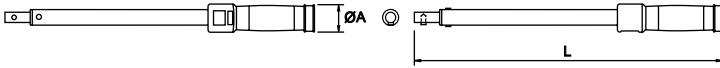
**APRIETE CONTROLADO**  
**CONTROLLED TIGHTENING**  
**SERRAGE CONTRÔLÉ**  
**KONTROLLIERTES ANZIEHEN**  
**CONTROLLO DI SERRAGGIO**  
**APERTO CONTROLADO**  
**КОНТРОЛИРУЕМАЯ ЗАТЯЖКА**



# EGAMASTER

■ Ø22

■ ANALÓGICA / ANALOGIC / ANALOGIQUE / ANALOG / ANALOGICO / ANALÓGICA / АНАЛОГОВЫЙ ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ



| COD.         | Conexión / Connection / Connexion | N.m      | Lb.ft   | L (mm) | A (mm) |     |   |
|--------------|-----------------------------------|----------|---------|--------|--------|-----|---|
| <b>66007</b> | Ø22                               | 200-1000 | 150-750 | 990    | 38     | 4,2 | 1 |

12M | Kit de reparación disponible / Repair kit available / Kit de réparation disponible



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                                                                 |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Precisión / Accuracy / Précision                                                                                                                                | 4%  |
| Certificado de calibración / Calibration certificate / Certificat de calibrage                                                                                  | ●   |
| Reversible / Reversible / Réversible                                                                                                                            | ●   |
| Dimensiones unión / Joint Dimensions / Dimension de l'union                                                                                                     | Ø22 |
| Sistema de cabezas fijas + estrella + estrella abierta / Open head + box head + box open head system / Système de têtes fixes + polygonale + polygonale ouverte | ●   |
| Estuche individual / Individual case / Étui individuel                                                                                                          | ●   |

■ CABEZAS INTERCAMBIABLES / INTERCHANGEABLE HEADS / TÊTES INTERCHANGEABLES / AUSWECHSELBARE KÖPFE / TESTE INTERCAMBIABILI / CABEÇAS INTERCAMBIÁVEIS / СМЕННЫЕ НАСАДКИ ДЛЯ ДИНАМОМЕТРИЧЕСКОГО КЛЮЧА

■ CABEZAS CARRACA / RATCHET HEADS / TÊTES À CLIQUET / RATSCHENKÖPFE / TESTE A CRICCO / PONTEIRAS DE ROQUETE / НАСАДКИ ТРЕЩОТЧНЫЕ

■ INCH

| COD.         |   | Conexión / Connection / Connexion |
|--------------|---|-----------------------------------|
| <b>66260</b> | 1 | Ø22                               |



■ CABEZAS ESTRELLA / BOX HEADS / TÊTES POLYGONALES / BOX KÖPFE / TESTE POLIGONALI / PONTEIRAS DE LUNETA / НАСАДКИ НАКИДНЫЕ

■ MM

| COD.         |    | Conexión / Connection / Connexion |
|--------------|----|-----------------------------------|
| <b>66037</b> | 30 | Ø22                               |
| <b>66038</b> | 32 |                                   |
| <b>66039</b> | 36 |                                   |
| <b>66040</b> | 41 |                                   |
| <b>66041</b> | 46 |                                   |



■ CABEZAS FIJAS / OPEN HEADS / TÊTES À FOURCHES / OFFENE KÖPFE / TESTE FISSE / PONTEIRAS DE BOCA / НАСАДКИ РОЖКОВЫЕ

■ MM

| COD.         |    | Conexión / Connection / Connexion |
|--------------|----|-----------------------------------|
| <b>66224</b> | 30 | Ø22                               |
| <b>66225</b> | 32 |                                   |
| <b>66226</b> | 36 |                                   |
| <b>66227</b> | 41 |                                   |
| <b>66228</b> | 46 |                                   |
| <b>66229</b> | 50 |                                   |



■ CABEZAS ESTRELLA ABIERTA / BOX OPEN HEADS / TÊTES POLYGONALES OUVERTES / BOX OFFENE KÖPFE / TESTE POLIGONALI APERTE / PONTEIRAS DE LUNETA ABERTA / НАСАДКИ НАКИДНЫЕ С РАЗРЕЗОМ

■ INCH

| COD.         |        | Conexión / Connection / Connexion |
|--------------|--------|-----------------------------------|
| <b>62026</b> | 1.7/16 | Ø22                               |
| <b>62027</b> | 1.5/8  |                                   |



• Posibilidad de suministrar con certificado de calibración externa ENAC / ENAC calibration certificate can be issued on demand / Possibilité de fournir avec le certificat d'étalonnage externe ENAC  
**12M** GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

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 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
 Si vous ne trouvez pas l'article que vous desirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)

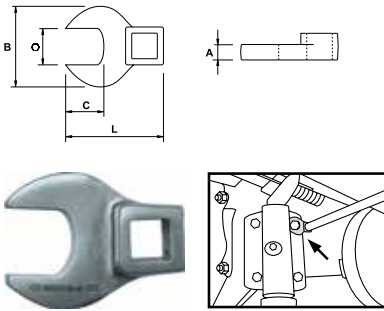


## EGATORK

**LLAVE FIJA CROWFOOT / OPEN END CROWFOOT WRENCH / CLÉ À FOURCHE CROWFOOT / EINSTECK-MAULSCHLÜSSEL / CHIAVE FISSA CROWFOOT / PONTEIRA DE BOCA COM QUADRADO INTERIOR / РОЖКОВЫЙ КЛЮЧ С КВАДРАТОМ**

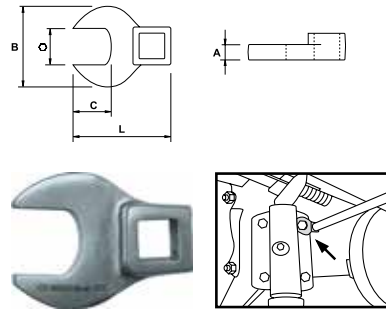
**1/4"**

**MM**



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | g  |    |   |
|-------|-------|--------|--------|--------|--------|----|----|---|
| 57211 | 7     | 30     |        | 25     | 6      | 70 |    |   |
| 57212 | 8     | 31     | 6      | 26     | 7      |    |    |   |
| 57213 | 9     | 33     |        | 28     | 8      | 75 |    |   |
| 57214 | 10    | 35     |        | 30     | 9      |    | 10 | • |
| 57215 | 11    | 36     |        | 31     | 11     | 90 |    |   |
| 57216 | 12    | 38     | 7      | 34     | 12     |    |    |   |
| 57217 | 13    | 39     |        | 35     | 13     | 95 |    |   |

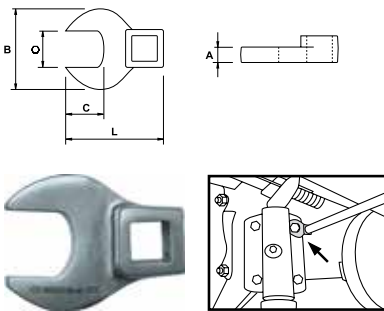
**INCH**



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | g   |    |   |
|-------|---------|--------|--------|--------|--------|-----|----|---|
| 57218 | 5/16    | 31     |        | 26     | 7      | 70  |    |   |
| 57219 | 3/8     | 33     | 6      | 28     | 8      | 75  |    |   |
| 57220 | 7/16    | 35     |        | 30     | 9      |     | 10 | • |
| 57221 | 1/2     | 38     | 7      | 34     | 12     | 92  |    |   |
| 57222 | 9/16    | 39     |        | 36     | 14     | 100 |    |   |

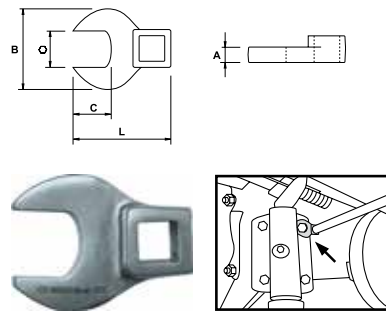
**3/8"**

**MM**



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | g   |  |  |
|-------|-------|--------|--------|--------|--------|-----|--|--|
| 55710 | 10    | 36     | 6      | 24     | 10     | 28  |  |  |
| 55711 | 11    | 39     | 6,5    | 26     | 13     | 35  |  |  |
| 55712 | 12    | 40     | 7,2    | 28     | 14     | 40  |  |  |
| 55713 | 13    | 42     | 8,3    | 30     | 15     | 41  |  |  |
| 55714 | 14    | 46     | 8,4    | 34     | 17     | 50  |  |  |
| 55715 | 15    | 48     | 8,8    | 36     | 18     | 56  |  |  |
| 55716 | 16    | 50     | 9      | 40     | 21     | 62  |  |  |
| 55717 | 17    | 55     | 9,5    | 46     | 22,5   | 80  |  |  |
| 55718 | 19    | 65     | 10     | 54     | 26,5   | 140 |  |  |
| 55719 | 21    |        |        |        | 25,5   | 100 |  |  |
| 55720 | 22    |        |        |        | 23,5   | 100 |  |  |
| 55721 | 24    |        |        |        | 25,5   | 140 |  |  |
| 55722 | 25    |        |        |        | 26,5   | 140 |  |  |
| 55723 | 27    |        |        |        | 28,5   | 200 |  |  |

**INCH**



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | g   |  |  |
|-------|---------|--------|--------|--------|--------|-----|--|--|
| 55724 | 3/8     | 36     | 6      | 24     | 10     | 28  |  |  |
| 55725 | 7/16    | 39     | 6,5    | 26     | 13     | 35  |  |  |
| 55726 | 1/2     | 40     | 7,2    | 28     | 14     | 40  |  |  |
| 55727 | 9/16    | 42     | 8,3    | 30     | 15     | 41  |  |  |
| 55728 | 5/8     | 46     | 8,4    | 34     | 17     | 50  |  |  |
| 55729 | 11/16   | 48     | 8,8    | 36     | 18     | 56  |  |  |
| 55730 | 3/4     | 50     | 9      | 40     | 21     | 62  |  |  |
| 55731 | 13/16   | 55     | 9,5    | 46     | 21,5   | 80  |  |  |
| 55732 | 7/8     |        |        |        | 22,5   | 100 |  |  |
| 55733 | 15/16   |        |        |        | 25,5   | 140 |  |  |
| 55734 | 1       | 65     | 10     | 54     | 26,5   | 140 |  |  |
| 55735 | 1.1/16  |        |        |        | 28,5   | 200 |  |  |

# 10

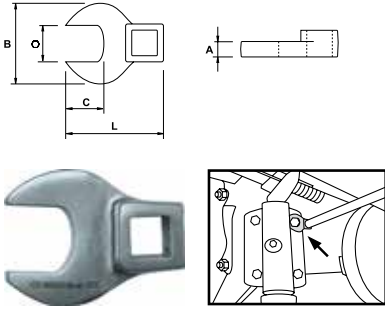
**APRIETE CONTROLADO**  
**CONTROLLED TIGHTENING**  
**SERRAGE CONTRÔLÉ**  
**KONTROLLIERTES ANZIEHEN**  
**CONTROLLO DI SERRAGGIO**  
**APERTO CONTROLADO**  
**КОНТРОЛИРУЕМАЯ ЗАТЯЖКА**



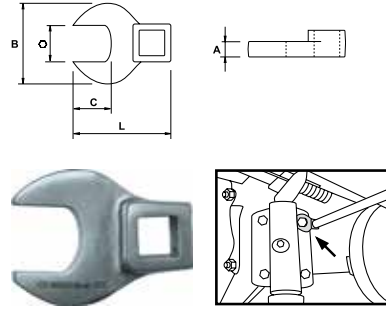
# EGATORK

■ 1/2"

■ MM



■ INCH



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | g   |    |   |
|-------|-------|--------|--------|--------|--------|-----|----|---|
| 57224 | 20    | 50     |        | 42     | 19     | 150 |    |   |
| 57225 | 21    |        |        | 42     | 19     |     |    |   |
| 57226 | 22    |        |        | 43     | 20     |     |    |   |
| 57227 | 23    | 55     |        | 45     | 21     |     |    |   |
| 57228 | 24    |        |        | 46     | 22     | 160 |    |   |
| 57229 | 25    |        | 12     | 47     | 23     |     |    |   |
| 57230 | 26    | 60     |        | 49     | 24     | 185 |    |   |
| 57231 | 27    |        |        | 50     | 25     | 190 |    |   |
| 57232 | 28    | 65     |        | 50     | 26     | 200 |    |   |
| 57233 | 29    |        |        | 55     | 27     |     |    |   |
| 57234 | 30    |        |        | 55     | 27     |     |    |   |
| 57235 | 31    | 70     |        | 60     | 29     | 220 |    |   |
| 57236 | 32    |        |        | 60     | 30     | 230 |    |   |
| 57237 | 33    |        |        | 65     | 31     | 250 | 10 | ● |
| 57238 | 34    |        |        | 65     | 32     | 260 |    |   |
| 57239 | 35    | 75     |        | 70     | 34     | 270 |    |   |
| 57240 | 36    |        |        | 70     | 34     |     |    |   |
| 57241 | 37    |        |        | 70     | 35     |     |    |   |
| 57242 | 38    | 80     |        | 75     | 36     | 280 |    |   |
| 57243 | 39    |        | 14     | 75     | 37     | 290 |    |   |
| 57244 | 40    |        |        | 75     | 38     | 300 |    |   |
| 57245 | 41    | 85     |        | 80     | 39     | 320 |    |   |
| 57246 | 42    |        |        | 80     | 40     |     |    |   |
| 57247 | 43    |        |        | 85     | 41     | 330 |    |   |
| 57248 | 44    | 90     |        | 85     | 42     | 340 |    |   |
| 57249 | 45    |        |        | 90     | 43     | 360 |    |   |
| 57250 | 46    | 95     | 15     | 90     | 44     | 380 |    |   |

| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | g   |    |   |
|-------|---------|--------|--------|--------|--------|-----|----|---|
| 57251 | 15/16   | 55     |        | 45     | 21     | 160 |    |   |
| 57252 | 1       | 60     |        | 47     | 23     |     |    |   |
| 57253 | 1.1/16  |        | 12     | 50     | 25     | 190 |    |   |
| 57254 | 1.1/8   | 65     |        | 50     | 26     | 200 |    |   |
| 57255 | 1.3/16  |        |        | 60     | 28     | 210 |    |   |
| 57256 | 1.1/4   | 70     |        | 60     | 30     | 230 |    |   |
| 57257 | 1.5/16  |        |        | 65     | 31     | 250 |    |   |
| 57258 | 1.3/8   | 75     |        | 70     | 33     | 260 |    |   |
| 57259 | 1.7/16  |        |        | 70     | 34     | 270 |    |   |
| 57260 | 1.1/2   | 80     | 14     | 75     | 36     | 280 |    |   |
| 57261 | 1.9/16  |        |        | 75     | 37     | 290 |    |   |
| 57262 | 1.5/8   | 85     |        | 80     | 39     | 320 |    |   |
| 57263 | 1.11/16 |        |        | 80     | 41     | 330 |    |   |
| 57264 | 1.3/4   | 90     |        | 84     | 42     | 340 | 10 | ● |
| 57265 | 1.13/16 |        |        | 84     | 44     | 380 |    |   |
| 57266 | 1.7/8   | 95     |        | 90     | 45     | 400 |    |   |
| 57267 | 1.15/16 |        |        | 90     | 46     | 430 |    |   |
| 57268 | 2       |        |        | 95     | 49     | 460 |    |   |
| 57269 | 2.1/16  |        |        | 95     | 49     | 480 |    |   |
| 57270 | 2.1/8   | 100    |        | 100    | 50     | 500 |    |   |
| 57271 | 2.3/16  |        | 15     | 100    | 50     | 600 |    |   |
| 57272 | 2.1/4   | 105    |        | 105    | 55     | 650 |    |   |
| 57273 | 2.5/16  |        |        | 105    | 55     | 700 |    |   |
| 57274 | 2.3/8   |        |        | 105    | 55     |     |    |   |
| 57275 | 2.7/16  | 110    |        | 110    | 60     | 750 |    |   |
| 57276 | 2.1/2   |        |        | 110    | 60     | 850 |    |   |

• Posibilidad de suministrar con certificado de calibración externa ENAC / ENAC calibration certificate can be issued on demand / Possibilité de fournir avec le certificat d'étalonnage externe ENAC

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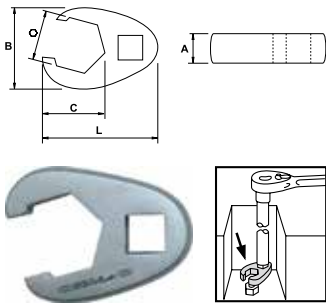


## EGATORK

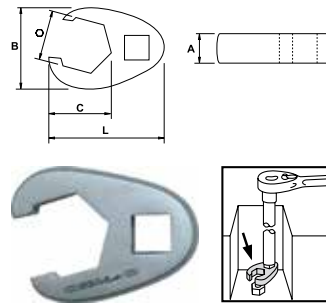
### LLAVE HEXAGONAL CROWFOOT / HEXAGONAL CROWFOOT WRENCH / CLÉ MÂLE CROWFOOT / SECHSKANT-EINSTECK-MAULSCHLÜSSEL / CHIAVE ESAGONALE CROWFOOT / PONTEIRA HEXAGONAL COM QUADRADO INTERIOR / РОЖКОВЫЙ ШЕСТИГРАННЫЙ КЛЮЧ С КВАДРАТОМ

3/8"

MM



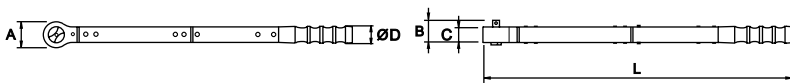
INCH



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | g   |    |   |
|-------|-------|--------|--------|--------|--------|-----|----|---|
| 55736 | 10    |        | 7,8    |        | 16     | 28  |    |   |
| 55737 | 11    | 38     |        | 31     | 18     | 35  |    |   |
| 55738 | 12    |        | 8      |        |        | 40  |    |   |
| 55739 | 13    |        |        |        |        | 41  |    |   |
| 55740 | 14    |        |        |        |        | 50  |    |   |
| 55741 | 15    | 41     | 9      | 33     | 21     | 56  | 10 | • |
| 55742 | 16    |        |        |        |        | 62  |    |   |
| 55743 | 17    | 45     | 10,5   | 36     | 24     | 80  |    |   |
| 55744 | 19    | 46     |        |        | 25     | 82  |    |   |
| 55745 | 21    | 50     | 11     | 40     | 28,5   | 100 |    |   |
| 55746 | 22    |        |        |        |        | 140 |    |   |
| 55747 | 24    |        |        |        |        | 200 |    |   |
| 55748 | 25    | 55     | 11,5   | 45     | 34     |     |    |   |
| 55749 | 27    |        |        |        |        |     |    |   |

| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | g   |    |   |
|-------|---------|--------|--------|--------|--------|-----|----|---|
| 55750 | 3/8     |        | 7,8    |        | 16     | 28  |    |   |
| 55751 | 7/16    | 38     |        | 31     | 18     | 40  |    |   |
| 55752 | 1/2     |        | 8      |        |        | 41  |    |   |
| 55753 | 9/16    | 41     | 9      | 33     | 21     | 56  | 10 | • |
| 55754 | 5/8     |        |        |        |        | 62  |    |   |
| 55755 | 11/16   | 46     | 10,5   | 36     | 24     | 80  |    |   |
| 55756 | 3/4     | 50     | 11     | 40     | 28,5   | 100 |    |   |
| 55757 | 13/16   |        |        |        |        | 140 |    |   |
| 55758 | 7/8     | 55     | 11,5   | 45     | 34     | 200 |    |   |
| 55759 | 15/16   |        |        |        |        |     |    |   |
| 55760 | 1       |        |        |        |        |     |    |   |
| 55761 | 1.1/16  |        |        |        |        |     |    |   |

### LLAVE DINAMOMÉTRICA DE PAR PREFIJADO ANALÓGICA / ANALOGIC PRESET TORQUE WRENCH / CLÉ DYNAMOMÉTRIQUE ANALOGIQUE À COUPLE PRÉSELECTIONNÉ / ANALOG VOREINGESTELLTE DREHMOMENTSCHLÜSSEL / CHIAVE DINAMOMETRICA CON COPPIA PREFISSATA ANALOGICA / CHAVE DINAMOMÉTRICA ANALÓGICA DE PAR PRE-FIXO / ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ С ПРЕДУСТАНОВКОЙ МОМЕНТА



| COD.  | AF inch | N.m      | Lb.ft   | Lb.in     | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | Kg  |   |
|-------|---------|----------|---------|-----------|--------|--------|--------|--------|--------|-----|---|
| 57535 | 1/4     | 2,5-12   | 1,8-8,8 | 20-105    | 185    | 30     | 31     | 16     |        | 0,4 |   |
| 57536 |         | 6-30     | 4,4-22  | 50-250    | 215    |        |        |        |        | 0,5 |   |
| 57537 | 3/8     | 25-125   | 20-90   | 220-1100  | 365    | 38     | 40     | 21     |        | 0,8 |   |
| 57538 | 1/2     | 65-335   | 50-250  | 575-2965  | 690    | 40     | 44     |        | 30     | 2,0 | 1 |
| 57539 | 3/4     | 160-800  | 120-600 | 1410-7080 | 1035   | 57     | 62     | 32     |        | 5,0 |   |
| 57540 | 1       | 200-1000 | 150-750 | 1770-8850 | 1260   |        | 77     |        |        | 6,0 |   |



12M

#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Par prefijado dentro de su rango de par a concretar por el cliente cuando se curse el pedido / Preset torque within its torque range to be specified by the customer when the order is placed / Couple présélectionné dans le rang de couple à préciser par le client au moment du traitement de la commande

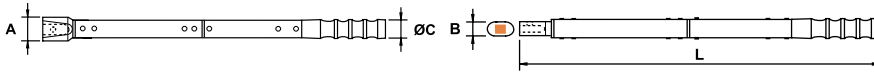
#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                |    |
|--------------------------------------------------------------------------------|----|
| Precisión / Accuracy / Précision                                               | 4% |
| Certificado de calibración / Calibration certificate / Certificat de calibrage | •  |
| Reversible / Reversible / Réversible                                           | •  |
| Dientes / Teeth / Dents                                                        | 45 |
| Estuche individual / Individual case / Étui individuel                         | •  |

12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

# EGAMASTER

**LLAVE DINAMOMÉTRICA CABEZAS INTERCAMBIABLES DE PAR PREFIJADO / INTERCHANGEABLE HEADS PRESET REVERSIBLE TORQUE WRENCH / CLÉ DYNAMOMÉTRIQUE TÊTES INTERCHANGEABLES DU COUPLE PRÉ-SÉLECTIONNÉES / AUSTAUSCHBARE VOREINGESTELLTE KÖPFE FÜR UMKEHRBARE DREHMOMENTSCHLÜSSEL / CHIAVE DINAMOMETRICA TESTE INTERCAMBIABILI CON SERRAGGIO PREFISSATO / CHAVE DINAMOMÉTRICA DE CABEÇAS INTERCAMBIÁVEIS E PAR PRE-FIXO / ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ СО СМЕННЫМИ ГОЛОВКАМИ С ПРЕДУСТАНОВКОЙ МОМЕНТА**



| COD.  | mm      | N.m      | Lb.ft    | Lb.in     | L (mm) | A (mm) | B (mm) | C (mm) | Kg  |   |
|-------|---------|----------|----------|-----------|--------|--------|--------|--------|-----|---|
| 58510 | 9 x 12  | 4-20     | 2,9-14,7 | 30-180    | 155    | 20     | 20     |        | 0,2 |   |
| 58511 |         | 15-85    | 12-60    | 130-750   | 310    |        |        | 29     | 0,5 |   |
| 58512 | 14 x 18 | 50-300   | 40-225   | 440-2655  | 690    | 32     | 25     |        | 1,3 | 1 |
| 58513 | 24 x 32 | 200-1000 | 150-750  | 1770-8850 | 1260   | 55     | 38     | 38     | 4,9 |   |



12M

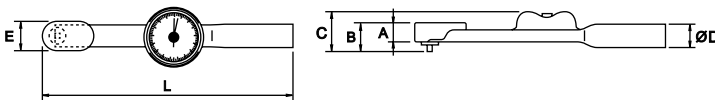
## CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Par prefijado dentro de su rango de par a concretar por el cliente cuando se curse el pedido / Preset torque within its torque range to be specified by the customer when the order is placed / Couple présélectionné dans le rang de couple à préciser par le client au moment du traitement de la commande

## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                |    |
|--------------------------------------------------------------------------------|----|
| Precisión / Accuracy / Précision                                               | 4% |
| Certificado de calibración / Calibration certificate / Certificat de calibrage | ●  |
| Reversible / Reversible / Réversible                                           | ●  |
| Estuche individual / Individual case / Étui individuel                         | ●  |

**LLAVES DINAMOMÉTRICAS DE DIAL ANALÓGICAS / ANALOG DIAL TORQUE WRENCHES / CLÉS DYNAMOMÉTRIQUES ANALOGIQUES À CADRAN / ANALOG WAHLDREHMOMENTSCHLÜSSEL / CHIAVI DINAMOMETRICHE CON DIAL ANALOGICO / CHAVES DINAMOMÉTRICAS DIAL ANALÓGICAS / СТРЕЛОЧНЫЕ ДИНАМОМЕТРИЧЕСКИЕ КЛЮЧИ**



| COD.  | AF inch | N.m    | Lb.ft  | Lb.in | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | Kg  |   | Precisión / Accuracy / Précision | Resolución / Resolution / Résolution |
|-------|---------|--------|--------|-------|--------|--------|--------|--------|--------|--------|-----|---|----------------------------------|--------------------------------------|
| 56930 | 1/4     | 0-2    |        | 0-18  |        |        | 28     | 50     |        |        |     |   |                                  | 0,05                                 |
| 56931 |         | 0-8    |        | 0-70  | 310    |        |        |        |        |        | 0,6 |   |                                  | 0,2                                  |
| 56932 |         | 0-20   |        | 0-175 |        |        |        |        |        |        |     |   |                                  | 0,5                                  |
| 56933 | 3/8     | 0-50   | 0-35   |       |        | 26     | 31     |        | 30     | 38     |     |   | ±3%                              | 1                                    |
| 56934 |         | 0-100  | 0-70   |       | 480    |        |        | 55     |        |        | 0,9 | 1 |                                  | 2                                    |
| 56935 | 1/2     | 0-200  | 0-150  |       |        |        | 45     |        |        |        | 1,0 |   |                                  | 5                                    |
| 56936 |         | 0-350  | 0-250  |       | 550    |        |        |        |        |        |     |   |                                  |                                      |
| 56937 | 3/4     | 0-800  | 0-600  |       | 1190   | 31     | 55     | 65     | 50     | 65     | 6,5 |   | 0 < N.m < 400 ±3%                | 20                                   |
| 56938 | 1       | 0-2000 | 0-1500 |       | 1620   |        | 60     | 70     |        |        | 9,0 |   | 400 < N.m < 2000 ±4%             | 50                                   |

12M

## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

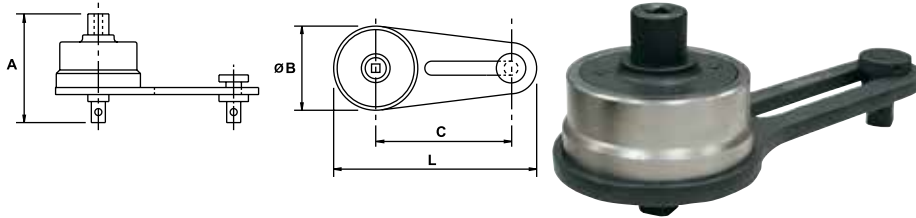
|                                                                                |   |
|--------------------------------------------------------------------------------|---|
| Certificado de calibración / Calibration certificate / Certificat de calibrage | ● |
| Estuche individual / Individual case / Étui individuel                         | ● |

• Posibilidad de suministrar con certificado de calibración externa ENAC / ENAC calibration certificate can be issued on demand / Possibilité de fournir avec le certificat d'étalonnage externe ENAC  
**12M** GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

Si no encuentra el artículo que necesita, consútenos en [consulta@egamaster.com](mailto:consulta@egamaster.com) o en [www.egamaster.com](http://www.egamaster.com)  
 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
 Si vous ne trouvez pas l'article que vous desirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)

# EGATORK

## MULTIPLICADORES DE PAR DE PRECISIÓN / PRECISION TORQUE MULTIPLIERS / MULTIPLICATEURS DE COUPLE DE PRÉCISION / PRÄZISION KRAFTVERVIELFÄLTIGER / MULTIPLICATORI DI COPPIA / MULTIPLICADOR DE BINÁRIO DE PRECISÃO / УСИЛИТЕЛЬ КРУТЯЩЕГО МОМЕНТА (МУЛЬТИПЛИКАТОР)



| COD.  | OUT (max.)<br>N.m | OUT (max.)<br>Lb.ft | IN (max.)<br>N.m | IN (max.)<br>Lb.ft | IN (inch) | OUT (inch) | L (mm) | A (mm) | Ø B (mm) | C (mm) | Kg   | Accessories                                     |
|-------|-------------------|---------------------|------------------|--------------------|-----------|------------|--------|--------|----------|--------|------|-------------------------------------------------|
| 63850 |                   |                     | 378              | 279                | 1/2       | 3/4        |        | 85     |          |        | 4,5  | 62954, 62963, 62968                             |
| 63851 | 1700              | 1250                |                  |                    | 3/4       |            | 310    | 90     | 115      | 165    | 5,0  | 62969                                           |
| 63852 |                   |                     | 75               | 55                 | 1/2       |            |        | 120    |          |        | 7,0  | 62954, 62957, 62958, 62961, 62962, 62963, 62968 |
| 63853 |                   |                     | 600              | 442                | 3/4       | 1          |        | 135    |          |        | 8,0  | 62969                                           |
| 63854 | 2700              | 2000                | 120              | 88                 | 1/2       |            |        | 165    |          |        | 11   | 62954, 62957, 62958, 62961, 62962, 62963, 62968 |
| 63855 |                   |                     | 750              | 553                | 3/4       |            | 365    | 150    | 135      | 260    | 8,5  | 62969                                           |
| 63856 | 3400              | 2500                | 150              | 110                | 1/2       |            |        | 175    |          |        | 11,5 | 62954, 62957, 62958, 62961, 62962, 62963, 62968 |
| 63857 |                   |                     | 1325             | 977                | 3/4       | 1 1/2      |        |        |          |        | 15   | 62969                                           |
| 63858 | 6000              | 4500                | 264              | 194                | 1/2       |            | 450    | 225    | 170      | 310    | 28   | 62954, 62957, 62958, 62961, 62962, 62963, 62968 |
| 63859 | 9500              | 7000                | 420              | 309                | 3/4       | 2 1/2      | 500    | 255    | 195      | 350    | 32   | 62969                                           |

12M

### Ejemplo:

Para obtener un par de salida de 1800Nm, se debe introducir un par de entrada:  
 Par de entrada = par de salida x ratio neto factor de multiplicación  
 $1800 \times 1/4.5 = 400\text{Nm}$

### Example:

To obtain an output torque of 1800Nm, user should apply an input torque of:  
 Input torque = output torque x net ratio multiplication factor  
 $1800 \times 1/4.5 = 400\text{Nm}$

### Exemple:

Pour obtenir un moment de sortie de 1800Nm, il faut introduire un moment d'entrée:  
 Force d'entrée = force de sortie x ratio net facteur multiplicateur  
 $1800 \times 1/4.5 = 400\text{Nm}$

| COD.  | Ratio multiplicación de par / Torque multiplication ratio / Ratio de multiplication de couple | Ratio neto / Net ratio / Ratio net | Rendimiento (%) / Accuracy (%) / Rendement (%) | Precisión / Accuracy / Précision | Sistema antirretorno / Non-return system / Système anti-retour |
|-------|-----------------------------------------------------------------------------------------------|------------------------------------|------------------------------------------------|----------------------------------|----------------------------------------------------------------|
| 63850 |                                                                                               | 4,5:1                              |                                                |                                  | -                                                              |
| 63851 | 5:1                                                                                           | 4,5:1                              |                                                |                                  | -                                                              |
| 63852 | 25:1                                                                                          | 22,5:1                             |                                                |                                  | ●                                                              |
| 63853 | 5:1                                                                                           | 4,5:1                              |                                                |                                  | -                                                              |
| 63854 | 25:1                                                                                          | 22,5:1                             | 90                                             | ±4                               | ●                                                              |
| 63855 | 5:1                                                                                           | 4,5:1                              |                                                |                                  | -                                                              |
| 63856 | 25:1                                                                                          | 22,5:1                             |                                                |                                  | ●                                                              |
| 63857 | 5:1                                                                                           | 4,5:1                              |                                                |                                  | -                                                              |
| 63858 | 25:1                                                                                          | 22,5:1                             |                                                |                                  | ●                                                              |
| 63859 |                                                                                               | 22,5:1                             |                                                |                                  | ●                                                              |

## CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

### DISPOSITIVO ANTIRRETORNO:

Los multiplicadores de par con una caja de engranajes de relación 22.5:1, disponen de un sistema antirretorno para eliminar la reacción originada en el apriete. Este dispositivo bloquea la tuerca, evitando que el multiplicador rebobine dado el alto ratio de multiplicación que soporta. Esto garantiza al usuario un uso cómodo, fácil y seguro. Todos los modelos disponen de una maleta para su protección y fácil transporte.

### NON-RETURN SYSTEM:

Torque multipliers with a 22.5:1 relation gearbox, include a non-return system to avoid the reaction induced in the grip. This system locks up the nut, not allowing the torque multiplier to rewind, due to the high ratio level supported. These guarantees the user a safe, easy and comfortable use. All models have a special case in order to be well protected and easy to transport.

### DISPOSITIF ANTI RETOUR:



Les multiplicateurs de couple ont une boîte d'engrenage de rapport 22.5:1, ils sont dotés d'un système anti-retour pour éliminer la réaction produite par le serrage. Ce dispositif bloque l'écrou, évitant que le multiplicateur rebobine à cause du haut ratio multiplicateur qu'il supporte. Ce qui confère à l'utilisateur une utilisation confortable, aisée et sûre. Tous les modèles sont présentés avec une malette pour leur protection et leur transport.



# EGAMASTER

## DESTORNILLADOR DINAMOMÉTRICO / TORQUE SCREWDRIVER / TOURNEVIS DYNAMOMÉTRIQUE / DREHMOMENT SCHRAUBENDREHER / CACCIAVITE DINAMOMETRICO / CHAVE DE FENDAS DINAMOMÉTRICA / ОТВЕРТКА СУСТАНОВКОЙ МОМЕНТА ЗАТЯГИВАНИЯ

### ELECTRÓNICO / ELECTRONIC / ÉLECTRONIQUE / ELEKTRONIK / ELETTRONICO / ELETRÔNICO / ЭЛЕКТРОННЫЙ

| COD.  |  | N.m   | Lb.in    | Kg.cm     | R.P.M. | L (mm) |  |
|-------|-----------------------------------------------------------------------------------|-------|----------|-----------|--------|--------|-------------------------------------------------------------------------------------|
| 66556 | 1/4                                                                               | 0,6-3 | 5,3-26,6 | 6,1-30,6  | 1600   | 300    | 830                                                                                 |
| 66557 |                                                                                   | 1,4-7 | 12,4-62  | 14,3-71,4 | 660    |        |                                                                                     |



CE | 12M

Es necesario el código 66549 para su uso / Code 66549 is required for use / Le code 66549 est requis pour l'utilisation

| COD.  | Resolución / Resolution / Résolution | Comunicación de datos al ordenador / Data communication to the computer / Transmission de données à l'ordinateur |
|-------|--------------------------------------|------------------------------------------------------------------------------------------------------------------|
| 66556 | 0,001Nm / 0,001 Lb.in                | ●                                                                                                                |
| 66557 |                                      |                                                                                                                  |

### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                |                                                                                 |
|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Fuente de luz / Light source / Source de lumière                               | ●                                                                               |
| Sistema de aviso / Warning system / Système d'alerte                           | Alarma luminosa y sonora / Audible and light alarm / Alarme lumineuse et sonore |
| Unidades / Units / Unités                                                      | N.m / Lb.in / Kgf.m / Kgf.cm                                                    |
| Reversible / Reversible / Réversible                                           | ●                                                                               |
| Trabajos programables / Programmable jobs / Séquences programmables            | ●                                                                               |
| Certificado de calibración / Calibration certificate / Certificat de calibrage | ●                                                                               |

### CONTROLADOR / CONTROLLER / CONTRÔLEUR / REGLER / UNITÀ DI CONTROLLO / CONTROLADOR / КОНТРОЛЛЕР

| COD.  | Descripción / Description / Description                                  | L x W x H (mm) |  |
|-------|--------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------|
| 66549 | Controlador programador / Programmer controller / Contrôleur programmeur | 185x157x242    | 3,8                                                                                  |



CE | 12M



• Posibilidad de suministrar con certificado de calibración externa ENAC / ENAC calibration certificate can be issued on demand / Possibilité de fournir avec le certificat d'étalonnage externe ENAC  
 12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

# 10

**APRIETE CONTROLADO**  
**CONTROLLED TIGHTENING**  
**SERRAGE CONTROLÉ**  
**KONTROLLIERTES ANZIEHEN**  
**CONTROLLO DI SERRAGGIO**  
**APERTO CONTROLADO**  
**КОНТРОЛИРУЕМАЯ ЗАТЯЖКА**



## EGATORAK

### DIGITAL / DIGITAL / DIGITAL / DIGITAAL / DIGITALE / DIGITAL / ЦИФРОВОЙ ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ

| COD.         |     | N.m   | cN.m   | Lb.in      | Kg.cm      | L (mm) |     |   |
|--------------|-----|-------|--------|------------|------------|--------|-----|---|
| <b>66578</b> | 1/4 | 0,2-4 | 20-400 | 1,77-35,39 | 2,04-40,82 | 200    | 650 | 1 |

12M



| COD.         | Precisión CW (a derechas) / Accuracy CW (clockwise) / Précision CW (sens horaire) | Precisión CCW (a izquierdas) / Accuracy CCW (counter clockwise) / Précision CCW (sens anti-horaire) | Resolución / Resolution / Résolution | Memoria de datos / Data memory / Memoire de données | Comunicación de datos al ordenador / Data communication to the computer / Transmission de données à l'ordinateur | Cable para la comunicación de datos / Cable for data communication / Transmission de données |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>66578</b> | ±2%                                                                               | ±3%                                                                                                 | 0.1Nm / 0.01 Lb.in / 0.01 Kg-cm      | 250                                                 | ●                                                                                                                | ●                                                                                            |

\* : Modo Track: Valor de torsión actual - Modo Peak: Valor máximo de torsión / Track mode: Direct torque value - Peak mode: Max. torque Value / Mode Track: Valeur de torsion actuelle - Mode Peak: Valeur maximum de torsion

### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                                            |                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Certificado de calibración / Calibration certificate / Certificat de calibrage                                                                             | ●                                                                               |
| Pares prefijados / Preset Torque values / Paires Préétablies                                                                                               | 9                                                                               |
| Sistema de aviso / Warning system / Système d'alerte                                                                                                       | Alarma luminosa y sonora / Audible and light alarm / Alarme lumineuse et sonore |
| Modo de operación / Operation mode / Mode d'opération                                                                                                      | Peak/Track*                                                                     |
| Unidades de medida / Unit selection / Unités de mesure                                                                                                     | N.m / Lb.in / Kg.cm                                                             |
| Cd con los programas para la comunicación de datos / Cd with the programs for data communication / Cd avec les programmes pour la communication de données | ●                                                                               |
| Calibración vía web / Web calibration / Calibrage par l'intermédiaire de web                                                                               | 24 h                                                                            |
| Baterías / Batteries / Piles                                                                                                                               | AAA x 1                                                                         |
| Temperatura de trabajo / Working temperature / Température de travail                                                                                      | -10 °C - 60 °C                                                                  |
| Temperatura de almacenamiento / Storage temperature / Température de stockage                                                                              | -20 °C - 70 °C                                                                  |

### ANALÓGICO / ANALOGIC / ANALOGIQUE / ANALOG / ANALOGICO / ANALÓGICO / АНАЛОГОВЫЙ

| COD.         |     | N.m | L (mm) |     |   |
|--------------|-----|-----|--------|-----|---|
| <b>66873</b> | 1/4 | 1-4 | 180    | 215 | 1 |

12M



### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                  |       |
|----------------------------------|-------|
| Precisión / Accuracy / Précision | +/-6% |
|----------------------------------|-------|

| COD.         |     |   |
|--------------|-----|---|
| <b>66845</b> | 550 | 1 |

12M

| PCS. | Descripción / Description / Description | L (mm)                   |
|------|-----------------------------------------|--------------------------|
| 1    | Destornillador / Screwdriver            | Cod. 66873  180          |
| 5    | Puntas / Bits                           | 3 - 4 - 5 - 6 - 8 mm     |
|      |                                         | 3 - 4 - 5,5 - 6,5 - 7 mm |
| 4    |                                         | PH0 - PH1 - PH2 - PH3    |
|      |                                         | S1 - S2 - S3 - S4        |



12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

# EGAMASTER

| PCS. | Descripción / Description /<br>Description |                                   | L (mm) |
|------|--------------------------------------------|-----------------------------------|--------|
| 2    | Puntas / Bits                              | PZ1 - PZ2                         | 25     |
| 6    |                                            | T10 - T15 - T20 - T25 - T30 - T40 |        |
| 1    | Adaptador / Adapter                        | 1/4", 60 mm                       | 60     |
|      |                                            | 1/4", 25 mm                       | 25     |

| COD.  | AF<br>inch | N.m   | Lb.in | L (mm) | g   |   |
|-------|------------|-------|-------|--------|-----|---|
| 66579 | 1/4        | 0,4-2 | -     | 135    | 130 | 1 |
| 66594 |            | -     | 4-20  |        |     |   |



12M

### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                |     |
|--------------------------------------------------------------------------------|-----|
| Precisión / Accuracy / Précision                                               | ±6% |
| Certificado de calibración / Calibration certificate / Certificat de calibrage | ●   |
| Estuche individual / Individual case / Étui individuel                         | ●   |

| COD.  | AF<br>inch | N.m | Lb.in | L (mm) | g   |   |
|-------|------------|-----|-------|--------|-----|---|
| 66580 | 1/4        | 1-5 | -     | 160    | 130 | 1 |
| 66595 |            | -   | 10-50 |        |     |   |



12M

### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

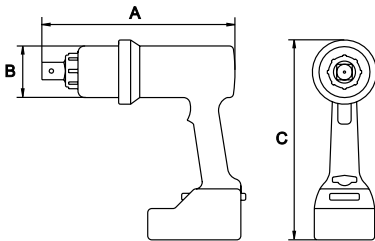
|                                                                                |     |
|--------------------------------------------------------------------------------|-----|
| Precisión / Accuracy / Précision                                               | ±6% |
| Certificado de calibración / Calibration certificate / Certificat de calibrage | ●   |
| Estuche individual / Individual case / Étui individuel                         | ●   |

# EGAMASTER

## ART IN INNOVATION

# EGATORAK

## LLAVE DINAMOMÉTRICA A BATERÍA / BATTERY TORQUE WRENCH / CLÉ DYNAMOMÉTRIQUE À BATTERIE / BATTERIE-DREHMOMENTSCHLÜSSEL / CHIAVE DINAMOMETRICA A BATTERIA / CHAVE DINAMOMÉTRICA A BATERIA / АККУМУЛЯТОРНЫЙ ДИНАМОМЕТРИЧЕСКИЙ ВИНТОВЕРТ



| COD.  | AF<br>Inch | N.m       | A (mm) | B (mm) | C (mm) | Kg  |   |
|-------|------------|-----------|--------|--------|--------|-----|---|
| 58875 | 3/4        | 165-670   | 225    | 65     | 265    | 4,5 | 1 |
| 58876 | 1          | 340-1350  | 280    | 75     |        | 6,5 |   |
| 58877 |            | 670-2700  | 295    | 80     |        | 7,0 |   |
| 58878 |            | 1050-4050 | 355    | 95     |        | 10  |   |
| 58901 | 1.1/2      | 1626-8133 | 380    | 130    | 290    | 20  |   |

12M | Batería incluida, cargador no incluido / Battery included, charger not included / Batterie incluse, chargeur non inclus

Asegura el par de apriete deseado durante toda la carga de la batería / It ensures the desired tightening torque during the entire charge of the battery / Assure le couple de serrage souhaité durant toute la durée de la batterie



### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                |                                      |
|--------------------------------------------------------------------------------|--------------------------------------|
| Certificado de calibración / Calibration certificate / Certificat de calibrage | ●                                    |
| Reversible / Reversible / Réversible                                           | ●                                    |
| Brazo de reacción / Reaction arm / Bras de réaction                            | ●                                    |
| Unidades de medida / Unit selection / Unités de mesure                         | N.m / Lb.ft                          |
| Baterías / Batteries / Piles                                                   | Li-ion 18V                           |
| Tiempo de carga / Charge time / Temps de recharge                              | 60 minutos / 60 minutes / 60 minutes |

### ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ

#### BATERÍA / BATTERY / BATTERIE / BATTERIE / BATTERIA / BATERIA / БАТАРЕЯ

| COD.  | V              |
|-------|----------------|
| 58879 | 18V 8.0Ah LIHD |



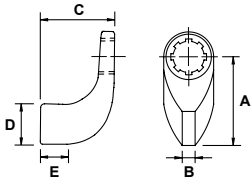
#### CARGADOR / CHARGER / CHARGEUR / LADEGERÄT / CARICABATTERIE / CARREGADOR / ЗАРЯДНОЕ УСТРОЙСТВО

| COD.  | Descripción / Description / Description                                                |
|-------|----------------------------------------------------------------------------------------|
| 58880 | Cargador rápido USA / U.S. fast charger / Chargeur rapide USA                          |
| 58881 | Cargador estándar USA / U.S. standard charger / Chargeur standard USA                  |
| 58882 | Cargador estándar rápido UK / U.K. standard fast charger / Chargeur standard rapide UK |
| 58883 | Cargador rápido Australia / Australia fast charger / Chargeur rapide Australie         |
| 58884 | Cargador estándar Australia / Australia standard charger / Chargeur standard Australie |
| 58885 | Cargador rápido Europa / EU fast charger / Chargeur rapide Europe                      |
| 58886 | Cargador estándar Europa / EU standard charger / Chargeur standard Europe              |



# EGAMASTER

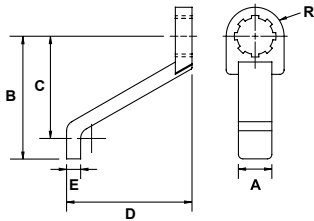
## BRAZO REACCIÓN STANDARD / STANDARD REACTION ARM / BRAS DE RÉACTION STANDARD / STANDARD REAKTIONSARM / BRACCIO REAZIONE STANDARD / BRAÇO REAÇÃO STANDARD / СТАНДАРТНЫЙ КРОНШТЕЙН-ФИКСАТОР



| COD.  | Válido para / Valid for / Valable pour | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) |
|-------|----------------------------------------|--------|--------|--------|--------|--------|
| 59026 | 58875, 58876                           | 110    | 16     | 90     | 44     | 25     |
| 59027 | 58877, 58878                           | 135    | 21     | 100    | 50     |        |
| 59028 | 58901                                  | 200    | 32     | 185    | 75     | 38     |



## BRAZO REACCIÓN EN S / S REACTION ARM / BRAS DE RÉACTION EN S / S REAKTIONSARM / BRACCIO REAZIONE A S / BRAÇO REAÇÃO EM S / S-ОБРАЗНЫЙ КРОНШТЕЙН-ФИКСАТОР

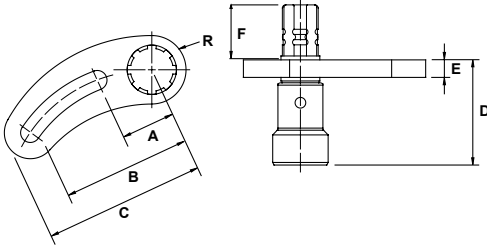


| COD.  | Válido para / Valid for / Valable pour | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | R (mm) |
|-------|----------------------------------------|--------|--------|--------|--------|--------|--------|
| 59029 | 58875, 58876                           | 38     | 140    | 110    | 145    | 16     | 32     |
| 59030 | 58877, 58878                           | 50     | 165    | 130    | 150    | 20     | 44     |
| 59031 | 58901                                  | 55     | 200    | 125    | 210    | 25     | 50     |



# EGATORK

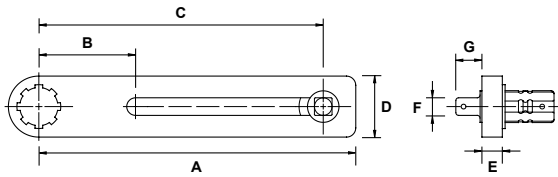
**BRAZO REACCIÓN EN VASO / SOCKET REACTION ARM / BRAS DE RÉACTION EN DOUILLE / STECKSCHLÜSSEL REAKTIONARM / BRACCIO REAZIONE A BUSSOLA / BRAÇO REAÇÃO EM CAIXA / КРОНШТЕЙН-ФИКСАТОР С ПАЗОМ**



| COD.  | Válido para / Valid for / Valable pour | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | R (mm) |
|-------|----------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| 59032 | 58875, 58876                           | 55     | 140    | 165    | 110    | 19     | 55     | 35     |
| 59033 | 58877, 58878                           | 55     | 140    | 170    | 115    | 25     | 48     | 38     |



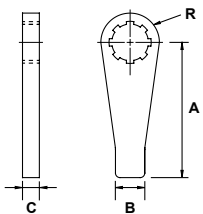
**BRAZO REACCIÓN LARGO EN VASO / SOCKET LONG REACTION ARM / BRAS DE RÉACTION LONG EN DOUILLE / STECKSCHLÜSSEL LANGER REAKTIONARM / BRACCIO REAZIONE LUNGO A BUSSOLA / BRAÇO REAÇÃO COMPRIDO EM CAIXA / ДЛИННЫЙ КРОНШТЕЙН-ФИКСАТОР С ПАЗОМ**



| COD.  | Válido para / Valid for / Valable pour | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (inch) | G (mm) |
|-------|----------------------------------------|--------|--------|--------|--------|--------|----------|--------|
| 59034 | 58875, 58876                           | 330    | 100    | 300    | 65     | 19     | 3/4      | 23     |
| 59035 | 58877, 58878                           | 350    | 100    | 300    | 75     | 25     | 1        | 32     |
| 59036 | 58901                                  | 360    | 115    | 300    | 115    | 32     | 1.1/2    | 37     |



**BRAZO REACCIÓN RECTO / STRAIGH REACTION ARM / BRAS DE RÉACTION DROIT / GERADE REAKTIONARM / BRACCIO REAZIONE DIRITTO / BRAÇO REAÇÃO RETO / ПРЯМОЙ КРОНШТЕЙН-ФИКСАТОР**

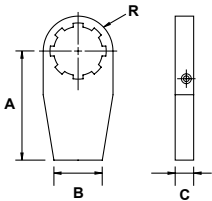


| COD.  | Válido para / Valid for / Valable pour | A (mm) | B (mm) | C (mm) | R (mm) |
|-------|----------------------------------------|--------|--------|--------|--------|
| 59037 | 58875, 58876                           | 150    | 32     | 16     | 32     |
| 59038 | 58877, 58878                           | 200    | 50     | 19     | 37     |
| 59039 | 58901                                  | 250    | 55     | 32     | 50     |



# EGAMASTER

## BRAZO REACCIÓN PARA SOLDADURA / REACTION ARM FOR WELDING / BRAS DE RÉACTION POUR LE SOUDAGE / REAKTIONSARM ZUM SCHWEIßEN / BRACCIO REAZIONE PER SALDATURA / BRAÇO REAÇÃO PARA SOLDADURA / КРОНШТЕЙН-ФИКСАТОР ДЛЯ ПАЙКИ



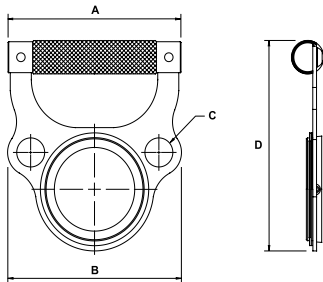
| COD.  | Válido para / Valid for / Valable pour | A (mm) | B (mm) | C (mm) | R (mm) |
|-------|----------------------------------------|--------|--------|--------|--------|
| 59053 | 58875                                  | 115    | 38     | 19     | 32     |
| 59054 | 58876, 58877, 58878                    |        | 50     | 25     | 36     |
| 59055 | 58901                                  |        | 55     | 32     | 50     |

### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Los brazos de reacción para soldadura se proporcionan sin tratar térmicamente. Se requiere tratamiento térmico final (material Aisi 4140 / DIN17225 a 38-42 HRC / ISO 42CrMo4) / Weld disk are not heat treated as provided. Final heat treating is required (material Aisi 4140/DIN17225 to 38-42 HRC / ISO 42CrMo4) / Les bras de réaction pour le soudage sont fournis non traités thermiquement. Traitement thermique final requis (matériel Aisi 4140 / DIN17225 a 38-42 HRC / ISO 42CrMo4)



## MANGO / HANDLE / MANCHE / GRIFF / MANICO / PUNHO / РУКОЯТКА



| COD.  | Válido para / Valid for / Valable pour | A (mm) | B (mm) | C (mm) | D (mm) |
|-------|----------------------------------------|--------|--------|--------|--------|
| 59040 | 58875                                  | 155    | 155    | 25     | 180    |
| 59041 | 58876, 58878                           |        |        |        |        |
| 59042 | 58877                                  |        |        |        |        |



## SISTEMA DOBLE INTERRUPTOR / DOUBLE SWITCH SYSTEM / SYSTÈME À DOUBLE INTERRUPTEUR / DOPPELSCHALTSYSTEM / SISTEMA DOPPIO INTERRUPTORE / SISTEMA DUPLO INTERRUPTOR / СИСТЕМА ДВОЙНОГО ВЫКЛЮЧАТЕЛЯ

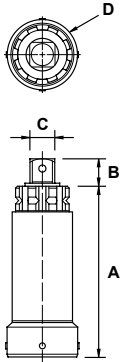
| COD.  | Válido para / Valid for / Valable pour |
|-------|----------------------------------------|
| 59043 | 58875, 58876, 58877, 58878, 58901      |



• Posibilidad de suministrar con certificado de calibración externa ENAC / ENAC calibration certificate can be issued on demand / Possibilité de fournir avec le certificat d'étalonnage externe ENAC

# EGATORK

## EXTENSIONES / EXTENSIONS / RALLONGES / VERLÄNGERUNGEN / ESTENSIONE / EXTENSÕES / УДЛИНИТЕЛИ



| COD.  | Válido para / Valid for / Valable pour | A (mm) | B (mm) | C (mm) | D (mm) |
|-------|----------------------------------------|--------|--------|--------|--------|
| 59045 |                                        | 175    |        |        |        |
| 59046 | 58875, 58876                           | 330    | 24     | 3/4    | 55     |
| 59047 |                                        | 480    |        |        |        |
| 59048 |                                        | 180    |        |        |        |
| 59049 | 58877, 58878                           | 330    | 27     | 1      | 75     |
| 59050 |                                        | 480    |        |        |        |
| 59051 | 58901                                  | 190    | 41     | 1.1/2  | 100    |
| 59052 |                                        | 340    |        |        |        |



## ATORNILLADOR DINAMOMÉTRICO / TORQUE NUTRUNNER / VISSEUSE DYNAMOMÉTRIQUE / DREHMOMENTSCHRAUBER / GIRAVITE DINAMOMETRICO / APARAFUSADORA DINAMOMÉTRICA / ОТВЕРТКА С УСТАНОВКОЙ МОМЕНТА ЗАТЯГИВАНИЯ

### ACODADO A BATERIA / BATTERY ANGLE TYPE / D'ANGLE À BATTERIE / BATTERIEWINKELTYP / ANGOLARE A BATTERIA / ANGULAR A BATERIA / ИЗОГНУТОЙ ФОРМЫ, С АККУМУЛЯТОРОМ

| COD.  | AF<br>inch | N.m  | Lb.in    | Lb.ft  | Kg.cm    | V  | Bat.   | R.P.M. | L (mm) | Kg  | Box |
|-------|------------|------|----------|--------|----------|----|--------|--------|--------|-----|-----|
| 58916 | 3/8        | 4-15 | 35,4-133 | 3-11,1 | 40,8-153 | 18 | Li-Ion | 450    | 430    | 1,7 | 1   |

12M | ISO 5393

Batería y cargador incluido, programador no incluido / Battery and charger included, programmer not included / Batterie et chargeur incluse, programmeur non inclus



### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                         |                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| CmK                                                                                                                     | >1,67 (+/-10%)                                                                  |
| Reversible / Reversible / Réversible                                                                                    | ●                                                                               |
| Sistema de aviso / Warning system / Système d'alerte                                                                    | Alarma luminosa y sonora / Audible and light alarm / Alarme lumineuse et sonore |
| Indicador de carga / Charging indicator / Indicateur de charge                                                          | ●                                                                               |
| Luces indicadoras de par correcto / Correct tightening torque indicator lights / Indicateurs lumineux de couple correct | ●                                                                               |
| Autonomía / Autonomy / Autonomie                                                                                        | > 250 aprietes / > 250 tighten / > 250 serrer                                   |
| Tiempo de carga / Charge time / Temps de recharge                                                                       | 1 h                                                                             |
| Batería / Battery / Batterie                                                                                            | 18V 2,5Ah                                                                       |
| Cargador / Charger / Chargeur                                                                                           | 100-240V / 50-60Hz / 18V                                                        |
| Certificado de calibración / Calibration certificate / Certificat de calibrage                                          | ●                                                                               |



10

**APRIETE CONTROLADO**  
**CONTROLLED TIGHTENING**  
**SERRAGE CONTROLÉ**  
**KONTROLLIERTES ANZIEHEN**  
**CONTROLLO DI SERRAGGIO**  
**APERTO CONTROLADO**  
**КОНТРОЛИРУЕМАЯ ЗАТЯЖКА**



# EGAMASTER

| COD.         | AF inch | N.m   | Lb.in   | Lb.ft     | Kg.cm   | V  | Bat.   | R.P.M. | L (mm) | Kg  | Icon |
|--------------|---------|-------|---------|-----------|---------|----|--------|--------|--------|-----|------|
| <b>58917</b> | 3/8     | 15-35 | 133-310 | 11,1-25,8 | 153-357 | 18 | Li-Ion | 200    | 515    | 2,2 | 1    |

12M | ISO 5393

Batería y cargador incluido, programador no incluido / Battery and charger included, programmer not included / Batterie et chargeur incluse, programmeur non inclus



| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                                                |                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| CmK                                                                                                                     | >1,67 (+/-10%)                                                                  |
| Reversible / Reversible / Réversible                                                                                    | ●                                                                               |
| Sistema de aviso / Warning system / Système d'alerte                                                                    | Alarma luminosa y sonora / Audible and light alarm / Alarme lumineuse et sonore |
| Indicador de carga / Charging indicator / Indicateur de charge                                                          | ●                                                                               |
| Luces indicadoras de par correcto / Correct tightening torque indicator lights / Indicateurs lumineux de couple correct | ●                                                                               |
| Autonomía / Autonomy / Autonomie                                                                                        | > 250 aprietes / > 250 tighten / > 250 serrer                                   |
| Tiempo de carga / Charge time / Temps de recharge                                                                       | 1 h                                                                             |
| Batería / Battery / Batterie                                                                                            | 18V 2,5Ah                                                                       |
| Cargador / Charger / Chargeur                                                                                           | 100-240V / 50-60Hz / 18V                                                        |
| Certificado de calibración / Calibration certificate / Certificat de calibrage                                          | ●                                                                               |

## ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ

| COD.         | Descripción / Description / Description |
|--------------|-----------------------------------------|
| <b>58921</b> | Programador / Programmer / Programmeur  |

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES           |   |
|------------------------------------------------------------------------------------|---|
| Ajuste del modo de operación / Operation mode adjust / Ajustement mode d'opération | ● |
| Ajuste sistema de aviso / Warning system adjustment / Adjustment système d'alerte  | ● |
| Contador OK / NO OK / Counter OK / NO OK / Compteur OK / NO OK                     | ● |



## REPUESTOS / SPARE PARTS / RECHANGES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ

| COD.         | V         | Descripción / Description / Description |
|--------------|-----------|-----------------------------------------|
| <b>58773</b> | 18V 2,5Ah | Batería / Battery / Batterie            |



| COD.         | V                        | Descripción / Description / Description |
|--------------|--------------------------|-----------------------------------------|
| <b>58774</b> | 100-240V / 50-60Hz / 18V | Cargador / Charger / Chargeur           |



## ACODADO NEUMÁTICO / PNEUMATIC ANGLE TYPE / D'ANGLE PNEUMATIQUE / PNEUMATISCHER WINKELTYP / ANGOLARE PNEUMATICO / ANGULAR PNEUMÁTICO / ИЗОГНУТОЙ ФОРМЫ, ПНЕВМАТИЧЕСКИЙ

| COD.         | AF inch | N.m     | Lb.in     | Lb.ft   | Kg.cm     | R.P.M. | L (mm) | Kg  |
|--------------|---------|---------|-----------|---------|-----------|--------|--------|-----|
| <b>58902</b> | 3/8"    | 1,2-2,4 | 10,6-21,2 | 0,9-1,8 | 12,2-24,5 | 1450   | 340    | 1,2 |
| <b>58903</b> |         | 2,2-4,3 | 19,5-38,1 | 1,6-3,2 | 22,4-43,9 | 800    |        |     |
| <b>58913</b> |         | 4-10    | 35,4-88,5 | 3-7,4   | 40,8-102  | 340    | 350    | 1,3 |

12M | ISO 5393



• Posibilidad de suministrar con certificado de calibración externa ENAC / ENAC calibration certificate can be issued on demand / Possibilité de fournir avec le certificat d'étalonnage externe ENAC  
**12M** GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

Si no encuentra el artículo que necesita, consútenos en [consulta@egamaster.com](mailto:consulta@egamaster.com) o en [www.egamaster.com](http://www.egamaster.com)  
 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
 Si vous ne trouvez pas l'article que vous desirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)

**EGAMASTER**  
 ART IN INNOVATION

541

# EGATORAK

## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                |                       |
|--------------------------------------------------------------------------------|-----------------------|
| CmK                                                                            | >1,33 (+/-10%)        |
| Consumo de aire / Air consumption / Consommation d'air                         | 198 LPM (7 CFM)       |
| Presión de trabajo / Working pressure / Pression de travail                    | 6,3 bar / 90 PSI      |
| Vibración / Vibration / Vibration                                              | <2,5 m/s <sup>2</sup> |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore      | 88,5 dBA              |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore     | 78 dBA                |
| Entrada de aire / Air inlet / Entrée d'air                                     | 1/4"                  |
| Reversible / Reversible / Réversible                                           | ●                     |
| Certificado de calibración / Calibration certificate / Certificat de calibrage | ●                     |

| COD.         | AF<br>inch | N.m   | Lb.in    | Lb.ft     | Kg.cm   | R.P.M. | L (mm) | Kg  |
|--------------|------------|-------|----------|-----------|---------|--------|--------|-----|
| <b>58914</b> | 1/2"       | 10-40 | 88,5-354 | 7,4-29,5  | 102-408 | 280    | 520    | 2,4 |
| <b>58922</b> |            | 35-70 | 310-620  | 25,8-51,6 | 357-714 | 130    |        |     |

12M | ISO 5393



## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                |                       |
|--------------------------------------------------------------------------------|-----------------------|
| CmK                                                                            | >1,33 (+/-10%)        |
| Consumo de aire / Air consumption / Consommation d'air                         | 283 LPM (10 CFM)      |
| Presión de trabajo / Working pressure / Pression de travail                    | 5,9 bar / 85 PSI      |
| Vibración / Vibration / Vibration                                              | <2,5 m/s <sup>2</sup> |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore      | 93 dBA                |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore     | 82 dBA                |
| Entrada de aire / Air inlet / Entrée d'air                                     | 1/4"                  |
| Reversible / Reversible / Réversible                                           | ●                     |
| Certificado de calibración / Calibration certificate / Certificat de calibrage | ●                     |

## TIPO PISTOLA NEUMÁTICO / PNEUMATIC PISTOL TYPE / TYPE PISTOLET PNEUMATIQUE / PNEUMATISCHE PISTOLETYP / TIPO PISTOLA PNEUMATICO / TIPO PISTOLA PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ, ПИСТОЛЕТНОГО ТИПА

| COD.         | AF<br>inch | N.m  | Lb.in    | Lb.ft    | Kg.cm  | R.P.M. | L x W x H (mm) | Kg  |
|--------------|------------|------|----------|----------|--------|--------|----------------|-----|
| <b>58869</b> | 3/8        | 5-28 | 44,3-248 | 3,7-20,7 | 51-286 | 250    | 235x39x190     | 1,2 |

12M | ISO 5393



## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                |                        |
|--------------------------------------------------------------------------------|------------------------|
| Precisión / Accuracy / Précision                                               | +/- 3%                 |
| Consumo de aire / Air consumption / Consommation d'air                         | 550 LPM (17,7 CFM)     |
| Presión de trabajo / Working pressure / Pression de travail                    | 6,3 bar / 90 PSI       |
| Nivel de vibración / Vibration level / Niveau de vibration                     | < 2,5 m/s <sup>2</sup> |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore      | 92,84 dBA              |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore     | 81,84 dBA              |
| Entrada de aire / Air inlet / Entrée d'air                                     | 1/4"                   |
| Reversible / Reversible / Réversible                                           | ●                      |
| Certificado de calibración / Calibration certificate / Certificat de calibrage | ●                      |

# EGAMASTER

## ■ CALIBRACIÓN / CALIBRATION / CALIBRAGE / KALIBRIERUNG / CALIBRAZIONE / CALIBRAÇÃO / КАЛИБРОВКА

### ■ MEDIDORES DE PAR CON PANTALLA LCD / TORQUE TESTER SQ / MESUREUR DE COUPLE AVEC ÉCRAN LCD / DREHMOMENTPRÜFGRÄT LCD / MISURATORE DI COPPIA CON SCHERMO LCD / MEDIDORES DE PAR COM ECRÃ LCD / КАЛИБРАТОР ДИНАМОМЕТРИЧЕСКИЙ

| COD.  | AF<br>inch | N.m   | Lb.ft   | Lb.in  | Kg.cm  |   | Kg  |
|-------|------------|-------|---------|--------|--------|---|-----|
| 69200 | 1/4        | 0,5-5 | 0,4-3,7 | 4,4-44 | 5,1-51 |   | 0,7 |
| 69201 | 3/8        | 5-50  | 3,7-37  | 44-442 | 51-510 | 1 | 1,1 |

12M



| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                             |                                                                                         |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| L x W x H                                                                                            | 410 x 320 x 17                                                                          |
| Precisión / Accuracy / Précision                                                                     | +/- 0,5% (CW/CCW)                                                                       |
| Certificado de calibración / Calibration certificate / Certificat de calibrage                       | ●                                                                                       |
| Pares prefijados / Preset Torque values / Paires Préétablies                                         | 10                                                                                      |
| Sistema de aviso / Warning system / Système d'alerte                                                 | Alarma luminosa / Light alarm / Alarme lumineuse                                        |
| Modo de operación / Operation mode / Mode d'opération                                                | 1st / Peak hold / Track                                                                 |
| Temperatura de almacenamiento / Storage temperature / Température de stockage                        | -20 °C ~ 70 °C                                                                          |
| Pantalla / Screen / Écran                                                                            | 4 dígitos / 4 digits / 4 chiffres                                                       |
| Memoria de datos / Data memory / Mémoire de données                                                  | -                                                                                       |
| Diseñado para llaves dinamométricas / Designed for torque wrenches / Conçu pour clés dynamométriques | Dial - Resorte - Digital / Dial - Click - Digital / Lecture directe - Ressort - Digital |
| Salida USB / USB output / Sortie USB                                                                 | ●                                                                                       |
| Apagado automático / Automatic power off / Extinction automatique                                    | ●                                                                                       |
| Software CD                                                                                          | ●                                                                                       |

| COD.  | AF<br>inch | AF<br>mm | N.m    | Lb.ft  | Lb.in    | Kg.cm    |   | Kg  |
|-------|------------|----------|--------|--------|----------|----------|---|-----|
| 57650 | 1/2        | -        | 35-350 | 26-260 | 310-3100 | 357-3570 | 1 | 2,9 |

12M



| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                             |                                                                                         |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| L x W x H                                                                                            | 160 x 145 x 90                                                                          |
| Precisión / Accuracy / Précision                                                                     | +/-1% (CW)                                                                              |
| Certificado de calibración / Calibration certificate / Certificat de calibrage                       | ●                                                                                       |
| Pares prefijados / Preset Torque values / Paires Préétablies                                         | 10                                                                                      |
| Sistema de aviso / Warning system / Système d'alerte                                                 | Alarma luminosa / Light alarm / Alarme lumineuse                                        |
| Modo de operación / Operation mode / Mode d'opération                                                | 1st / Peak hold / Track                                                                 |
| Temperatura de trabajo / Working temperature / Température de travail                                | 5 °C ~ 40 °C                                                                            |
| Temperatura de almacenamiento / Storage temperature / Température de stockage                        | -20 °C ~ 70 °C                                                                          |
| Pantalla / Screen / Écran                                                                            | 4 dígitos / 4 digits / 4 chiffres                                                       |
| Diseñado para llaves dinamométricas / Designed for torque wrenches / Conçu pour clés dynamométriques | Dial - Resorte - Digital / Dial - Click - Digital / Lecture directe - Ressort - Digital |
| Salida USB / USB output / Sortie USB                                                                 | ●                                                                                       |
| Apagado automático / Automatic power off / Extinction automatique                                    | ●                                                                                       |
| Software CD                                                                                          | ●                                                                                       |

• Posibilidad de suministrar con certificado de calibración externa ENAC / ENAC calibration certificate can be issued on demand / Possibilité de fournir avec le certificat d'étalonnage externe ENAC  
 12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

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10

APRIETE CONTROLADO  
CONTROLLED TIGHTENING  
SERRAGE CONTRÔLÉ  
KONTROLLIERTES ANZIEHEN  
CONTROLLO DI SERRAGGIO  
APERTO CONTROLADO  
КОНТРОЛИРУЕМАЯ ЗАТЯЖКА



# EGATORK

| COD.  | AF mm | N.m      | Lb.ft    |   | Kg  |
|-------|-------|----------|----------|---|-----|
| 57651 | 27 *  | 100-1000 | 74-740   | 1 | 3,2 |
| 57652 |       | 200-2000 | 147-1475 |   | 3,5 |

12M

Accesorio opcional cod. 60508 (3/4"-hex. 27 mm) / *Optional accessory cod. 60508 (3/4"-hex. 27 mm)* / *Accessoire optionnel cod. 60508 (3/4"-hex. 27 mm)*



## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                      |                                                                                         |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| L x W x H                                                                                            | 160 x 170 x 90                                                                          |
| Precisión / Accuracy / Précision                                                                     | +/-1% (CW)                                                                              |
| Certificado de calibración / Calibration certificate / Certificat de calibrage                       | •                                                                                       |
| Pares prefijados / Preset Torque values / Paires Préétablies                                         | 10                                                                                      |
| Sistema de aviso / Warning system / Système d'alerte                                                 | Alarma luminosa / Light alarm / Alarme lumineuse                                        |
| Modo de operación / Operation mode / Mode d'opération                                                | 1st / Peak hold / Track                                                                 |
| Temperatura de trabajo / Working temperature / Température de travail                                | 5 °C ~ 40 °C                                                                            |
| Temperatura de almacenamiento / Storage temperature / Température de stockage                        | -20 °C ~ 70 °C                                                                          |
| Pantalla / Screen / Écran                                                                            | 4 dígitos / 4 digits / 4 chiffres                                                       |
| Diseñado para llaves dinamométricas / Designed for torque wrenches / Conçu pour clés dynamométriques | Dial - Resorte - Digital / Dial - Click - Digital / Lecture directe - Ressort - Digital |
| Salida USB / USB output / Sortie USB                                                                 | •                                                                                       |
| Apagado automático / Automatic power off / Extinction automatique                                    | •                                                                                       |
| Software CD                                                                                          | •                                                                                       |

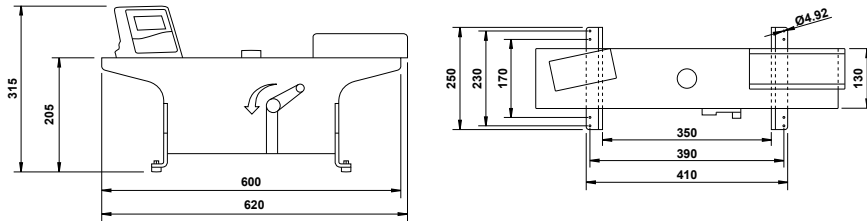
# EGA Master

## ART IN INNOVATION

12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

# EGAMASTER

MÁQUINAS DE CALIBRACIÓN / TORQUE CALIBRATION MACHINES / MACHINES DE CALIBRAGE / DREHMOMENT-KALIBRIERUNGSMASCHINEN / MACCHINE DI CALIBRAZIONE / MÁQUINAS DE CALIBRAÇÃO / КАЛИБРОВОЧНЫЕ МАШИНЫ



| COD.  | AF inch | AF mm | N.m   | Lb.ft   | Lb.in  | Kg.cm  | L x W x H (mm) | Incluye / Includes / Inclus | Kg | Box |
|-------|---------|-------|-------|---------|--------|--------|----------------|-----------------------------|----|-----|
| 57666 | 1/4     | -     | 0,5-5 | 0,4-3,7 | 4,4-44 | 5,1-51 | 620x265x315    | 69200                       | 15 | 1   |
| 57665 | 3/8     | -     | 5-50  | 3,7-37  | 44-442 | 51-510 |                | 69201                       |    |     |

12M

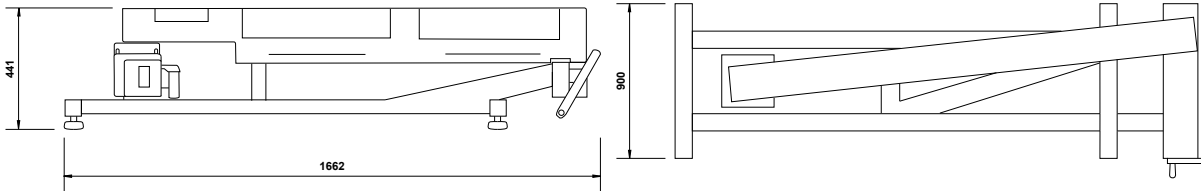
## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                      |                                                                                         |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Precisión / Accuracy / Précision                                                                     | +/- 0,5% (CW/CCW)                                                                       |
| Certificado de calibración / Calibration certificate / Certificat de calibrage                       | ●                                                                                       |
| Pares prefijados / Preset Torque values / Paires Préétablies                                         | 10                                                                                      |
| Sistema de aviso / Warning system / Système d'alerte                                                 | Alarma luminosa / Light alarm / Alarme lumineuse                                        |
| Modo de operación / Operation mode / Mode d'opération                                                | 1st / Peak hold / Track                                                                 |
| Temperatura de trabajo / Working temperature / Température de travail                                | 5 °C ~ 40 °C                                                                            |
| Temperatura de almacenamiento / Storage temperature / Température de stockage                        | -20 °C ~ 70 °C                                                                          |
| Pantalla / Screen / Écran                                                                            | 4 dígitos / 4 digits / 4 chiffres                                                       |
| Memoria de datos / Data memory / Mémoire de données                                                  | -                                                                                       |
| Diseñado para llaves dinamométricas / Designed for torque wrenches / Conçu pour clés dynamométriques | Dial - Resorte - Digital / Dial - Click - Digital / Lecture directe - Ressort - Digital |
| Salida USB / USB output / Sortie USB                                                                 | ●                                                                                       |
| Apagado automático / Automatic power off / Extinction automatique                                    | ●                                                                                       |
| Software CD                                                                                          | ●                                                                                       |

• Posibilidad de suministrar con certificado de calibración externa ENAC / ENAC calibration certificate can be issued on demand / Possibilité de fournir avec le certificat d'étalonnage externe ENAC  
12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

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# EGATORK



| COD.  | AF inch | AF mm | N.m    | Lb.ft  | Lb.in    | Kg.cm    | L x W x H (mm) | Incluye / Includes / Inclus | Kg  |   |
|-------|---------|-------|--------|--------|----------|----------|----------------|-----------------------------|-----|---|
| 57669 | 1/2     | -     | 35-350 | 26-260 | 310-3100 | 357-3570 | 1662x900x441   | 57650                       | 100 | 1 |

12M

## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

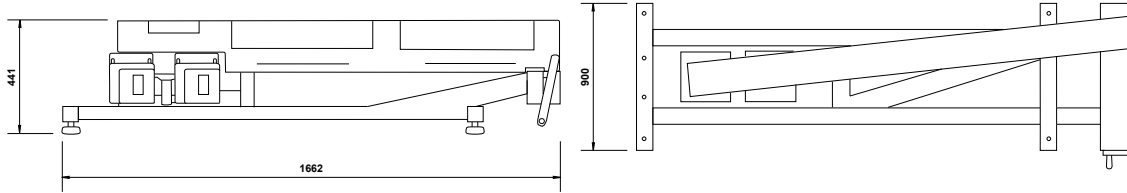
|                                                                                                      |                                                                                         |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Precisión / Accuracy / Précision                                                                     | +/-1% (CW/CCW)                                                                          |
| Certificado de calibración / Calibration certificate / Certificat de calibrage                       | ●                                                                                       |
| Pares prefijados / Preset Torque values / Paires Préétablies                                         | 10                                                                                      |
| Sistema de aviso / Warning system / Système d'alerte                                                 | Alarma luminosa / Light alarm / Alarme lumineuse                                        |
| Modo de operación / Operation mode / Mode d'opération                                                | 1st / Peak hold / Track                                                                 |
| Temperatura de trabajo / Working temperature / Température de travail                                | 5 °C ~ 40 °C                                                                            |
| Temperatura de almacenamiento / Storage temperature / Température de stockage                        | -20 °C ~ 70 °C                                                                          |
| Pantalla / Screen / Écran                                                                            | 4 dígitos / 4 digits / 4 chiffres                                                       |
| Memoria de datos / Data memory / Mémoire de données                                                  | -                                                                                       |
| Diseñado para llaves dinamométricas / Designed for torque wrenches / Conçu pour clés dynamométriques | Dial - Resorte - Digital / Dial - Click - Digital / Lecture directe - Ressort - Digital |
| Salida USB / USB output / Sortie USB                                                                 | ●                                                                                       |
| Apagado automático / Automatic power off / Extinction automatique                                    | ●                                                                                       |
| Software CD                                                                                          | ●                                                                                       |

10

**APRIETE CONTROLADO**  
**CONTROLLED TIGHTENING**  
**SERRAGE CONTROLÉ**  
**KONTROLLIERTES ANZIEHEN**  
**CONTROLLO DI SERRAGGIO**  
**APERTO CONTROLADO**  
**КОНТРОЛИРУЕМАЯ ЗАТЯЖКА**



# EGAMASTER



| COD.         | AF inch | AF mm | N.m     | Lb.ft   | Lb.in | Kg.cm | L x W x H (mm) | Induye / Includes / Inclus | Kg  |   |
|--------------|---------|-------|---------|---------|-------|-------|----------------|----------------------------|-----|---|
| <b>57664</b> | 1/2     | 27    | 35-2000 | 26-1475 | -     | -     | 1662x900x441   | 57650, 57652               | 100 | 1 |

12M

### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                      |                                                                                         |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Precisión / Accuracy / Précision                                                                     | +/-1% (CW/CCW)                                                                          |
| Certificado de calibración / Calibration certificate / Certificat de calibrage                       | ●                                                                                       |
| Pares prefijados / Preset Torque values / Paires Préétablies                                         | 10                                                                                      |
| Sistema de aviso / Warning system / Système d'alerte                                                 | Alarma luminosa / Light alarm / Alarme lumineuse                                        |
| Modo de operación / Operation mode / Mode d'opération                                                | 1st / Peak hold / Track                                                                 |
| Temperatura de trabajo / Working temperature / Température de travail                                | 5 °C ~ 40 °C                                                                            |
| Temperatura de almacenamiento / Storage temperature / Température de stockage                        | -20 °C ~ 70 °C                                                                          |
| Pantalla / Screen / Écran                                                                            | 4 dígitos / 4 digits / 4 chiffres                                                       |
| Memoria de datos / Data memory / Mémoire de données                                                  | -                                                                                       |
| Diseñado para llaves dinamométricas / Designed for torque wrenches / Conçu pour clés dynamométriques | Dial - Resorte - Digital / Dial - Click - Digital / Lecture directe - Ressort - Digital |
| Salida USB / USB output / Sortie USB                                                                 | ●                                                                                       |
| Apagado automático / Automatic power off / Extinction automatique                                    | ●                                                                                       |
| Software CD                                                                                          | ●                                                                                       |

• Posibilidad de suministrar con certificado de calibración externa ENAC / ENAC calibration certificate can be issued on demand / Possibilité de fournir avec le certificat d'étalonnage externe ENAC

**12M** GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

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**EGAMASTER**  
 ART IN INNOVATION

547

## EGATORAK

**SOFTWARE MEDIDA ENSAYOS PARA MEDIDORES DE PAR / SOFTWARE TORQUE TEST VALUES / LOGICIEL DE MESURE DE TEST POUR MESUREURS DE COUPLE / SOFTWARE-DREHMOMENTTESTWERTE / SOFTWARE TEST PER MISURATORI DI COPPIA / SOFTWARE MEDIÇÃO ENSAIOS PARA MEDIDORES DE BINÁRIO / ПРОГРАММНОЕ ОБЕСПЕЧЕНИЕ ДЛЯ ИЗМЕРЕНИЯ ЗНАЧЕНИЯ КРУТЯЩЕГО МОМЕНТА**

| COD.         | Válido para / Valid for / Valable pour                 |
|--------------|--------------------------------------------------------|
| <b>57654</b> | 69200, 69201, 57650, 57651, 57652, 57664, 57665, 57666 |

12M

### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Permite lectura y registro de datos en ordenador / Allows to read and record measured data on computer / Permet de lire et d'enregistrer des données sur un ordinateur



**SOFTWARE DE MEDICIÓN DE PAR EN TIEMPO REAL / REAL TIME MEASUREMENT TORQUE SOFTWARE / SOFTWARE DE MESURE DE COUPLE EN TEMPS RÉEL / ECHTZEITMESSUNG DREHMOMENT SOFTWARE / SOFTWARE PER MISURARE LA COPPIA IN TEMPO REALE / SOFTWARE DE MEDIÇÃO DE PAR EM TEMPO REAL / ПРОГРАММНОЕ ОБЕСПЕЧЕНИЕ ДЛЯ ДИНАМОМЕТРИЧЕСКИХ КЛЮЧЕЙ ДЛЯ ОТОБРАЖЕНИЯ МОМЕНТА В РЕЖИМЕ РЕАЛЬНОГО ВРЕМЕНИ**

| COD.         | Válido para / Valid for / Valable pour                 | Incluye / Includes / Inclus              |
|--------------|--------------------------------------------------------|------------------------------------------|
| <b>57653</b> | 69200, 69201, 57650, 57651, 57652, 57664, 57665, 57666 | USB Licencia / USB License / Licence USB |

12M

### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Permite generar la gráfica del par medido / Allows to generate the graph of the measured torque / Permet de générer le graphique du couple mesuré



**CERTIFICADOS DE CALIBRACIÓN / CALIBRATION CERTIFICATES / CERTIFICATS DE CALIBRAGE / KALIBRIERUNGSZERTIFIKATE / CERTIFICATO DI CALIBRAZIONE / CERTIFICADOS DE CALIBRAÇÃO / ПОВЕРОЧНЫЕ СЕРТИФИКАТЫ**

**EXTERNA / EXTERNAL / EXTERNE / EXTERN / ESTERNO / EXTERNO / ВНЕШНИЙ**

| COD.         | ENAC |
|--------------|------|
| <b>99990</b> | ENAC |

**INTERNA / INTERNAL / INTERNE / INTERN / INTERNO / INTERNO / ВНУТРЕННИЙ**

| COD.         |
|--------------|
| <b>99989</b> |

**ADAPTADOR ANGULAR / ANGLE METER / ADAPTATEUR ANGULAIRE / WINKELMESSER / ADATTATORE ANGOLARE / MEDIDOR ANGULAR / ИЗМЕРИТЕЛЬ УГЛА**

| COD.         |  |  |  |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>62981</b> | 1-360°                                                                              | 0,5                                                                                 | 1                                                                                   |

12M

### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                       |                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Precisión / Accuracy / Précision                                                                                      | +/-2%                                                                           |
| Pares prefijados / Preset Torque values / Paires Préétablies                                                          | 9                                                                               |
| Sistema de aviso / Warning system / Système d'alerte                                                                  | Alarma luminosa y sonora / Audible and light alarm / Alarme lumineuse et sonore |
| Baterías / Batteries / Piles                                                                                          | AAA x2                                                                          |
| Duración de la batería / Battery operation time / Durée de fonction de batterie                                       | 24 h                                                                            |
| Duración de la batería (standby) / Battery life (standby) / Durée de fonction de batterie (standby)                   | 1 año / 1 year / 1 année                                                        |
| Estuche individual / Individual case / Étui individuel                                                                | ●                                                                               |
| Resolución / Resolution / Résolution                                                                                  | 0,1                                                                             |
| Memoria / Memory / Mémoire                                                                                            | 50                                                                              |
| Unidad de medida / Unit selection / Unité de mesure                                                                   | Grado° / Grade° / Degré°                                                        |
| Apto para cualquier llave de apriete / Valid for any kind of tightening wrench / Apte pour toutes les clés de serrage | Magnético / Magnetic / Magnétique                                               |

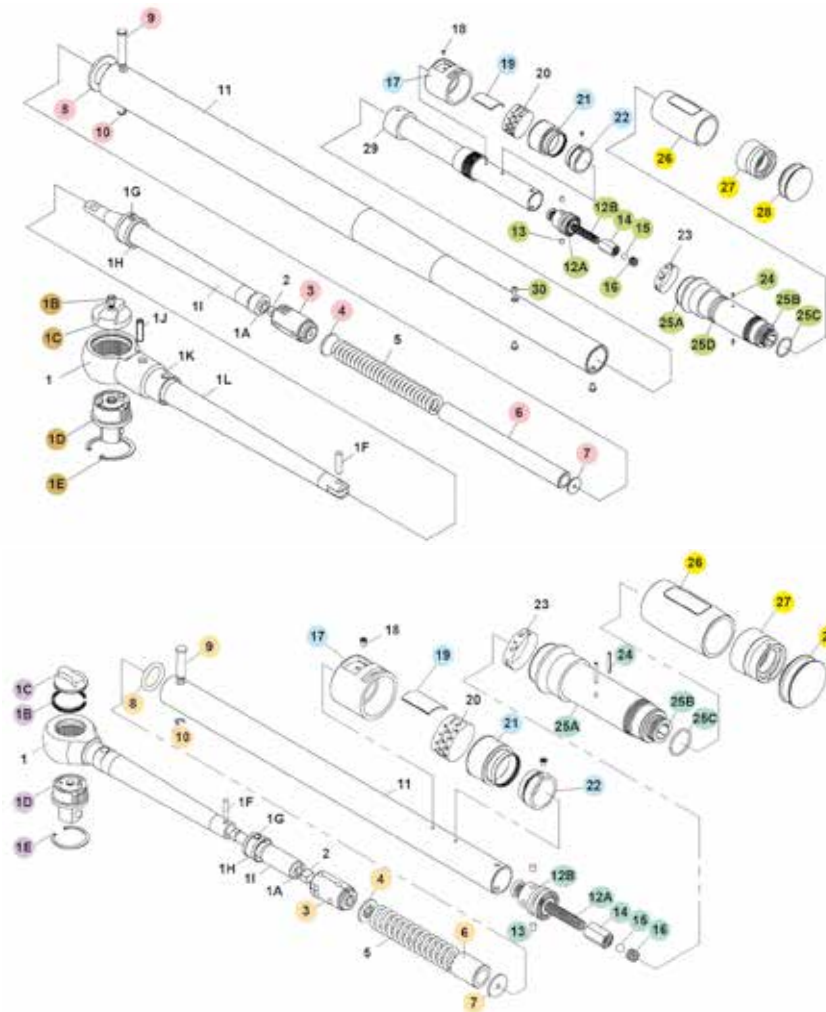




# EGAMASTER

**MANTENIMIENTO DE MECANISMO INTERIOR / INSIDE MECHANISM MAINTENANCE / ENTRETIEN DU MÉCANISME INTÉRIEUR / WARTUNG DES INNEREN MECHANISMUS / MANUTENZIONE DI MECCANISMO INTERNO / MANUTENÇÃO DE MECANISMO INTERIOR / ОБСЛУЖИВАНИЕ ВНУТРЕННЕГО МЕХАНИЗМА**

**LLAVES DINAMOMETRICAS ANALÓGICAS / ANALOGIC TORQUE WRENCH / CLÉ DYNAMOMÉTRIQUE ANALOGIQUE / ANALOGE DREHMOMENTSCHÜSSEL / CHIAVE DINAMOMETRICA ANALOGICA / CHAVE DINAMOMÉTRICA ANALÓGICA / АНАЛОГОВЫЙ ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ**



| COD.  | Válido para / Valid for / Valable pour                   | Descripción / Description / Description                    | Composición / Composition / Composition |
|-------|----------------------------------------------------------|------------------------------------------------------------|-----------------------------------------|
| 89285 | All                                                      | Mango / Handle / Manche                                    | ●                                       |
| 89286 | 1/4", 3/8", 1/2"                                         | Ajuste del par / Torque adjusting / Réglage du torque      | ●                                       |
| 89287 | 3/4", 1"                                                 |                                                            | ●                                       |
| 89288 | All                                                      | Escala / Scale / Échelle                                   | ●                                       |
| 89289 | 1/4", 3/8", 1/2"                                         |                                                            | ●                                       |
| 89290 | 3/4", 1"                                                 | Trinquete / Pawl / Rochet                                  | ●                                       |
| 89291 | 1/4"                                                     |                                                            | ●                                       |
| 89292 | 3/8"                                                     |                                                            | ●                                       |
| 89293 | 1/2"                                                     |                                                            | ●                                       |
| 89294 | 3/4"                                                     | Sistema de carraca / Ratchet assembly / Système de cliquet | ●                                       |
| 89295 | 1" (para 62976) / 1" (for 62976) / 1" (pour 62976)       |                                                            | ●                                       |
| 89296 | 1" (excepto 62976) / 1" (except 62976) / 1" (sauf 62976) |                                                            | ●                                       |

12M

• Posibilidad de suministrar con certificado de calibración externa ENAC / ENAC calibration certificate can be issued on demand / Possibilité de fournir avec le certificat d'étalonnage externe ENAC  
**12M** GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

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# 10

**APRIETE CONTROLADO**  
**CONTROLLED TIGHTENING**  
**SERRAGE CONTRÔLÉ**  
**KONTROLLIERTES ANZIEHEN**  
**CONTROLLO DI SERRAGGIO**  
**APERTO CONTROLADO**  
**КОНТРОЛИРУЕМАЯ ЗАТЯЖКА**



## EGATORAK

■ SET DE DEMOSTRACIÓN / *SHOW SET* / SET DE DÉMONSTRATION / *DEMO SATZ* / KIT DI DIMOSTRAZIONE / *KIT DE DEMONSTRAÇÃO* / ДЕМОНСТРАЦИОННЫЙ НАБОР



| COD.         | PCS.                                                  |                                                                                                      |           |
|--------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------|
| <b>50206</b> | 8                                                     | 58592                                                                                                | 29        |
| 12M          |                                                       |                                                                                                      |           |
| PCS.         | Composición / <i>Composition</i> / <i>Composition</i> | Descripción / <i>Description</i> / <i>Description</i>                                                |           |
| 1            | 62954                                                 | Llave dinamométrica analógica 1/2" / <i>Analogic torque wrench 1/2"</i>                              | 25-125 Nm |
|              | 62957                                                 | Llave dinamométrica digital 1/2" / <i>Digital torque wrench 1/2"</i>                                 | 10-200 Nm |
|              | 57650                                                 | Medidor de par 1/2" / <i>Torque tester 1/2"</i>                                                      | 10-350 Nm |
|              | 57653                                                 | CD software de medición de par en tiempo real / <i>Graphic real time measurement torque software</i> |           |
| 3            | 50208                                                 | Base medidor de par / <i>Base for torque tester</i>                                                  | -         |
|              | 69583                                                 | Sargentos F / <i>F Clamps</i>                                                                        |           |

12M GARANTIA 12 MESES / *12 MONTHS OF WARRANTY* / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

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HERRAMIENTA HIDRÁULICA  
HYDRAULIC TOOLS  
OUTILLAGE HYDRAULIQUE  
HYDRAULISCHE WERKZEUGE  
UTENSILERIA IDRAULICA  
FERRAMENTA HIDRÁULICA  
ГИДРАВЛИЧЕСКИЙ ИНСТРУМЕНТ



Las llaves hidráulicas dinamométricas de **EGA Master** han sido diseñadas para el apriete controlado de conexiones tuerca-perno. El movimiento de rotación del conjunto tuerca-perno se consigue a través del flujo hidráulico y presión suministrados por las bombas hidráulicas **EGA Master**, con mando remoto para controlar el avance y retroceso del flujo hidráulico.

La gama **EGA Master** de llaves hidráulicas dinamométricas de cuadrado conductor (para trabajar con llaves de vaso de impacto) o de cassettes hexagonales (no requieren de vaso adicional) permiten el apriete de una de las más amplias gamas de medidas tanto en milímetros como en pulgadas. Sus reducidas dimensiones, junto con su alta durabilidad, las hacen indispensables en una gran variedad de sectores: petroquímico, eólico, generación de energía, naval, etc.

*EGA Master's hydraulic torque wrenches have been designed for controlled tightening of nut-bolt connections. The remotely controlled hydraulic flow and pressure supplied by EGA Master hydraulic power units provide the rotation of the nut on the bolt.*

*The assortment of square drive and hexagonal cassettes hydraulic torque wrenches allows tightening of a very wide range of nut sizes, both in millimeters and inches. Their small dimensions and high durability make them the perfect tool for several sectors: petrochemical industry, wind sector, power generation, naval sector, etc. Square drive wrenches need additional impact socket wrenches while hexagonal cassette ones don't.*

Les clés hydrauliques dynamométriques d'**EGA Master** ont été conçues pour le serrage contrôlé de connexions écrou-boulon. Le mouvement de rotation de l'ensemble écrou-boulon s'obtient à travers le flux hydraulique et la pression fournie par les pompes hydrauliques **EGA Master**, commande à distance afin de contrôler l'avancée et de recul les flux hydrauliques.

La gamme **EGA Master** de clés hydrauliques dynamométriques à carré conducteur (pour travailler avec les douilles à choc) ou de cassettes hexagonales (qui n'ont pas besoin de clé additionnelle) permettent le serrage d'une des plus larges gammes de mesures autant en mm qu'en pouces. Ses dimensions réduites ainsi que sa haute durabilité, les font indispensables dans une grande variété de secteurs: pétrochimique, éolien, production d'énergie, navale, etc.



#### Características comunes

Su conector hidráulico de 360°x360° facilita el uso de la llave al permitir una movilidad total de la manguera.

#### Common features

The 360°x360° swivel allows a total mobility of the hose, making its use easy and comfortable.

#### Caractéristiques communes

Son connecteur hydraulique de 360°x360° facilite l'usage de la clé car elle permet une mobilité totale du tuyau.



## LLAVES HIDRÁULICAS DE CUADRADO SQUARE DRIVE TORQUE WRENCHES CLÈS HYDRAULIQUES À CARRÉ

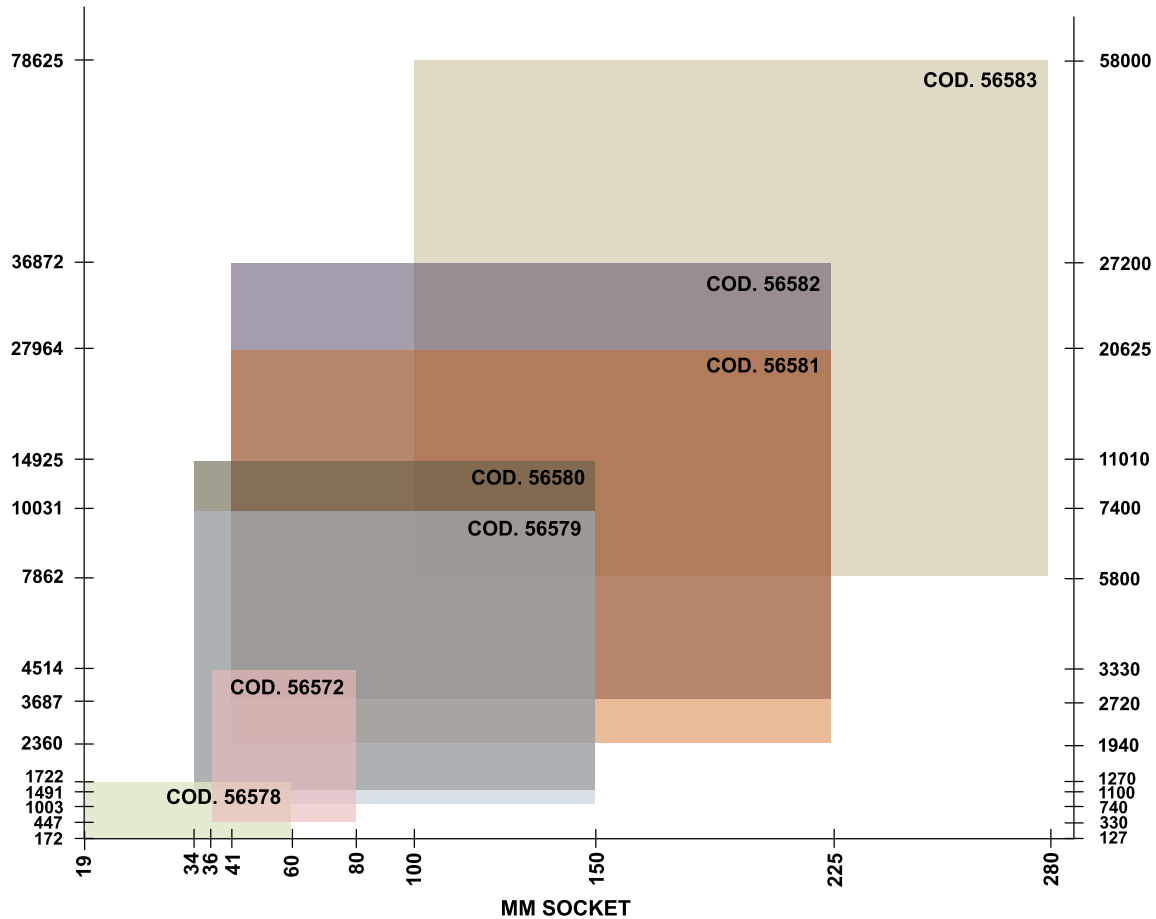


Tabla de aprietes grabada en láser para un acceso más rápido.  
*Laser engraved torque chart for faster access.*

Table de serrages gravée à laser pour un accès plus rapide.



• Brazo de reacción giratorio 360° para una correcta fijación en cualquier aplicación.  
*360° swivel reaction arm for a correct fitting on any application.*

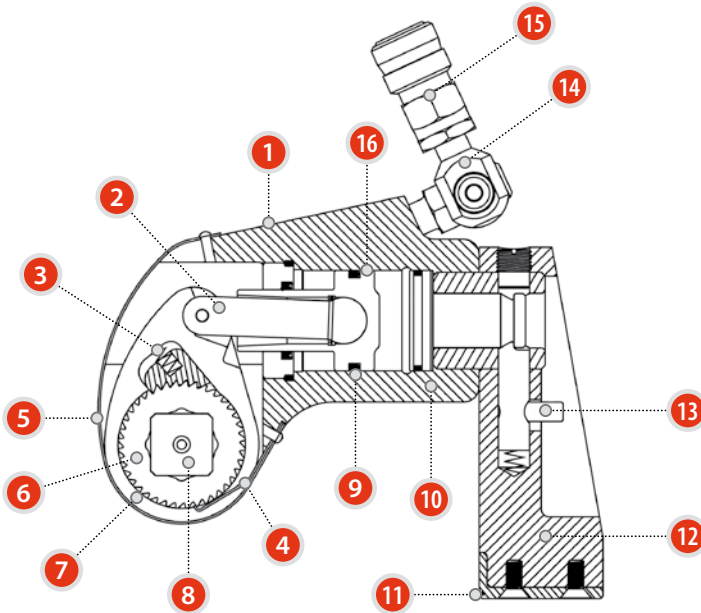
• Bras de réaction giratoire 360° pour une fixation correcte dans n'importe quelle application.

• Permite el uso de la herramienta sin brazo de reacción.  
*Allows the use of the tool without reaction arm.*  
Permet l'utilisation de l'outil sans bras de réaction.

• Permite un cambio rápido de sentido presionando únicamente el cuadrado conductor, sin necesidad de herramientas adicionales (códigos 56578, 56572, 56579, 56580).  
*Allows quick change of direction pushing the square drive, without additional tools (codes 56578, 56572, 56579, 56580).*

• Permet un changement rapide de sens en appuyant uniquement sur le carré conducteur, sans nécessité d'outils additionnels (codes 56578, 56572, 56579, 56580).

**LLAVES DINAMOMÉTRICAS HIDRÁULICAS DE CUADRADO CONDUCTOR / SQUARE DRIVE HYDRAULIC TORQUE WRENCHES / CLÉS DYNAMOMÉTRIQUES HYDRAULIQUES DE CARRÉ CONDUCTEUR / QUADRAT HYDRAULISCHE DREHMOMENTSCHLÜSSEL / CHIAVI DINAMOMETRICHE IDRAULICHE CON ATTACCO QUADRO / CHAVES DINAMOMÉTRICAS HIDRÁULICAS DE QUADRADO CONDUTOR / ГИДРАВЛИЧЕСКИЙ ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ С ПРИСОЕДИНИТЕЛЬНЫМ КВАДРАТОМ**

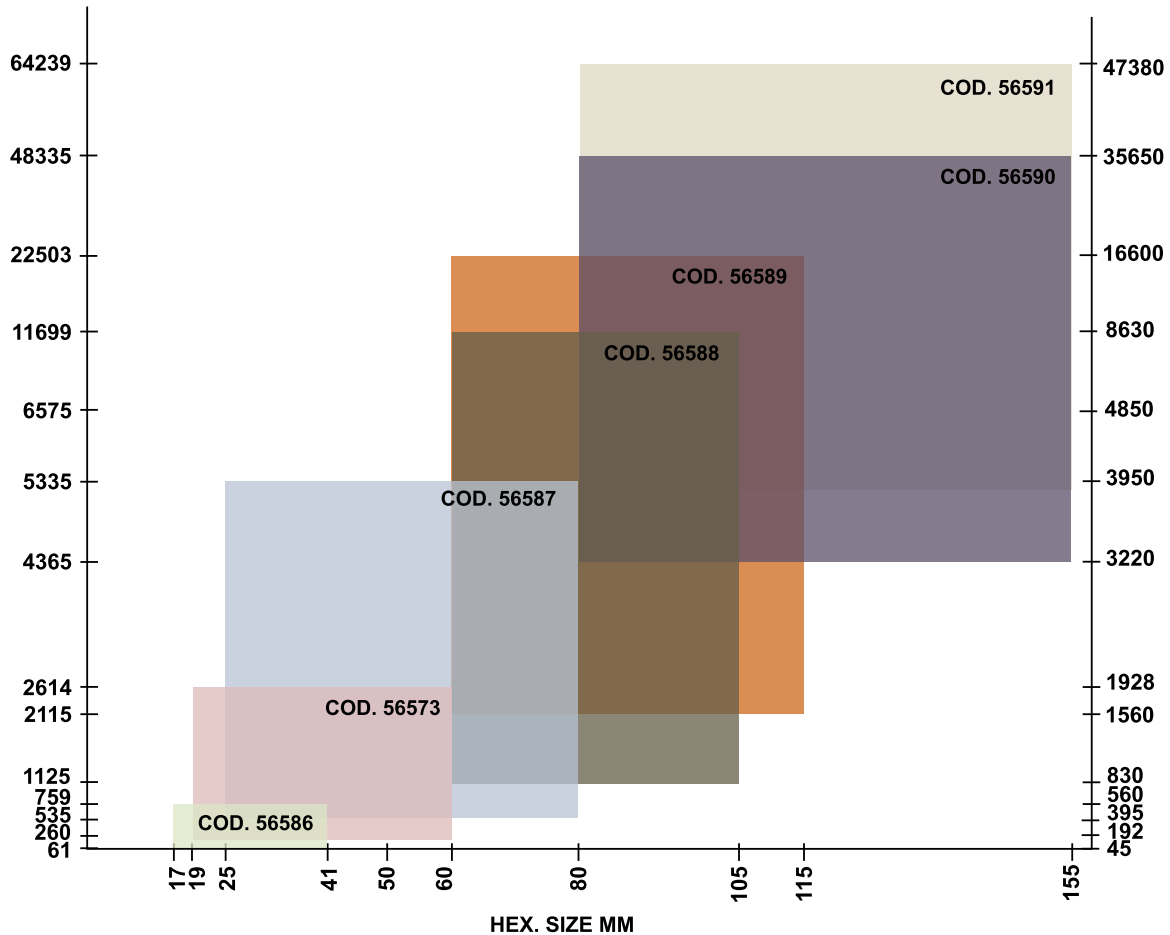


- 1 Chasis de un solo cuerpo / Mono-body housing / Châssis d'un seul corps**
- 2 Vástago de empuje oscilante / Balanced drive rod / Tige à poussée oscillante**  
Movimiento del pistón sin cargas / *Wide load-free piston movement* / Mouvement du piston sans charges
- 3 Cremallera multidentada / Multi-tooth drive segment / Crémaillère multi dentelée**  
Asegura una carrera de apriete de 27 grados / *Ensures up to 27 degree torque stroke* / Assure un parcours de serrage de 27 degrés
- 4 Carraca Anti-Retroceso / Anti-back lash mechanism / Cliquet Anti- Recul**  
Permite su operación sin manos / *Provides hands free operation* / Permet son opération sans mains
- 5 Tabla de torsiones grabada con láser / Laser engraved torque chart / Plancher de torsion gravée au laser**  
No más búsquedas de las tablas / *No more searching for charts* / Plus de recherches des planches
- 6 Rueda multidentada / Multi-tooth ratchet / Roue multi dentelée**  
Los fuertes dientes de Vascomax aportan fuerza, precisión y un ángulo de apriete de 27 grados / *Strong Vascomax teeth provide strength, accuracy and 27 degree torque stroke* / Les fortes dents de Vascomax apportent force, précision et angle de serrage de 27 degrés

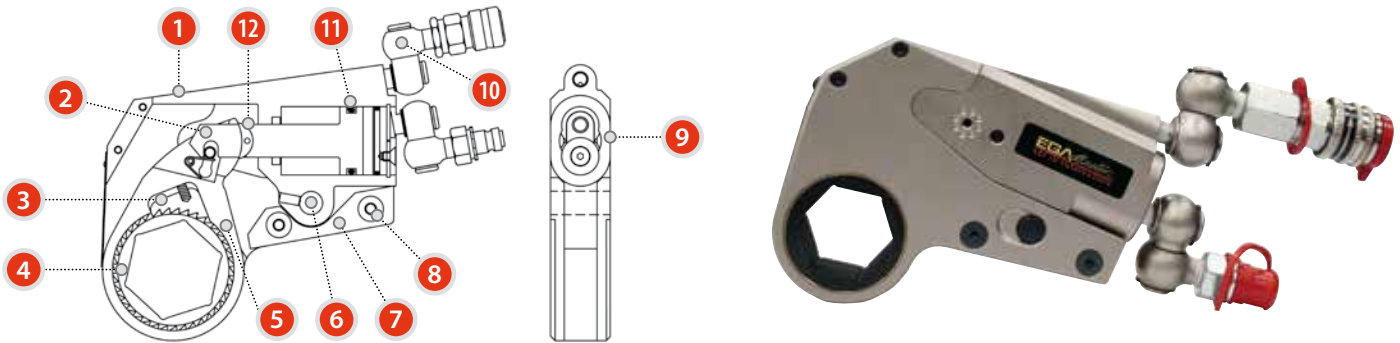
- 7 Disco transmisión de una sola pieza / One piece drive plate / Disque transmission d'une seule pièce**  
El disco de transmisión de Vascomax de una pieza proporciona una mayor vida útil e incrementa la durabilidad / *One piece Vascomax drive plate provides longer life and increased durability* / Le disque transmission de Vascomax d'une pièce proportionne une vie utile supérieure et augmente la durabilité
- 8 Conductor a través de empuje / Push-through drive / Conducteur à travers la poussée**  
Empuje simple para cambiar de aflojar a apretar / *Simply push to switch from loosen to tighten* / Poussée simple pour changer de desserrer à serrer
- 9 Junta de pistón individual / Single seal piston / Joint de piston individuel**  
Aumenta el tiempo de trabajo sin mantenimientos / *Assures extended maintenance free operation* / Augmente le temps de travail sans maintenances
- 10 Acción directa sobre el chasis / Direct housing reaction / Action directe sur le châssis**  
Permite el uso de la herramienta sin el brazo de reacción / *Allows use of tool without reaction arm* / Permet l'utilisation de l'outil sans le bras de réaction
- 11 Extremo del brazo de reacción de acero / Steel reaction boot / Extrémité du bras de réaction en acier**  
La característica de campo sustituible protege el brazo de reacción / *Field replaceable feature protects reaction arm* / La caractéristique du champ remplaçable protège le bras de réaction

- 12 Brazo de reacción de larga longitud / Long length reaction arm / Bras de réaction de longue longueur**  
Permite su apoyo en todas las aplicaciones / *Allows for reaction on all applications* / Permet son appui dans toutes les applications
- 13 Botón de liberación del brazo de reacción / Reaction arm release button / Bouton de libération du bras de réaction**  
Protegido dentro de la carcasa del brazo de reacción / *Protected within reaction arm housing* / Protéger dans la carcasse du bras de réaction
- 14 Conector giratorio 360°x360° / 360°x360° swivel / Connecteur giratoire 360°x360°**  
Permite el despeje de las mangueras en todas las aplicaciones / *Allows hose to be cleared on all applications* / Permet le dégagement des tuyaux dans toutes les applications
- 15 Rápidas conexiones antigoteo / No drip quick connect couplers / Connections anti-goute rapides**  
Asegura un manejo fácil y seguro / *Assures easy and safe operation* / Assure un manieiment facile et sûr
- 16 Pistón de aleación de acero / Steel alloy piston / Piston d'alliage en acier**  
Una composición robusta permite un ciclo de trabajo mayor / *Robust composition allows for longer operation cycle* / Une composition robuste permet un cycle plus long de travail

## LLAVES HIDRÁULICAS DE CASSETTE HEXAGONAL HEXAGONAL CASSETTES TORQUE WRENCHES CLÉS HYDRAULIQUES À CASSETTE HEXAGONALE



**LLAVES DINAMOMÉTRICAS HIDRÁULICAS HEXAGONALES / HEXAGONAL HYDRAULIC TORQUE WRENCHES / CLÉS DYNAMOMÉTRIQUES HYDRAULIQUES HEXAGONALES / HEX HYDRAULISCHE DREHMOMENTSCHLÜSSEL / CHIAVI DINAMOMETRICHE IDRAULICHE ESAGONALI / CHAVES DINAMOMÉTRICAS HIDRÁULICAS HEXAGONAIS / ГИДРАВЛИЧЕСКИЙ ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ КАСЕТНОГО ТИПА ШЕСТИГРАННЫЙ**



**1 Cilindro con "forma de cacahuete" / "Peanut-shaped" cylinder / Cylindre en "forme de cacahuète"**

Fije tanto el cilindro como el cassette en zonas de difícil acceso / Fit both the cylinder and link in confined areas / Fixez le cylindre et la cassette dans les zones de difficile accès.

**2 Acoplamiento del pistón / Engagement rod / Couplage du piston**

En el primer movimiento embraga automáticamente / Automatically engages link on the first stroke / Dans le premier mouvement embraie automatiquement

**3 Trinquete anti-bloqueo / Never-lock drive paw / Cliquet anti blocage**

Asegura que no se bloquee nunca la herramienta / Ensures tool will never lock on / Assure que l'outil ne se bloque jamais

**4 Trinquete multi-dentado / Multi-tooth ratchet / Cliquet multi dentelé**

Permite una precisión de carrera de apriete de 27 grados / Allows for 27 degree torque stroke accuracy / Permet une précision de parcours de serrage de 27 degrés

**5 Disco de arrastre de una sola pieza / One piece drive plate / Disque de traînage d'une seule pièce**

Una combinación robusta que permite radios de curvatura pequeños / Robust alloy provides for small nose radius / Une combinaison robuste qui permet d'obtenir des petits rayons de courbure

**6 Pasador de enganche / Link pin / Goupille d'accrochage**

Pasador para engancharlo al engranaje del cilindro. No se necesitan herramientas / One pin for link to cylinder engagement, no tools required / Tige de crochet pour l'accrocher à l'engrenage du cylindre. Pas besoin d'outils

**7 Superficie de reacción en línea / In-line reaction pad / Surface de réaction en ligne**

Asegura todo el tiempo una reacción libre / Assures free reaction every time / Assure tout le temps une réaction libre

**8 Pasador de alineación de acero / Steel alignment pin / Tige d'alignement en acier**

Asegura una carga de desplazamiento igual entre las placas laterales / Assures equal load displacement between side plates / Assure une charge de déplacement pareil entre les plaques latérales

**9 Diseño completamente delgado / Completely flat design / Design complètement mince**

El ancho del cilindro y del cassette son iguales para espacios estrechos / Cylinder and link width are equal for tight fits / La largeur du cylindre et de la cassette son pareil pour des espaces étroits

**10 Conector 360°x360° / 360°x360° swivel / Connecteur 360°x360°**

Permite el despeje de las mangueras en todas las aplicaciones / Allows hose to be cleared on all applications / Permet le dégagement des tuyaux d'arrosage dans toutes les applications

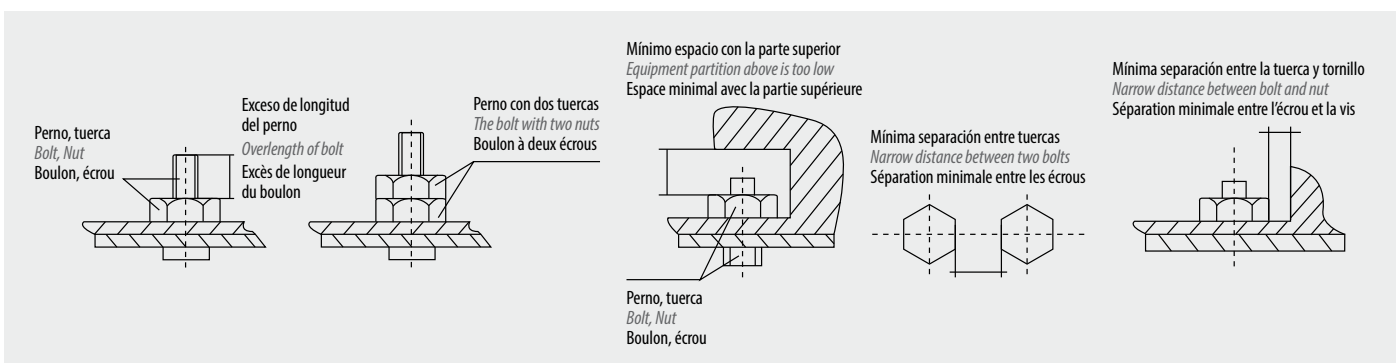
**11 Sellado hermético de teflón / Proprietary piston seal / Scellé hermétiquement en téflon**

Evita tareas de mantenimiento durante años / Provides years of maintenance free use / Évite les tâches de maintenance pendant des années

**12 Pasador / Slider / Tige**

Evita el desgaste del pistón y del disco de transmisión y reduce los costes de reparación / Prevents wear of piston and drive plate and reduces cost of repairs / Évite l'usure du piston et du disque de transmission et réduit les coûts de réparation

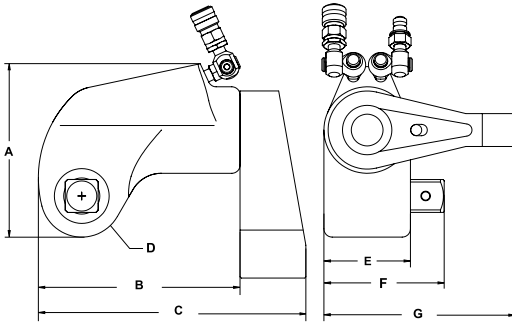
**■ ALGUNAS SITUACIONES DONDE PUEDEN SER ÚTILES LAS LLAVES HIDRÁULICAS HEXAGONALES**  
**SOME SITUATIONS WHERE HEXAGONAL TORQUE WRENCHES CAN BE USEFUL**  
**QUELQUES SITUATIONS OÙ LES CLÉS HYDRAULIQUES HEXAGONALES PEUVENT ÊTRE UTILES**





LLAVES DINAMOMÉTRICAS HIDRÁULICAS / HYDRAULIC TORQUE WRENCHES / CLÉS DYNAMOMÉTRIQUES HYDRAULIQUES / HYDRAULISCHE DREHMOMENTSCHLÜSSEL / CHIAVI DINAMOMETRICHE IDRAULICHE / CHAVES DINAMOMÉTRICAS HIDRÁULICAS / ГИДРАВЛИЧЕСКИЕ ДИНАМОМЕТРИЧЕСКИЕ КЛЮЧИ

LLAVES DINAMOMÉTRICAS HIDRÁULICAS DE CUADRADO CONDUCTOR / SQUARE DRIVE HYDRAULIC TORQUE WRENCHES / CLÉS DYNAMOMÉTRIQUES HYDRAULIQUES DE CARRÉ CONDUCTEUR / QUADRAT HYDRAULISCHE DREHMOMENTSCHLÜSSEL / CHIAVI DINAMOMETRICHE IDRAULICHE CON ATTACCO QUADRO / CHAVES DINAMOMÉTRICAS HIDRÁULICAS DE QUADRADO CONDUTOR / ГИДРАВЛИЧЕСКИЙ ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ С ПРИСОЕДИНИТЕЛЬНЫМ КВАДРАТОМ



Zonas / Zones

1, 2 GAS / GAZ

| COD.  | AF<br>inch | N.m        | Ft.lb      | Precisión/<br>Accuracy /<br>Précision | Repit. | Ciclo de trabajo /<br>Duty cycle / Cycle<br>de travail | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | Kg  |
|-------|------------|------------|------------|---------------------------------------|--------|--------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|-----|
| 56578 | 3/4        | 172-1722   | 127-1270   |                                       |        |                                                        | 105    | 120    | 160    | 25     | 50     | 70     | 110    | 1,7 |
| 56572 | 1          | 447-4514   | 330-3330   |                                       |        |                                                        | 135    | 155    | 210    | 33     | 65     | 95     | 150    | 4,0 |
| 56579 | 1.1/2      | 1003-10031 | 740-7400   |                                       |        |                                                        | 180    | 210    | 280    | 45     | 90     | 130    | 200    | 8,5 |
| 56580 |            | 1491-14925 | 1100-11010 | ±3%                                   | 100%   | 100%                                                   | 200    | 230    | 310    | 49     | 100    | 140    | 220    | 13  |
| 56581 |            | 2630-27964 | 1940-20625 |                                       |        |                                                        | 230    | 240    | 410    | 60     | 125    | 180    | 280    | 28  |
| 56582 | 2.1/2      | 3687-36872 | 2720-27200 |                                       |        |                                                        | 260    | 310    |        | 65     | 135    | 190    | 300    | 32  |
| 56583 |            | 7862-78625 | 5800-58000 |                                       |        |                                                        | 290    | 390    | 520    | 80     | 165    | 230    | 360    | 60  |

Ex I 12M

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

Designación ATEX / ATEX marking / Marquage ATEX

© II 2 G Ex c IIB T4

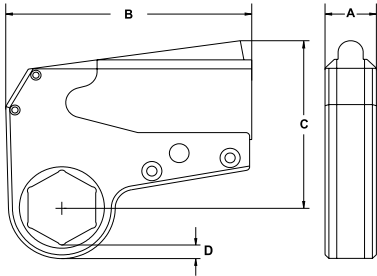
EGAMaster  
ART IN INNOVATION

12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

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**LLAVES DINAMOMÉTRICAS HIDRÁULICAS HEXAGONALES / HEXAGONAL HYDRAULIC TORQUE WRENCHES / CLÉS DYNAMOMÉTRIQUES HYDRAULIQUES HEXAGONALES / HEX  
 HYDRAULISCHE DREHMOMENTSCHLÜSSEL / CHIAVI DINAMOMETRICHE IDRAULICHE ESAGONALI / CHAVES DINAMOMÉTRICAS HIDRÁULICAS HEXAGONAIS / ГИДРАВЛИЧЕСКИЙ  
 ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ КАССЕТНОГО ТИПА ШЕСТИГРАННЫЙ**

**UNIDAD DE IMPULSIÓN / DRIVE UNIT / UNITÉ D'IMPULSION / ANTRIEB / UNITÀ DISCO / UNIDADE DE IMPULSÃO / СИЛОВОЙ ПРИВОД**



**Zonas / Zones**

**1, 2 GAS / GAZ**

| COD.  |                     | N.m        | Ft.lb      |     |         | Precisión / Accuracy / Précision | Repit. | Ciclo de trabajo / Duty cycle / Cycle de travail | A (mm) | B (mm) | C (mm) | D (mm) |
|-------|---------------------|------------|------------|-----|---------|----------------------------------|--------|--------------------------------------------------|--------|--------|--------|--------|
| 56586 | 56594, 56620        | 61-759     | 45-560     | 0,5 | 0,5     |                                  |        |                                                  | 20     | 110    | 85     | 6      |
| 56573 | 56621, 56653, 56574 | 260-2614   | 192-1928   | 1,5 | 1,0-1,5 |                                  |        |                                                  | 32     | 165    | 100    | 9      |
| 56587 | 56654, 56691        | 535-5335   | 395-3950   | 2,7 | 2,4-3,4 |                                  |        |                                                  | 41     | 200    | 145    | 12     |
| 56588 | 56692, 56732        | 1125-11699 | 830-8630   | 5   | 5,5-6,5 | ±3%                              | 100%   | 100%                                             | 50     | 260    | 180    | 14     |
| 56589 | 56733, 56790        | 2115-22503 | 1560-16600 | 7,5 | 9,5-13  |                                  |        |                                                  | 65     | 330    | 195    | 17     |
| 56590 |                     | 4365-48335 | 3220-35650 | 12  | 13-18   |                                  |        |                                                  | 80     | 400    | 240    |        |
| 56591 | 56791, 56882        | 6575-64239 | 4850-47380 | 13  | 13-18   |                                  |        |                                                  | 125    | 430    | 260    | 24     |

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**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cassete no incluido / Cassete not included / Cassette non incluse

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Designación ATEX / ATEX marking / Marquage ATEX

II 2 G Ex c IIB T4

**REDUCTOR HEXAGONAL / HEX REDUCER / RÉDUCTEUR HEXAGONAL / HEX-REDUZIERER / RIDUTTORE ESAGONALE / REDUTOR HEXAGONAL / ШЕСТИГРАННЫЙ РЕДУКТОР**

| COD.  |              |                                                                                                                               |                                                                                                                                                                      |
|-------|--------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1XXYY | 56586        |                                                                                                                               |                                                                                                                                                                      |
| 2XXYY | 56573        | Medida del hexágono de la máquina (Tabla 2) / Machine hexagon size (Table 2) / Taille de l'hexagone de la machine (Tableau 2) | Medida de tuerca que se necesita apretar (Tabla 2) / Size of the hexagon of the nut to be tightened (Table 2) / Taille de l'hexagone de l'écrou à serrer (Tableau 2) |
| 3XXYY | 56587        |                                                                                                                               |                                                                                                                                                                      |
| 4XXYY | 56588        |                                                                                                                               |                                                                                                                                                                      |
| 5XXYY | 56589        |                                                                                                                               |                                                                                                                                                                      |
| 6XXYY | 56590, 56591 |                                                                                                                               |                                                                                                                                                                      |

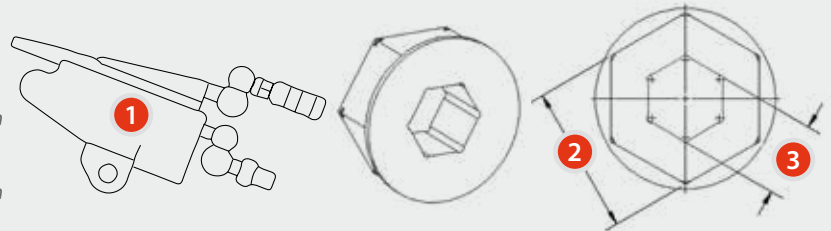


12M

**BE SAFE...BE EFFICIENT**

Para una correcta elección, es necesario definir los siguientes parámetros: / For a correct choice, it is necessary to define the following parameters: / Pour un choix correct, il est nécessaire de définir les paramètres suivants :

- 1 Grupo hex. reductor (según unidad de impulsión) / Hex reducer group (depending on the drive unit) / Groupe hex. réducteur (selon unité d'entraînement)
- 2 Medida del hexágono de entrada (XX) / Inlet hexagon size (XX) / Mesure de l'hexagone d'entrée (XX)
- 3 Medida del hexágono de salida (YY) / Outlet hexagon size (YY) / Mesure de l'hexagone de sortie (YY)



**EJEMPLO DE COMPOSICIÓN DE CÓDIGO / CODE CONSTRUCTION EXAMPLE / EXEMPLE DE COMPOSITION DE CODE / BEISPIEL FÜR CODEZUSAMMENSETZUNG / ESEMPIO DI COMPOSIZIONE DEL CODICE / EXEMPLO DE COMPOSIÇÃO DE CÓDIGO / ПРИМЕР СОПОСТАВЛЕНИЯ КОДА**



- 1 Unidad de impulsión **56587** TABLA 1 Grupo hex. reductor = **3**  
 Drive unit **56587** TABLE 1 Hex. reducer group = **3**  
 Unité d'impulsion **56587** TABLEAU 1 Groupe hex. réducteur = **3**
- 2 Cassete **56679** (60mm) TABLA 2 XX 60mm = **E4**  
 Hexagonal link **56679** (60mm) TABLE 2 XX 60mm = **E4**  
 Cassete **56679** (60mm) TABLEAU 2 XX 60mm = **E4**
- 3 Medida de tuerca TABLA 2 YY 50mm = **D6**  
 Nut size TABLE 2 YY 50mm = **D6**  
 Taille de l'écrou TABLEAU 2 YY 50mm = **D6**

**Cod.**  
**3E4D6**



Grupo hex. reductor  
 Hex. reducer group  
 Groupe hex. réducteur



Hex. entrada (XX)  
 Hex. In (XX)  
 Hex. entrée (XX)



Hex. salida (YY)  
 Hex. Out (YY)  
 Hex. sortie (YY)

**COMPROBACIÓN DEL CÓDIGO "TABLAS 2 Y 3" / VERIFICATION OF THE OBTAINED CODE "TABLES 2 AND 3" / VÉRIFICATION DU CODE "TABLEAUX 2 ET 3" / PRÜFEN DES CODES "TABELLEN 2 UND 3" / CONTROLLO DEL CODICE "TABELLE 2 E 3" / VERIFICANDO O CÓDIGO "TABELAS 2 E 3" / ПРОВЕРКА КОДА "ТАБЛИЦЫ 2 И 3"**

TABLA 3 / TABLE 3 / TABLEAU 3

| COD.         |       | (mm) | (inch) |       |    |              |
|--------------|-------|------|--------|-------|----|--------------|
| <b>56679</b> | 56587 | 60   | 2.3/8  | 3XXYY | E4 | <b>B6-E1</b> |



TABLA 2 / TABLE 2 / TABLEAU 2 **B6=1"** **E1=55mm**  
 (2.3/16")

**(YY) D6=50mm**  
 está dentro del rango / is inside the range / est dans la plage  
**B6-E1**  
**3E4D6 sería válido / is valid / serait valable**

**TABLAS DE SELECCIÓN DEL REDUCTOR HEXAGONAL / HEXAGONAL REDUCER SELECTION TABLES / TABLEUX DE SÉLECTION DES RÉDUCTEURS HEXAGONAUX / AUSWAHLTABELLEN FÜR SECHSKANT-REDUZIERER / TABELLE DI SELEZIONE DEL RIDUTTORE ESAGONALE / TABELAS DE SELEÇÃO DO REDUTOR HEXAGONAL / ТАБЛИЦЫ ДЛЯ ВЫБОРА ШЕСТИУГОЛЬНЫХ РЕДУКТОРОВ**

**UNIDAD DE IMPULSIÓN / DRIVE UNIT / UNITÉ D'IMPULSION / ANTRIEB / UNITÀ DISCO / UNIDADE DE IMPULSÃO / СИЛОВОЙ ПРИВОД**

**TABLA 1 / TABLE 1 / TABLEAU 1**

|   |  |  |
|---|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1 | 56586                                                                             | 1XXYY                                                                             |
| 2 | 56573                                                                             | 2XXYY                                                                             |
| 3 | 56587                                                                             | 3XXYY                                                                             |
| 4 | 56588                                                                             | 4XXYY                                                                             |
| 5 | 56589                                                                             | 5XXYY                                                                             |
| 6 | 56590 - 56591                                                                     | 6XXYY                                                                             |

**TABLA DE MEDIDAS DE REDUCTORES HEXAGONALES / HEXAGONAL REDUCERS MEASURES TABLE / TABLEAU DE MESURE DES RÉDUCTEURS HEXAGONAUX / TABELLE DER MASSE DER SECHSKANT-REDUZIERER / TABELLA DELLE MISURE DEI RIDUTTORI ESAGONALI / TABELA DE MEDIDAS DE REDUTORES HEXAGONAIS / ТАБЛИЦА РАЗМЕРОВ ШЕСТИУГОЛЬНЫХ РЕДУКТОРОВ**

**TABLA 2 / TABLE 2 / TABLEAU 2**

|    | (mm) | (inch)  |    | (mm) | (inch)  |    | (mm) | (inch)  |
|----|------|---------|----|------|---------|----|------|---------|
| A1 | -    | 1/2     | F4 | 75   | 2.15/16 | K7 | 140  | 5.1/2   |
| A2 | 13   | -       | F5 | -    | 3       | K8 | -    | 5.9/16  |
| A3 | -    | 9/16    | F6 | -    | 3.1/16  | K9 | -    | 5.5/8   |
| A4 | 14   | -       | F7 | -    | 3.1/8   | L1 | -    | 5.11/16 |
| A5 | -    | 5/8     | F8 | 80   | -       | L2 | 145  | -       |
| A6 | 15   | -       | F9 | -    | 3.3/16  | L3 | -    | 5.3/4   |
| A7 | 17   | -       | G1 | -    | 3.1/4   | L4 | -    | 5.13/16 |
| A8 | -    | 11/16   | G2 | -    | 3.5/16  | L5 | -    | 5.7/8   |
| A9 | 19   | 3/4     | G3 | 85   | -       | L6 | 150  | -       |
| B1 | -    | 13/16   | G4 | -    | 3.3/8   | L7 | -    | 5.15/16 |
| B2 | 21   | -       | G5 | -    | 3.7/16  | L8 | -    | 6       |
| B3 | 22   | 7/8     | G6 | -    | 3.1/2   | L9 | -    | 6.1/16  |
| B4 | -    | 15/16   | G7 | 90   | -       | M1 | 155  | -       |
| B5 | 24   | -       | G8 | -    | 3.9/16  | M2 | -    | 6.1/8   |
| B6 | -    | 1       | G9 | -    | 3.5/8   | M3 | -    | 6.3/16  |
| B7 | 27   | 1.1/16  | H1 | -    | 3.11/16 | M4 | -    | 6.1/4   |
| B8 | -    | 1.1/8   | H2 | 95   | 3.3/4   | M5 | 160  | -       |
| B9 | 30   | 1.3/16  | H3 | -    | 3.13/16 | M6 | -    | 6.5/16  |
| C1 | -    | 1.1/4   | H4 | -    | 3.7/8   | M7 | -    | 6.3/8   |
| C2 | 32   | -       | H5 | 100  | 3.15/16 | M8 | -    | 6.7/16  |
| C3 | -    | 1.5/16  | H6 | -    | 4       | M9 | 165  | 6.1/2   |
| C4 | 35   | 1.3/8   | H7 | -    | 4.1/16  | N1 | -    | 6.9/16  |
| C5 | 36   | -       | H8 | 105  | 4.1/8   | N2 | -    | 6.5/8   |
| C6 | -    | 1.7/16  | H9 | -    | 4.3/16  | N3 | 170  | 6.11/16 |
| C7 | 38   | 1.1/2   | I1 | -    | 4.1/4   | N4 | -    | 6.3/4   |
| C8 | -    | 1.9/16  | I2 | -    | 4.5/16  | N5 | -    | 6.13/16 |
| C9 | 41   | 1.5/8   | I3 | 110  | -       | N6 | -    | 6.7/8   |
| D1 | -    | 1.11/16 | I4 | -    | 4.3/8   | N7 | 175  | -       |
| D2 | -    | 1.3/4   | I5 | -    | 4.7/16  | N8 | -    | 6.15/16 |
| D3 | 46   | 1.13/16 | I6 | -    | 4.1/2   | N9 | -    | 7       |
| D4 | -    | 1.7/8   | I7 | 115  | -       | O1 | -    | 7.1/16  |
| D5 | 49   | 1.15/16 | I8 | -    | 4.9/16  | O2 | 180  | -       |
| D6 | 50   | -       | I9 | -    | 4.5/8   | O3 | -    | 7.1/8   |
| D7 | -    | 2       | J1 | -    | 4.11/16 | O4 | -    | 7.3/16  |
| D8 | -    | 2.1/16  | J2 | 120  | -       | O5 | -    | 7.1/4   |
| D9 | -    | 2.1/8   | J3 | -    | 4.3/4   | O6 | 185  | -       |
| E1 | 55   | 2.3/16  | J4 | -    | 4.13/16 | O7 | -    | 7.5/16  |
| E2 | -    | 2.1/4   | J5 | -    | 4.7/8   | O8 | -    | 7.3/8   |
| E3 | -    | 2.5/16  | J6 | 125  | -       | O9 | -    | 7.7/16  |
| E4 | 60   | 2.3/8   | J7 | -    | 4.15/16 | P1 | 190  | -       |
| E5 | -    | 2.7/16  | J8 | -    | 5       | P2 | -    | 7.1/2   |
| E6 | -    | 2.1/2   | J9 | -    | 5.1/16  | P3 | -    | 7.9/16  |
| E7 | 65   | 2.9/16  | K1 | 130  | 5.1/8   | P4 | -    | 7.5/8   |
| E8 | -    | 2.5/8   | K2 | -    | 5.3/16  | P5 | 195  | 7.11/16 |
| E9 | -    | 2.11/16 | K3 | -    | 5.1/4   | P6 | -    | 7.3/4   |
| F1 | 70   | 2.3/4   | K4 | 135  | 5.5/16  | P7 | -    | 7.13/16 |
| F2 | -    | 2.13/16 | K5 | -    | 5.3/8   | P8 | 200  | 7.7/8   |
| F3 | -    | 2.7/8   | K6 | -    | 5.7/16  |    |      |         |





| COD.  |              | (mm) | (inch)  |    |       |  |
|-------|--------------|------|---------|----|-------|--|
| 56801 |              |      | 3.9/16  | G8 | F7-G4 |  |
| 56802 |              | -    | 3.5/8   | G9 | F7-G5 |  |
| 56803 |              |      | 3.11/16 | H1 | F7-G6 |  |
| 56804 |              | 95   | 3.3/4   | H2 | F7-G8 |  |
| 56805 |              |      | 3.13/16 | H3 | F7-G9 |  |
| 56806 |              |      | 3.7/8   | H4 | F7-H1 |  |
| 56807 |              | 100  | 3.15/16 | H5 | F7-H2 |  |
| 56808 |              |      | 4       | H6 | F7-H3 |  |
| 56809 |              |      | 4.1/16  | H7 | F7-H4 |  |
| 56810 |              | 105  | 4.1/8   | H8 | F7-H5 |  |
| 56811 |              |      | 4.3/16  | H9 | F7-H6 |  |
| 56812 |              |      | 4.1/4   | I1 | F7-H7 |  |
| 56813 |              |      | 4.5/16  | I2 |       |  |
| 56814 |              | 110  | -       | I3 | F7-H8 |  |
| 56815 |              |      | 4.3/8   | I4 | F7-H9 |  |
| 56816 |              |      | 4.7/16  | I5 | F7-I1 |  |
| 56817 |              |      | 4.1/2   | I6 | F7-I2 |  |
| 56818 |              | 115  | -       | I7 | F7-I3 |  |
| 56819 |              |      | 4.9/16  | I8 | F7-I4 |  |
| 56820 |              |      | 4.5/8   | I9 | F7-I5 |  |
| 56821 |              |      | 4.11/16 | J1 | F7-I6 |  |
| 56822 |              | 120  | -       | J2 | F7-I7 |  |
| 56823 |              |      | 4.3/4   | J3 | F7-I8 |  |
| 56824 |              |      | 4.13/16 | J4 | F7-I9 |  |
| 56825 |              |      | 4.7/8   | J5 | F7-J1 |  |
| 56826 |              | 125  | -       | J6 | F7-J2 |  |
| 56827 |              |      | 4.15/16 | J7 | F7-J3 |  |
| 56828 |              |      | 5       | J8 | F7-J4 |  |
| 56829 |              |      | 5.1/16  | J9 | F7-J5 |  |
| 56830 | 56590, 56591 | 130  | 5.1/8   | K1 | F7-J7 |  |
| 56831 |              |      | 5.3/16  | K2 | F7-J8 |  |
| 56832 |              |      | 5.1/4   | K3 | F7-J9 |  |
| 56833 |              | 135  | 5.5/16  | K4 | F7-K1 |  |
| 56834 |              |      | 5.3/8   | K5 | F7-K2 |  |
| 56835 |              |      | 5.7/16  | K6 | F7-K3 |  |
| 56836 |              | 140  | 5.1/2   | K7 | F7-K4 |  |
| 56837 |              |      | 5.9/16  | K8 | F7-K5 |  |
| 56838 |              |      | 5.5/8   | K9 | F7-K6 |  |
| 56839 |              |      | 5.11/16 | L1 |       |  |
| 56840 |              | 145  | -       | L2 | F7-K7 |  |
| 56841 |              |      | 5.3/4   | L3 | F7-K8 |  |
| 56842 |              |      | 5.13/16 | L4 | F7-K9 |  |
| 56843 |              |      | 5.7/8   | L5 | F7-L1 |  |
| 56844 |              | 150  | -       | L6 | F7-L2 |  |
| 56845 |              |      | 5.15/16 | L7 | F7-L3 |  |
| 56846 |              |      | 6       | L8 | F7-L4 |  |
| 56847 |              |      | 6.1/16  | L9 | F7-L5 |  |
| 56848 |              | 155  | -       | M1 | F7-L6 |  |
| 56849 |              |      | 6.1/8   | M2 | F7-L7 |  |
| 56850 |              |      | 6.3/16  | M3 | F7-L8 |  |
| 56851 |              |      | 6.1/4   | M4 | F7-L9 |  |
| 56852 |              | 160  | -       | M5 | F7-M1 |  |
| 56853 |              |      | 6.5/16  | M6 | F7-M2 |  |
| 56854 |              |      | 6.3/8   | M7 | F7-M3 |  |
| 56855 |              |      | 6.7/16  | M8 | F7-M4 |  |
| 56856 |              | 165  | 6.1/2   | M9 | F7-M6 |  |
| 56857 |              |      | 6.9/16  | N1 | F7-M7 |  |
| 56858 |              |      | 6.5/8   | N2 | F7-M8 |  |
| 56859 |              | 170  | 6.11/16 | N3 | F7-M9 |  |

| COD.  |              | (mm) | (inch)  |    |       |  |
|-------|--------------|------|---------|----|-------|--|
| 56860 |              |      | 6.3/4   | N4 | F7-N1 |  |
| 56861 |              |      | 6.13/16 | N5 | F7-N2 |  |
| 56862 |              |      | 6.7/8   | N6 |       |  |
| 56863 |              | 175  | -       | N7 | F7-N3 |  |
| 56864 |              |      | 6.15/16 | N8 | F7-N4 |  |
| 56865 |              |      | 7       | N9 | F7-N5 |  |
| 56866 |              |      | 7.1/16  | O1 | F7-N6 |  |
| 56867 |              | 180  | -       | O2 | F7-N7 |  |
| 56868 |              |      | 7.1/8   | O3 | F7-N8 |  |
| 56869 |              |      | 7.3/16  | O4 | F7-N9 |  |
| 56870 |              |      | 7.1/4   | O5 | F7-O1 |  |
| 56871 | 56590, 56591 | 185  | -       | O6 | F7-O2 |  |
| 56872 |              |      | 7.5/16  | O7 | F7-O3 |  |
| 56873 |              |      | 7.3/8   | O8 | F7-O4 |  |
| 56874 |              |      | 7.7/16  | O9 | F7-O5 |  |
| 56875 |              | 190  | -       | P1 | F7-O6 |  |
| 56876 |              |      | 7.1/2   | P2 | F7-O7 |  |
| 56877 |              |      | 7.9/16  | P3 | F7-O8 |  |
| 56878 |              |      | 7.5/8   | P4 | F7-O9 |  |
| 56879 |              | 195  | 7.11/16 | P5 | F7-P2 |  |
| 56880 |              |      | 7.3/4   | P6 | F7-P3 |  |
| 56881 |              |      | 7.13/16 | P7 | F7-P4 |  |
| 56882 |              | 200  | 7.7/8   | P8 | F7-P5 |  |

I 12M

ESPECIFICACIONES / SPECIFICATION / DÉTAILS

Designación ATEX / ATEX marking /  
Marquage ATEX

II 2 G Ex c IIB T4

**BOMBAS HIDRÁULICAS / HYDRAULIC POWER UNIT PUMP / POMPES HYDRAULIQUES / HYDRAULISCHE PUMPE / POMPE IDRAULICHE / BOMBAS HIDRÁULICAS / ГИДРАВЛИЧЕСКАЯ СТАНЦИЯ**

Las bombas hidráulicas de EGA Master han sido diseñadas de acuerdo a las necesidades del usuario final. Disponibles para el funcionamiento con una única herramienta o con hasta cuatro herramientas simultáneamente, estas bombas están fabricadas para trabajar en entornos adversos, y permiten el ajuste de la presión deseada para garantizar la salida de par correcta a su aplicación.

Además de las bombas de accionamiento eléctrico (115VAC o 230VAC), EGA Master ofrece bombas de accionamiento neumático para ambientes explosivos o en aplicaciones donde la electricidad esté inaccesible.

*EGA Master's hydraulic power unit pumps have been designed according to the needs of the end user. They enable simultaneous use of four wrenches. EGA Master power units are manufactured to work in adverse environments, allowing pressure adjustment to assure the correct torque output to each application.*

*In addition to the electric drive hydraulic pumps (115VAC or 230VAC), EGA Master provides air drive hydraulic pumps to use them in explosive environments or in applications where the electricity is not available.*

Les pompes hydrauliques d'EGA Master ont été conçues selon les nécessités de l'utilisateur final. Disponibles pour le fonctionnement avec un seul outil ou même quatre outils simultanément, ces pompes sont fabriquées pour travailler dans des environnements adverses, et permettent l'ajustement de la pression désirée pour garantir la sortie correcte de couple pendant son application.

En plus des pompes d'actionnement électrique (115VAC o 230VAC), EGA Master offre des pompes d'actionnement pneumatique pour des environnements explosifs ou dans des applications où l'électricité est inaccessible.

**DE ACCIONAMIENTO ELÉCTRICO / ELECTRIC DRIVE / D'ACCIONNEMENT ÉLECTRIQUE / ELECTRISCHE ANTRIEB / AVVIAMENTO ELETTRICO / DE ACCIONAMENTO ELÉCTRICO / ГИДРАВЛИЧЕСКАЯ СТАНЦИЯ С ЭЛЕКТРОПРИВОДОМ**

| COD.  | kW  | V       | CAP.<br>L |
|-------|-----|---------|-----------|
| 56888 | 0,8 | 115 VAC | 5,5       |
| 56889 |     | 230 VAC |           |

CE | 12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                        |                                                 |
|----------------------------------------------------------------------------------------|-------------------------------------------------|
| Puertos / Ports / Ports                                                                | 1                                               |
| Para uso con / For use with / Pour utilisation avec                                    | 56572, 56573, 56578, 56579, 56586, 56587, 56588 |
| Caudal / Flow rate / Débit                                                             | 8,6l/min. @ 75 bar / 0,75l/min @ 700 bar        |
| Botón de control de presión / Pressure control button / Bouton de contrôle de pression | ●                                               |
| Mando de control remoto (4 m) / Remote pendant (4 m) / Commande à distance (4 m)       | ●                                               |
| Manguera hidráulica doble / Tinline Hydraulic hose / Tuyau hydraulique double          | 4,5 m                                           |
| Peso sin aceite / Weight without oil / Poids sans huile                                | 22 Kg                                           |



| COD.  | kW  | V       | CAP.<br>L |
|-------|-----|---------|-----------|
| 56885 | 1,1 | 115 VAC | 5,5       |
| 56575 |     | 230 VAC |           |
| 56886 |     | 115 VAC | 7,5       |
| 56887 |     | 230 VAC |           |

CE | 12M


**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                        |                                                                                                  |
|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Puertos / Ports / Ports                                                                |                                                                                                  |
|                                                                                        | 56885 1                                                                                          |
|                                                                                        | 56575 1                                                                                          |
|                                                                                        | 56886 4                                                                                          |
|                                                                                        | 56887 4                                                                                          |
| Para uso con / For use with / Pour utilisation avec                                    | 56572, 56573, 56578, 56579, 56580, 56581, 56582, 56583, 56586, 56587, 56588, 56589, 56590, 56591 |
| Caudal / Flow rate / Débit                                                             | 11,5l/min. @ 75 bar / 0,9l/min @ 700 bar                                                         |
| Botón de control de presión / Pressure control button / Bouton de contrôle de pression | ●                                                                                                |
| Mando de control remoto (4 m) / Remote pendant (4 m) / Commande à distance (4 m)       | ●                                                                                                |
| Manguera hidráulica doble / Tinline Hydraulic hose / Tuyau hydraulique double          | 4,5 m                                                                                            |
| Peso sin aceite / Weight without oil / Poids sans huile                                |                                                                                                  |
|                                                                                        | 56885 29 Kg                                                                                      |
|                                                                                        | 56575 29 Kg                                                                                      |
|                                                                                        | 56886 30 Kg                                                                                      |
|                                                                                        | 56887 30 Kg                                                                                      |





**DE ACCIONAMIENTO NEUMÁTICO / AIR DRIVE / D'ACCIONNEMENT PNEUMATIQUE / PNEUMATISCHER ANTRIEB / AVVIAMENTO PNEUMATICO / DE ACCIONAMIENTO PNEUMÁTICO / ГИДРАВЛИЧЕСКАЯ СТАЦИЯ С ПНЕВМОПРИВОДОМ**

| COD.         | kW  |  |
|--------------|-----|-----------------------------------------------------------------------------------|
| <b>56890</b> | 4,5 | 7,5                                                                               |
| <b>56891</b> |     |                                                                                   |



CE I 12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                        |                                                                                                  |
|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Puertos / Ports / Ports                                                                |                                                                                                  |
|                                                                                        | <b>56890</b> 1                                                                                   |
|                                                                                        | <b>56891</b> 4                                                                                   |
| Para uso con / For use with / Pour utilisation avec                                    | 56572, 56573, 56578, 56579, 56580, 56581, 56582, 56583, 56586, 56587, 56588, 56589, 56590, 56591 |
| Caudal / Flow rate / Débit                                                             | 11,5l/min. @ 75 bar / 0,9l/min @ 700 bar                                                         |
| Botón de control de presión / Pressure control button / Bouton de contrôle de pression | •                                                                                                |
| Mando de control remoto (4 m) / Remote pendant (4 m) / Commande à distance (4 m)       | •                                                                                                |
| Manguera hidráulica doble / Twinline Hydraulic hose / Tuyau hydraulique double         | 4,5 m                                                                                            |
| Peso sin aceite / Weight without oil / Poids sans huile                                | 33 Kg                                                                                            |




**ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

| COD.         | Descripción / Description / Description                                          |  |  |
|--------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>56892</b> |                                                                                  | 4,5                                                                                  |                                                                                      |
| <b>56894</b> | Manguera hidráulica bitubo / Dual hydraulic hose / Tuyau hydraulique multicouche | 6                                                                                    | 4,0                                                                                  |
| <b>56898</b> |                                                                                  | 9                                                                                    | 5,0                                                                                  |

12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                       |                                                        |
|---------------------------------------|--------------------------------------------------------|
| Para bombas / For pumps / Pour pompes | 56888, 56889, 56885, 56575, 56886, 56887, 56890, 56891 |
|---------------------------------------|--------------------------------------------------------|

| COD.         | Descripción / Description / Description                          |  |
|--------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>56893</b> | Colector de 4 puertos / 4 ports manifold / Collecteur de 4 ports | 4,0                                                                                 |

12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                       |                     |
|---------------------------------------|---------------------|
| Para bombas / For pumps / Pour pompes | 56885, 56575, 56890 |
|---------------------------------------|---------------------|



**BE SAFE...BE EFFICIENT**

**BOMBAS HIDRÁULICAS ATEX / ATEX HYDRAULIC POWER UNIT PUMP / POMPES HYDRAULIQUES ATEX / HYDRAULISCHE PUMPE ATEX / POMPE IDRAULICHE ATEX / BOMBAS HIDRÁULICAS ATEX / ГИДРАВЛИЧЕСКАЯ СТАНЦИЯ ATEX**

**DE ACCIONAMIENTO ELÉCTRICO / ELECTRIC DRIVE / D'ACCIONNEMENT ÉLECTRIQUE / ELECTRISCHE ANTRIEB / AVVIAMENTO ELETTRICO / DE ACCIONAMENTO ELÉCTRICO / ГИДРАВЛИЧЕСКАЯ СТАНЦИЯ С ЭЛЕКТРОПРИВОДОМ**

La bomba hidráulica ATEX EGA Master 76757 no solo aporta las mejores prestaciones en cuanto a presión y caudal para un trabajo rápido y ergonómico, sino que asegura el cumplimiento de las medidas de seguridad exigidas por la Directiva 2014/34/UE para ambientes explosivos.

*The EGA Master ATEX hydraulic power unit pump 76757, not only provides the best features in terms of pressure and flow for a quick an ergonomic work, but also ensures the fulfilment of the safety measures required by 2014/34/UE Directive for explosive environments.*

La pompe hydraulique ATEX EGA Master 76757 non seulement proportionne les meilleures performances en termes de pression et de débit pour un travail rapide et ergonomique, mais elle assure également l'accomplissement des mesures de sécurité requises par la directive 2014/34/UE pour les environnements explosifs.

|                                                                                 |                                         |
|---------------------------------------------------------------------------------|-----------------------------------------|
| <b>COD.</b>                                                                     | <b>76757</b>                            |
| <b>Ex</b> <b>CE</b>   12M                                                       |                                         |
| <b>CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES</b>                            |                                         |
| Accesorios no incluidos / Accessories not included / Accessoires non inclus     |                                         |
| <b>ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES</b> |                                         |
| Tipo / Type / Type                                                              | Hidráulico / Hydraulic / Hudraulique    |
| Voltaje / Voltage / Voltage                                                     | 400 V                                   |
| Potencia / Power / Puissance                                                    | 1,1 kW                                  |
| Capacidad / Capacity / Capacité                                                 | 10 L                                    |
| Caudal / Flow rate / Débit                                                      | 7,5l/min. @ 70 bar / 0,9l/min @ 700 bar |
| Puertos / Ports / Ports                                                         | 4                                       |
| Designación ATEX / ATEX marking / Marquage ATEX                                 | Ⓜ II 2G Ex IIB T3 Gb X                  |



**ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

| COD.         | Descripción / Description / Description    | Conexión / Connection / Connexion |      |
|--------------|--------------------------------------------|-----------------------------------|------|
| <b>79999</b> | Manguera bitubo / Twin hose / Tuyau bitube | 1/4"                              | 10 m |
| 12M          |                                            |                                   |      |



**ACEITE HIDRÁULICO / HYDRAULIC OIL / HUILE HYDRAULIQUE / HYDRAULISCHES ÖL / OLIO IDRAULICO / ÓLEO HIDRÁULICO / ГИДРАВЛИЧЕСКОЕ МАСЛО**

| COD.                                                                            |                                                               |    |
|---------------------------------------------------------------------------------|---------------------------------------------------------------|----|
| <b>79815</b>                                                                    | 20                                                            | 17 |
| <b>ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES</b> |                                                               |    |
| Para bombas / For pumps / Pour pompes                                           | 56888, 56889, 56885, 56575, 56886, 56887, 56890, 56891, 76757 |    |



**ROMPETUERCAS HIDRÁULICO / HYDRAULIC NUT SPLITTER / CASSE-ÉCROU HYDRAULIQUE / HYDRAULIK MUTTERZERSTÖRER / SPACCADADI IDRAULICO / PARTE PORCAS HIDRÁULICO / ГИДРАВЛИЧЕСКИЙ РАЗРУШИТЕЛЬ ГАЕК**

Los rompetuercas de EGA Master han sido diseñados para extraer tuercas oxidadas o atoradas de manera rápida y eficaz.

Es una herramienta exclusiva con un cabezal diseñado para acceder fácilmente a la tuerca, equipada con una cuchilla de alta precisión y concebida para una vida prolongada, pudiendo ser rectificada o sustituida con rapidez.

EGA Master ofrece una gama de rompetuercas que permiten extraer tuercas hexagonales con distancia entre caras 10-41 mm.

*EGA Master's hydraulic nut splitters have been designed for removal rusted or stuck nuts quickly and effectively.*

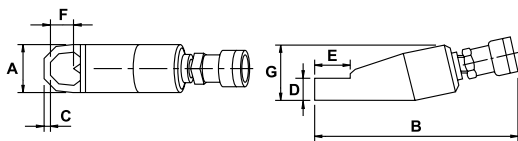
*It is a unique tool with a head designed to access easily to the nut, equipped with a high-precision blade and designed for a long life; it can be rectified or replaced quickly.*

*EGA Master offers a range of hydraulic tools which can remove hexagonal nuts whose across flat distance is between 10 to 41 mm.*

Les casse-écrous EGA Master sont conçus pour extraire des écrous oxydés ou bouchés de manière rapide et efficace.

C'est un outil exclusif à tête conçue pour avoir accès rapide à l'écrou, équipé d'une lame de haute précision et conçu pour une durée de vie plus longue, avec la possibilité d'être changée ou substituée avec rapidité.

EGA Master offre une gamme de casse-écrous qui permet d'extraire des écrous hexagonaux dont la distance entre les faces est de 10-41 mm.



| COD.  | M       | AF mm | TONS. | GAP cm <sup>3</sup> | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) |
|-------|---------|-------|-------|---------------------|--------|--------|--------|--------|--------|--------|--------|
| 57496 | M6-M12  | 10-19 | 5     | 15                  | 45     | 190    | 10     | 20     | 32     | 20     | 55     |
| 57497 | M12-M16 | 19-24 | 10    | 20                  | 52     | 214    | 10     | 26     | 40     | 27     | 65     |
| 57498 | M16-M22 | 24-32 | 15    | 60                  | 62     | 240    | 13     | 30     | 55     | 36     | 80     |
| 57502 | M22-M27 | 32-41 | 20    | 80                  | 73     | 268    | 17     | 36     | 67     | 44     | 90     |

12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Peso con aceite / Weight with oil / Poids avec huile

57496 1,5 Kg

57497 2 kg

57498 3 Kg

57502 4,5 Kg

Válvula de seguridad interna / Internal safety valve / Valve de sécurité interne

•

Cilindro de retroceso con resorte / Spring return cylinder / Cylindre de recul avec ressort

•

No utilizar con tuercas cuadradas / Not to be used on square nuts / Ne pas utiliser avec des écrous carrés

•

Máxima dureza a cortar / Maximum hardness to split / Dureté max de coupe

44 HRC

Máxima presión de trabajo / Maximum operating pressure / Pression max de travail

700 bar / 10,000 psi

Conexión / Connection / Connexion

Acople rápido, métrica 16 x 1,5 mm / Quick coupler, metric 16 x 1,5 mm / Couplage rapide, métrique 16 x 1,5 mm



**SEPARADOR DE BRIDAS HIDRÁULICO / HYDRAULIC FLANGE SPREADERS / SÉPARATEUR DE BRIDES HYDRAULIQUE / HYDRAULIK FLANSCHSPREIZER / SEPARATORE DI FASCETTE IDRAULICO / SEPARADOR DE FLANGES HIDRÁULICO / ГИДРАВЛИЧЕСКИЙ РАЗБРАСЫВАТЕЛЬ ФЛАНЦА**

Los separadores hidráulicos de EGA Master han sido diseñados para facilitar al operario el mantenimiento de las bridas de las tuberías de forma segura.

Gracias a la cuña de separación, los separadores hidráulicos de EGA Master tienen una fuerza de separación de hasta 14 toneladas, con cilindro compacto, proporcionando una apertura suave y uniforme de la brida.

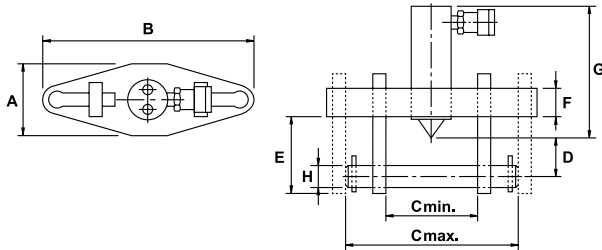
*EGA Master's hydraulic flange spreaders have been designed to provide securely the pipe flange maintenance to the operator.*

*Thanks to the spreaders wedge, EGA Master's hydraulic flange spreaders have a spreading force up to 14 tons, with compact cylinder providing a soft and uniform opening flange.*

Les séparateurs hydrauliques EGA Master sont conçus pour faciliter à l'ouvrier la maintenance des brides de tubes de manière sûre.

Grâce au coin de séparation, les séparateurs hydrauliques EGA Master ont une force de séparation qui arrive jusqu'à 10 tonnes, avec cylindre compacte, proportionnant une ouverture de la bride douce et uniforme.

**CON PASADOR / WITH STUD / AVEC GOUPILLE / MIT STIFT / CON PERNO / COM PASSADOR / С ЗАКЛЁПКОЙ**



| COD.  | Max. Max | mm     | TONS. | A (mm) | B (mm) | C min. (mm) | C max. (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | CAP. cm³ |
|-------|----------|--------|-------|--------|--------|-------------|-------------|--------|--------|--------|--------|--------|----------|
|       |          |        |       |        |        |             |             |        |        |        |        |        |          |
| 57522 | 2 x 57   | 1,5-34 | 5     | 75     | 210    | 70          | 150         | 30     | 90     | 25     | 155    | 18     | 200      |
| 57507 | 2 x 85   | 3-43   | 10    | 110    | 280    | 105         | 210         | 45     | 115    | 38     | 205    | 27     |          |

12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Peso con aceite / Weight with oil / Poids avec huile

57522 5 Kg

57507 12 Kg

Tamaño del pasador / Stud size / Dimensions de la goupille

57522 18 mm

57507 27 mm

Carrera / Stroke / Parcours

57522 38 mm

57507 54 mm

Válvula de seguridad interna / Internal safety valve / Valve de sécurité interne

•

Cilindro de retroceso con resorte / Spring return cylinder / Cylindre de recul avec ressort

•

Máxima presión de trabajo / Maximum operating pressure / Pression max de travail

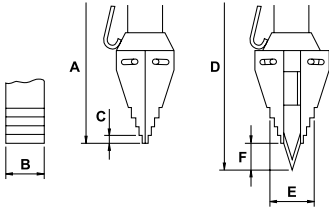
700 bar / 10,000 psi




Conexión / Connection / Connexion

Acople rápido con rosca, 1" UNS / Quick coupler screw type, 1" UNS / Couplage rapide filetage, 1" UNS



■ **ESCALONADO / STEPPED / ÉCHELONNÉ / STUFENFORMIG / SVASATORE / ESCALONADO / СТУПЕНЧАТЫЙ**

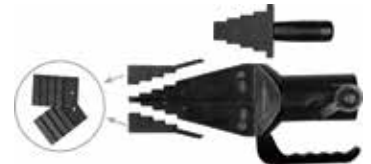


| COD.         |  |  | TONS. |  | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|
| <b>57524</b> | 6                                                                                 | 75                                                                                | 14    | 78                                                                                | 290    | 65     | 15     | 320    | 60     | 35     |

12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                             |                                                                                                       |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Peso con aceite / Weight with oil / Poids avec huile                                        | 7,1 Kg                                                                                                |
| Bloques escalonados / Stepped blocks / Blocs échelonnés                                     | 2 pcs                                                                                                 |
| Bloques de seguridad / Safety block / Bloc de sécurité                                      | 1 pc                                                                                                  |
| Válvula de seguridad interna / Internal safety valve / Valve de sécurité interne            | ●                                                                                                     |
| Cilindro de retroceso con resorte / Spring return cylinder / Cylindre de recul avec ressort | ●                                                                                                     |
| Máxima presión de trabajo / Maximum operating pressure / Pression max de travail            | 700 bar / 10,000 psi                                                                                  |
| Conexión / Connection / Connexion                                                           | Acople rápido con rosca, 1" UNS / Quick coupler screw type, 1" UNS / Couplage rapide filetage, 1" UNS |



■ **BOMBAS HIDRÁULICAS MANUALES / MANUAL HYDRAULIC PUMP / POMPES HYDRAULIQUES MANUELLES / MANUELLE HYDRAULIK PUMPE / POMPA IDRAULICA MANUALE / BOMBAS HIDRÁULICAS MANUAIS / НАСОС РУЧНОЙ ГИДРАВЛИЧЕСКИЙ**

Las bombas hidráulicas manuales de EGA Master han sido diseñadas para trabajar a una presión máxima de trabajo de 700bar, fabricadas en acero para alargar su vida útil.

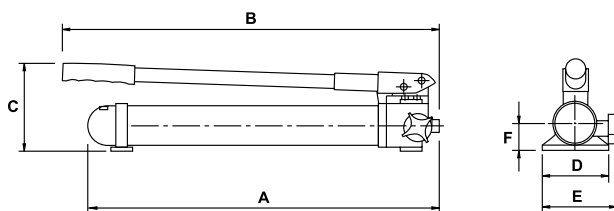
Las bombas hidráulicas manuales de EGA Master incorporan una válvula interna de alivio de presión para dar seguridad al operario y a la bomba en caso de sobrecargas por encima de 700 bar.


EGA Master's manual hydraulic pumps have been designed to work to maximum working pressure of 700bar, made of steel to extend its life.

Manual hydraulic pumps of EGA Master incorporate an internal safety valve to provide security of the operator and pump in case of over pressurisation above 700 bar.

Les pompes hydrauliques manuelles EGA Master sont conçues pour travailler à une pression maximale de 700bar, faites en acier pour prolonger sa vie utile.

Les pompes hydrauliques manuelles EGA Master incorporent une valve de surpression intérieure pour la sécurité de l'ouvrier et de la pompe en cas de surcharge supérieure à 700 bar.



| COD.         |  | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) |
|--------------|-------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|
| <b>57504</b> | 700                                                                                 | 550    | 550    | 150    | 130    | 150    | 50     |
| <b>57505</b> | 2700                                                                                | 600    | 650    | 200    | 135    |        |        |

12M



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                            |                                                                                                                   |
|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Para uso con / For use with / Pour utilisation avec                                        | 57496, 57497, 57498, 57502, 57522, 57507, 57524                                                                   |
| Peso con aceite / Weight with oil / Poids avec huile                                       |                                                                                                                   |
|                                                                                            | 57504 10 Kg                                                                                                       |
|                                                                                            | 57505 14 Kg                                                                                                       |
| Manguera hidráulica / Hydraulic hose / Tuyau hydraulique                                   | 1,5 m                                                                                                             |
| Válvula de seguridad interna / Internal safety valve / Valve de sécurité interne           | ●                                                                                                                 |
| Tipo de bomba / Bomb type / Type de pompe                                                  |                                                                                                                   |
|                                                                                            | 57504 1-VELO                                                                                                      |
|                                                                                            | 57505 2-VELO                                                                                                      |
| Máxima presión de trabajo / Maximum operating pressure / Pression max de travail           | 700 bar / 10,000 psi                                                                                              |
| Fuerza máxima de bombeo / Maximum pumping force / Force maximale du pompage                | 35 Kg                                                                                                             |
| Válvula externa de alivio / External pressure release valve / Valve de surpression externe | ●                                                                                                                 |
| Conexión / Connection / Connexion                                                          | Acople rápido, métrica 16 x 1,5 mm / Quick coupler, metric 16 x 1,5 mm /<br>Couplage rapide, métrique 16 x 1,5 mm |
| Rosca / Thread / Filet                                                                     | 1/4"                                                                                                              |



12

HERRAMIENTA NEUMÁTICA  
PNEUMATIC TOOLS  
OUTIL PNEUMATIQUE  
PNEUMATISCHE WERKZEUGE  
UTENSILE PNEUMATICI  
FERRAMENTA PNEUMÁTICA  
ПНЕВМОИНСТРУМЕНТЫ



Las llaves de impacto neumáticas EGA Master están diseñadas para ofrecer un alto par de salida con un esfuerzo mínimo para el usuario, en campos como pueden ser reparación de automóviles, equipo pesado de mantenimiento, montaje de productos principales de construcción y para el lugar donde se precise una gran capacidad de par.

*EGA Master pneumatic impact wrenches are designed to deliver high torque output with minimal exertion by the user, in fields such as automotive repair, heavy equipment maintenance, product assembly major construction, and for any place where a high torque output is needed.*

Les clés à choc pneumatiques EGA Master sont conçues pour offrir une grande paire de sortie avec l'effort le plus minime pour l'utilisateur, dans les domaines tels que la réparation automobiles, les équipements lourd d'entretien, le montage de produits principaux de construction, et pour tous ceux qui nécessitent une grande capacité de paire.



**1** Motor diseñado para prevenir pérdidas de aire.  
*Motor designed to prevent power losses.*  
Moteur conçu pour prévoir les pertes d'air.

**2** Rotor con muelle, el cual ofrece un alto potencial de salida.  
*Rotor with spring which offers high power output.*  
Rotor avec ressort qui offre un grand potentiel de sortie.

**3** Cuerpo ultra-ligero fabricado en composite.  
*Composite and lightweight housing.*  
Corps ultraléger fabriqué en composite.

**4** Válvula especial One-piece diseñada para facilitar su mantenimiento.  
*Special One-piece Valve designed for easy maintenance.*  
Soupape spéciale One-Piece conçue pour faciliter son entretien.

**5** Entrada de aire rotatoria 360°.  
*360° Swivel Air Inlet.*  
Entrée d'air rotatif 360°.

**6** Silencioso - bajo nivel sonoro.  
*Low-noise.*  
Silence - faible niveau sonore.

**7** Pulsador de alta sensibilidad para un suave funcionamiento.  
*High sensitive trigger for smooth operation.*

Bouton à haute sensibilité pour un fonctionnement doux.

**8** Mecanismo de golpe de doble martillo de alto rendimiento.  
*High performance twin hammer mechanism.*

Mécanisme de coup de double marteau d'haute rendement.

**9** Facilidad de cambio de dirección.  
*Easy change direction.*  
Facilité de changement de direction.

**10** Conocimiento de par de apriete exacto en cada posición.  
*Exact tightening torque in each position.*

Connaissance du couple de serrage exact à chaque position.



- Excelente potencia / *Excellent power* / Excellente puissance
- Alta duración / *High life* / Longue durée
- Especialmente diseñado para uso industrial en automoción  
*Specially designed for industrial use in automotive service*  
Spécialement conçu pour usage industriel pour l'automobile





■ **ENSAMBLAJE / ASSEMBLY TOOLS / ASSEMBLAGE / MONTAGEWERKZEUGE / ASSEMBLAGGIO / MONTAGEM / СБОРКА**

**LLAVE DE IMPACTO CON CONTROL DE PAR / IMPACT WRENCH WITH TORQUE CONTROL / CLE À CHOC AVEC CONTRÔLE DE COUPLE / SCHLAGSCHRAUBER MIT DREHMOMENTKONTROLLE / AVVITATORE AD IMPULSI CON CONTROLLO DELLA COPPIA / CHAVE DE IMPACTO COM CONTROLO DE PAR / УДАРНЫЙ ПИСТОЛЕТ С КОНТРОЛЕМ МОМЕНТА ЗАТЯЖКИ**

| COD.         |  | R.P.M. | Nm/Lb.ft           | L (mm) |  |
|--------------|-----------------------------------------------------------------------------------|--------|--------------------|--------|-------------------------------------------------------------------------------------|
| <b>57667</b> | 1/2                                                                               | 7500   | 165 Nm / 120 ft-lb | 197    | 2,2                                                                                 |

**COMPOSITE I 12M**



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                               |                                            |
|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Max. Par ajuste / Max. Tightening torque / Max. Paire réglage                                                                 | 165 Nm/120 ft-lb                           |
| Pérdida max. de par / Max. Loosening torque / Perte max. de paire                                                             | 880 Nm                                     |
| Posiciones de ajuste predeterminadas / Default torque positions / Positions d'ajustement prédéterminées                       | 4 + Retroceso / 4 + Reverse / 4 + Recul    |
| Par exacto de apriete en cada posición / Exact tightening torque in each position / Couple de serrage exact à chaque position | (90-110-135-165 Nm), (65-80-100-120 ft-lb) |
| Consumo medio de aire / Air consumption / Consommation d'air                                                                  | 132 l/min                                  |
| Entrada de aire / Air inlet / Entrée d'air                                                                                    | 1/4"                                       |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore                                                    | 86,4dBA                                    |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore                                                     | 97,4 dBA                                   |
| Vibración / Vibration / Vibration                                                                                             | 5,8 m/s <sup>2</sup>                       |
| Presión de trabajo / Working pressure / Pression de travail                                                                   | 6,3 bar / 90 PSI                           |
| Precisión / Accuracy / Précision                                                                                              | ±10%                                       |
| Estructura de composite / Composite housing / Structure de composite                                                          | ●                                          |
| Mecanismo de golpeo doble martillos / Twin hammer mechanism / Mécanisme de coup de double marteaux                            | ●                                          |
| Facilidad cambio dirección / Easy change direction / Facilité de changement de direction                                      | ●                                          |
| Entrada de aire rotatoria 360° / 360° Swivel Air Inlet / Entrée d'air rotatif 360°                                            | ●                                          |
| Modelo ultraligero / Light weight model / Modèle ultraléger                                                                   | ●                                          |



Vasos de impacto - Cuadrado 1/2", 3/8", 1/4" y 1" - Ver capítulo de Llaves de vaso.  
 Impact socket wrenches - 1/2", 3/8", 1/4" and 1" Sq. Drive - See Socket wrenches chapter.  
 Douilles à choc - Carrée de 1/2", 3/8", 1/4" et 1" - Voir chapitre Douilles.

**12M** GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

Si no encuentra el artículo que necesita, consútenos en [consulta@egamaster.com](mailto:consulta@egamaster.com) o en [www.egamaster.com](http://www.egamaster.com)  
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**LLAVE DE IMPACTO CON CONTROL DE PAR Y DISPLAY DIGITAL / IMPACT WRENCH WITH TORQUE CONTROL AND DIGITAL DISPLAY / CLE À CHOC AVEC CONTRÔLE DE COUPLE ET ÉCRAN DIGITAL / SCHLAGSCHRAUBER MIT DREHMOMENTKONTROLLE UND DIGITALER BILDSCHIRM / AVVITATORE AD IMPULSI CON CONTROLLO DELLA COPPIA E DISPLAY DIGITALE / CHAVE DE IMPACTO COM CONTROLO DE PAR E DISPLAY DIGITAL / УДАРНЫЙ ПИСТОЛЕТ С КОНТРОЛЕМ МОМЕНТА ЗАТЯЖКИ И ЭЛЕКТРОННЫМ ДИСПЛЕЕМ**

| COD.         | AF<br>inch | R.P.M. | Nm/Lb.ft           | L (mm) | Kg  |
|--------------|------------|--------|--------------------|--------|-----|
| <b>57668</b> | 1/2        | 7500   | 160 Nm / 120 ft-lb | 197    | 2,6 |

12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                               |                                            |
|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Max. Par ajuste / Max. Tightening torque / Max. Paire réglage                                                                 | 165 Nm / 120 ft-lb                         |
| Pérdida max. de par / Max. Loosening torque / Perte max. de paire                                                             | 880 Nm                                     |
| Posiciones de ajuste predeterminadas / Default torque positions / Positions d'ajustement prédéterminées                       | 4 + Retroceso / 4 + Reverse / 4 + Recul    |
| Par exacto de apriete en cada posición / Exact tightening torque in each position / Couple de serrage exact à chaque position | (90-110-135-165 Nm), (65-80-100-118 ft-lb) |
| Consumo medio de aire / Air consumption / Consommation d'air                                                                  | 132 l/min                                  |
| Entrada de aire / Air inlet / Entrée d'air                                                                                    | 1/4"                                       |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore                                                    | 95,5dBA                                    |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore                                                     | 106,5 dBA                                  |
| Vibración / Vibration / Vibration                                                                                             | 6,2m/s <sup>2</sup>                        |
| Presión de trabajo / Working pressure / Pression de travail                                                                   | 6,3 bar / 90 PSI                           |
| Precisión / Accuracy / Précision                                                                                              | ±10%                                       |
| Controlador de presión constante 6,2 bar / 6,2 bar Pressure constant control / Contrôle de la pression constante à 6.2 bar    | ●                                          |
| Display digital / Digital display / Écran digital                                                                             | ●                                          |
| Luces indicadoras de par correcto / Correct tightening torque indicator lights / Indicateurs lumineux de couple correct       | ●                                          |
| Estructura de composite / Composite housing / Structure de composite                                                          | ●                                          |
| Mecanismo de golpeo doble martillos / Twin hammer mechanism / Mécanisme de coup de double marteaux                            | ●                                          |
| Facilidad cambio dirección / Easy change direction / Facilité de changement de direction                                      | ●                                          |
| Entrada de aire rotatoria 360° / 360° Swivel Air Inlet / Entrée d'air rotatif 360°                                            | ●                                          |
| Modelo ultraligero / Light weight model / Modèle ultraléger                                                                   | ●                                          |



Vasos de impacto - Cuadrado 1/2", 3/8", 1/4" y 1" - Ver capítulo de Llaves de vaso.  
 Impact socket wrenches - 1/2", 3/8", 1/4" and 1" Sq. Drive - See Socket wrenches chapter.  
 Douilles à choc - Carrée de 1/2", 3/8", 1/4" et 1" - Voir chapitre Douilles.

■ LLAVES DE IMPACTO / IMPACT WRENCHES / CLÉS À CHOC / SCHLAGSCHRAUBER / AVVITATORI AD IMPULSI / CHAVES DE IMPACTO / УДАРНЫЕ ГАЙКОВЕРТЫ

| COD.  | AF<br>inch | R.P.M. | Nm/Lb.ft           | L (mm) | Kg  |
|-------|------------|--------|--------------------|--------|-----|
| 55835 | 3/8        | 11000  | 610 Nm / 450 ft-lb | 160    | 1,3 |
| 55836 | 1/2        |        | 680 Nm / 500 ft-lb |        |     |

COMPOSITE I 12M



| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                                                     |                                                          |
|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| Max. Par / Max. torque / Max. Paire                                                                                          | 55835 610 Nm / 450 ft-lb<br>55836 680 Nm / 500 ft-lb     |
| Max. Par ajuste / Max. Tightening torque / Max. Paire réglage                                                                | 55835 610 Nm / 450 ft-lb<br>55836 680 Nm / 500 ft-lb     |
| Par recomendado / Recommended torque / Paire recommandé                                                                      | 55835 610 Nm / 450 ft-lb<br>55836 680 Nm / 500 ft-lb     |
| Pérdida max. de par / Max. Loosening torque / Perte max. de paire                                                            | 55835 610 Nm / 450 ft-lb<br>55836 680 Nm / 500 ft-lb     |
| Consumo medio de aire / Air consumption / Consommation d'air                                                                 | 120 l/min                                                |
| Entrada de aire / Air inlet / Entrée d'air                                                                                   | 1/4"                                                     |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore                                                   | 89,5 dBA                                                 |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore                                                    | 100,5 dBA                                                |
| Vibración / Vibration / Vibration                                                                                            | 55835 5,4 m/s <sup>2</sup><br>55836 5,2 m/s <sup>2</sup> |
| Presión de trabajo / Working pressure / Pression de travail                                                                  | 6,3 bar / 90 PSI                                         |
| Ø Int. manguera / Ø Int. hose / Ø Int. tuyau                                                                                 | 3/8"                                                     |
| Mecanismo de golpeo doble martillos / Twin hammer mechanism / Mécanisme de coup de double marteaux                           | ●                                                        |
| Estructura de composite / Composite housing / Structure de composite                                                         | ●                                                        |
| Modelo ultraligero / Light weight model / Modèle ultraléger                                                                  | ●                                                        |
| Salida del aire por el mango / Handle air exhaust / Sortie d'air par le manche                                               | ●                                                        |
| 3 posiciones de ajuste en sentido de apriete / 3 Tightening torque settings / 3 positions de réglage dans le sens de serrage | ●                                                        |
| Posición de retroceso / Reverse position / Position de recul                                                                 | ●                                                        |



Vasos de impacto - Cuadrado 1/2", 3/8", 1/4" y 1" - Ver capítulo de Llaves de vaso.  
Impact socket wrenches - 1/2", 3/8", 1/4" and 1" Sq. Drive - See Socket wrenches chapter.  
Douilles à choc - Carrée de 1/2", 3/8", 1/4" et 1" - Voir chapitre Douilles.

12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

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| COD.         | AF<br>inch | R.P.M. | Nm/Lb.ft             | L (mm) | Kg  |
|--------------|------------|--------|----------------------|--------|-----|
| <b>55845</b> | 3/4        | 4000   | 1695 Nm / 1248 ft-lb | 248    | 5,8 |

12M



| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                                                     |                            |
|------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Max. Par / Max. torque / Max. Paire                                                                                          | 1695 Nm / 1248 ft-lb       |
| Max. Par ajuste / Max. Tightening torque / Max. Paire réglage                                                                | 1560 Nm / 1150 ft-lb       |
| Par recomendado / Recommended torque / Paire recommandé                                                                      | 290-1270 Nm/ 200-950 ft-lb |
| Pérdida max. de par / Max. Loosening torque / Perte max. de paire                                                            | 1628 Nm/ 1200 ft-lb        |
| Consumo medio de aire / Air consumption / Consommation d'air                                                                 | 170 l/min                  |
| Entrada de aire / Air inlet / Entrée d'air                                                                                   | 3/8                        |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore                                                   | 90,8 dBA                   |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore                                                    | 101,8 dBA                  |
| Vibración / Vibration / Vibration                                                                                            | 5,3 m/s <sup>2</sup>       |
| Presión de trabajo / Working pressure / Pression de travail                                                                  | 6,3 bar / 90 PSI           |
| Ø Int. manguera / Ø Int. hose / Ø Int. tuyau                                                                                 | 3/8"                       |
| Mecanismo de golpeo doble martillos / Twin hammer mechanism / Mécanisme de coup de double marteaux                           | ●                          |
| Salida del aire por el mango / Handle air exhaust / Sortie d'air par le manche                                               | ●                          |
| 3 posiciones de ajuste en sentido de apriete / 3 Tightening torque settings / 3 positions de réglage dans le sens de serrage | ●                          |
| 3 posiciones de retroceso / 3 Reverse positions / 3 Positions de recul                                                       | ●                          |

| COD.         | AF<br>inch | R.P.M. | Nm/Lb.ft             | L (mm) | Kg   |
|--------------|------------|--------|----------------------|--------|------|
| <b>56053</b> | 1          | 4000   | 3900 Nm / 2876 ft-lb | 537    | 10,6 |
| <b>56054</b> |            |        |                      |        |      |

12M



| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                                                     |                                |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Max. Par / Max. torque / Max. Paire                                                                                          | 3900 Nm / 2876 ft-lb           |
| Max. Par ajuste / Max. Tightening torque / Max. Paire réglage                                                                | 3300 Nm / 2435 ft-lb           |
| Par recomendado / Recommended torque / Paire recommandé                                                                      | 2900-3300 Nm / 2140-2435 ft-lb |
| Pérdida max. de par / Max. Loosening torque / Perte max. de paire                                                            | 3900 Nm / 2878 ft-lb           |
| Consumo medio de aire / Air consumption / Consommation d'air                                                                 | 182 l/min                      |
| Entrada de aire / Air inlet / Entrée d'air                                                                                   | 1/2"                           |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore                                                   | 98 dBA                         |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore                                                    | 109 dBA                        |
| Vibración / Vibration / Vibration                                                                                            | 6,9 m/s <sup>2</sup>           |
| Presión de trabajo / Working pressure / Pression de travail                                                                  | 6,3 bar / 90 PSI               |
| Eje extendido / Extended anvil / Axe étendu                                                                                  | 56053 2"<br>56054 8"           |
| Ø Int. manguera / Ø Int. hose / Ø Int. tuyau                                                                                 | 1/2"                           |
| Mecanismo de golpeo doble martillos / Twin hammer mechanism / Mécanisme de coup de double marteaux                           | ●                              |
| 3 posiciones de ajuste en sentido de apriete / 3 Tightening torque settings / 3 positions de réglage dans le sens de serrage | ●                              |
| 3 posiciones de retroceso / 3 Reverse positions / 3 Positions de recul                                                       | ●                              |



Vasos de impacto - Cuadrado 1/2", 3/8", 1/4" y 1" - Ver capítulo de Llaves de vaso.  
 Impact socket wrenches - 1/2", 3/8", 1/4" and 1" Sq. Drive - See Socket wrenches chapter.  
 Douilles à choc - Carrée de 1/2", 3/8", 1/4" et 1" - Voir chapitre Douilles.

**ATORNILLADOR DINAMOMETRICO NEUMÁTICO / PNEUMATIC TORQUE NUTRUNNER / VISSEUSE DYNAMOMÉTRIQUE PNEUMATIQUE / PNEUMATISCHER DREHMOMENTSCHRAUBER / GIRAVITE DINAMOMETRICO PNEUMATICO / APARAFUSADORA DINAMOMÉTRICA PNEUMÁTICA / ПНЕВМАТИЧЕСКАЯ ОТВЕРТКА С УСТАНОВКОЙ МОМЕНТА ЗАТЯГИВАНИЯ**

**ACODADO / ANGLE TYPE / D'ANGLE / WINKELTYP / ANGOLARE / ANGULAR / ИЗОГНУТОЙ ФОРМЫ**

| COD.  | AF<br>inch | N.m     | R.P.M. | L (mm) | Kg  |
|-------|------------|---------|--------|--------|-----|
| 58902 |            | 1,2-2,4 | 1450   | 340    | 1,2 |
| 58903 | 3/8"       | 2,2-4,3 | 800    |        |     |
| 58913 |            | 4-10    | 340    | 350    | 1,3 |

12M



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                            |                       |
|----------------------------------------------------------------------------|-----------------------|
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI      |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"                  |
| Consumo de aire / Air consumption / Consommation d'air                     | 198 LPM (7 CFM)       |
| Reversible / Reversible / Réversible                                       | ●                     |
| Vibración / Vibration / Vibration                                          | <2,5 m/s <sup>2</sup> |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 78 dBA                |

| COD.  | AF<br>inch | N.m   | R.P.M. | L (mm) | Kg  |
|-------|------------|-------|--------|--------|-----|
| 58914 | 1/2"       | 10-40 | 280    | 520    | 2,4 |
| 58922 |            | 35-70 | 130    |        |     |

12M



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                            |                       |
|----------------------------------------------------------------------------|-----------------------|
| Presión de trabajo / Working pressure / Pression de travail                | 5,9 bar / 85 PSI      |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"                  |
| Consumo de aire / Air consumption / Consommation d'air                     | 283 LPM (10 CFM)      |
| Reversible / Reversible / Réversible                                       | ●                     |
| Vibración / Vibration / Vibration                                          | <2,5 m/s <sup>2</sup> |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 82 dBA                |

**TIPO PISTOLA / PISTOL TYPE / TYPE PISTOLET / PISTOLENTYP / TIPO PISTOLA / TIPO PISTOLA / ПИСТОЛЕТНОГО ТИПА**

| COD.  | AF<br>inch | N.m  | L x W x H (mm) | R.P.M. | Kg  |
|-------|------------|------|----------------|--------|-----|
| 58869 | 3/8        | 5-28 | 235x39x190     | 250    | 1,2 |

12M



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                            |                        |
|----------------------------------------------------------------------------|------------------------|
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI       |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"                   |
| Consumo de aire / Air consumption / Consommation d'air                     | 550 LPM (17,7 CFM)     |
| Reversible / Reversible / Réversible                                       | ●                      |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 81,84 dBA              |
| Nivel de vibración / Vibration level / Niveau de vibration                 | < 2,5 m/s <sup>2</sup> |





Vasos de impacto - Cuadrado 1/2", 3/8", 1/4" y 1" - Ver capítulo de Llaves de vaso.  
 Impact socket wrenches - 1/2", 3/8", 1/4" and 1" Sq. Drive - See Socket wrenches chapter.  
 Douilles à choc - Carrée de 1/2", 3/8", 1/4" et 1" - Voir chapitre Douilles.

12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

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**LLAVE DE CARRACA NEUMÁTICA / PNEUMATIC RATCHET WRENCH / CLÉ À CLIQUET PNEUMATIQUE / DRUCKLUFT-UMSCHALTRATSCHKE / CHIAVE A CRICCO PNEUMATICA / ROQUETE PNEUMÁTICO / ПНЕВМАТИЧЕСКИЙ ТРЕЩЕТОЧНЫЙ КЛЮЧ**



| COD.         |  | R.P.M. | Nm/Lb.ft         | L (mm) |  |
|--------------|-----------------------------------------------------------------------------------|--------|------------------|--------|-------------------------------------------------------------------------------------|
| <b>55839</b> | 1/4"                                                                              | 300    | 30 Nm / 22 ft-lb | 125    | 0,5                                                                                 |

12M



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                                                 |                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Max. Par / Max. torque / Max. Paire                                                                                                             | 30 Nm / 22 ft-lb     |
| Salida del aire por el mango / Handle air exhaust / Sortie d'air par le manche                                                                  | ●                    |
| Reversible / Reversible / Réversible                                                                                                            | ●                    |
| Ø Int. manguera / Ø Int. hose / Ø Int. tuyau                                                                                                    | 3/8"                 |
| Presión de trabajo / Working pressure / Pression de travail                                                                                     | 6,3 bar / 90 PSI     |
| Vibración / Vibration / Vibration                                                                                                               | 7,3 m/s <sup>2</sup> |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore                                                                       | 96,5 dBA             |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore                                                                      | 85,5 dBA             |
| Entrada de aire / Air inlet / Entrée d'air                                                                                                      | 1/4"                 |
| Consumo medio de aire / Air consumption / Consommation d'air                                                                                    | 110 l/min            |
| Pérdida max. de par / Max. Loosening torque / Perte max. de paire                                                                               | 30 Nm / 22 ft-lb     |
| Par recomendado / Recommended torque / Paire recommandé                                                                                         | 30 Nm / 22 ft-lb     |
| Reducido tamaño para lugares de difícil acceso / Small size for inaccessible places / Diminution de la dimensions pour lieux difficiles d'accès | ●                    |

| COD.         |  | R.P.M. | Nm/Lb.ft         | L (mm) |  |
|--------------|------------------------------------------------------------------------------------|--------|------------------|--------|--------------------------------------------------------------------------------------|
| <b>55840</b> | 3/8"                                                                               | 175    | 68 Nm / 50 ft-lb | 265    | 1,2                                                                                  |
| <b>55841</b> | 1/2"                                                                               |        |                  |        |                                                                                      |

12M




**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                |                                   |
|--------------------------------------------------------------------------------|-----------------------------------|
| Max. Par / Max. torque / Max. Paire                                            | 68 Nm / 50 ft-lb                  |
| Salida del aire por el mango / Handle air exhaust / Sortie d'air par le manche | ●                                 |
| Reversible / Reversible / Réversible                                           | ●                                 |
| Ø Int. manguera / Ø Int. hose / Ø Int. tuyau                                   | 3/8"                              |
| Presión de trabajo / Working pressure / Pression de travail                    | 6,3 bar / 90 PSI                  |
| Vibración / Vibration / Vibration                                              |                                   |
|                                                                                | <b>55840</b> 2,6 m/s <sup>2</sup> |
|                                                                                | <b>55841</b> 2,8 m/s <sup>2</sup> |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore      | 93,8 dBA                          |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore     | 82,8 dBA                          |
| Entrada de aire / Air inlet / Entrée d'air                                     | 1/4"                              |
| Consumo medio de aire / Air consumption / Consommation d'air                   | 80 l/min                          |
| Pérdida max. de par / Max. Loosening torque / Perte max. de paire              | 68 Nm / 50 ft-lb                  |
| Par recomendado / Recommended torque / Paire recommandé                        | 68 Nm / 50 ft-lb                  |
| Mango de poliuretano / Polyurethane handle / Manche de polyuréthane            | ●                                 |



Vasos de impacto - Cuadrado 1/2", 3/8", 1/4" y 1" - Ver capítulo de Llaves de vaso.  
 Impact socket wrenches - 1/2", 3/8", 1/4" and 1" Sq. Drive - See Socket wrenches chapter.  
 Douilles à choc - Carrée de 1/2", 3/8", 1/4" et 1" - Voir chapitre Douilles.

**ATORNILLADORES NEUMÁTICOS / PNEUMATIC SCREWDRIVERS / TOURNEVIS PNEUMATIQUES / PNEUMATISCHE SCHRAUBENDREHER / CACCIAVITI PNEUMATICI / APARAFUSADORAS PNEUMÁTICAS / ОТВЕРТКА ПНЕВМАТИЧЕСКАЯ**


| COD.         | R.P.M. | Nm/Lb.ft      | L (mm) |  |
|--------------|--------|---------------|--------|------------------------------------------------------------------------------------|
| <b>57070</b> | 1800   | 5~13 / 45~115 | 200    | 0,9                                                                                |

12M



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                            |                      |
|----------------------------------------------------------------------------|----------------------|
| Consumo medio de aire / Air consumption / Consommation d'air               | 73 LPM (2.6 CFM)     |
| Potencia / Power / Puissance                                               | 0,373 kW             |
| RPM                                                                        | 1800                 |
| Rango de par / Torque range / Intervalle de couple                         | 5~13Nm / 45~115ft-lb |
| Mandril / Spindle / Mandrin                                                | 1/4"                 |
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI     |
| Vibración / Vibration / Vibration                                          | 10 m/s <sup>2</sup>  |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore  | 102,5 dBA            |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 91,5 dBA             |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"                 |
| Ø Int. manguera / Ø Int. hose / Ø Int. tuyau                               | 3/8"                 |

| COD.         | R.P.M. | Nm/Lb.ft | L (mm) |  |
|--------------|--------|----------|--------|------------------------------------------------------------------------------------|
| <b>57071</b> | 1800   | 13 / 115 | 190    | 1,1                                                                                |

12M



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                            |                      |
|----------------------------------------------------------------------------|----------------------|
| Consumo medio de aire / Air consumption / Consommation d'air               | 113 LPM (4 CFM)      |
| Potencia / Power / Puissance                                               | 0,373 kW             |
| RPM                                                                        | 1800                 |
| Rango de par / Torque range / Intervalle de couple                         | 13Nm / 115ft-lb      |
| Mandril / Spindle / Mandrin                                                | 1/4" hex.            |
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI     |
| Vibración / Vibration / Vibration                                          | 9,5 m/s <sup>2</sup> |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore  | 104,9 dBA            |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 93,9 dBA             |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"                 |
| Ø Int. manguera / Ø Int. hose / Ø Int. tuyau                               | 3/8"                 |

**REMACHADORAS NEUMÁTICAS / PNEUMATIC RIVETER / RIVETEUSE PNEUMATIQUE / PNEUMATISCHE NIETMACHINE / RIVETTATRICI PNEUMATICHE / ALICATES DE REBITAR PNEUMÁTICOS / ПНЕВМАТИЧЕСКИЕ ЗАКЛЕПОЧНИКИ**

| COD.         | CAP. Ø    |  | L (mm) |  |
|--------------|-----------|-------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------|
| <b>57146</b> | 2,4 - 4,8 | 2,4 - 3,2 - 4,0 - 4,8                                                               | 270    | 1,5                                                                                  |

12M



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                            |                      |
|----------------------------------------------------------------------------|----------------------|
| Consumo medio de aire / Air consumption / Consommation d'air               | 99 LPM (3,4 CFM)     |
| Potencia de tracción / Traction power / Puissance de traction              | 880 kg               |
| Recorrido / Stroke / Parcours                                              | 14 mm                |
| Capacidad / Capacity / Capacité                                            | 4,8mm (3/16")        |
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI     |
| Vibración / Vibration / Vibration                                          | <2,5m/s <sup>2</sup> |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore  | 88,8 dBA             |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 77,8 dBA             |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"                 |
| Succión automática / Automatic suction / Aspiration automatique            | -                    |

**12M** GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ


| COD.         | CAP. Ø    |  | L (mm) |  |
|--------------|-----------|-----------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|
| <b>57147</b> | 2,4 - 6,4 | 2,4 - 3,2 - 4,0 - 4,8 - 6,4                                                       | 325    | 2,1                                                                                 |

12M


**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                   |                      |
|-----------------------------------------------------------------------------------|----------------------|
| Consumo medio de aire / <i>Air consumption</i> / Consommation d'air               | 119 LPM (4,2 CFM)    |
| Potencia de tracción / <i>Traction power</i> / Puissance de traction              | 1400 kg              |
| Recorrido / <i>Stroke</i> / Parcours                                              | 19 mm                |
| Capacidad / <i>Capacity</i> / Capacité                                            | 6,4mm (1/4")         |
| Presión de trabajo / <i>Working pressure</i> / Pression de travail                | 6,3 bar / 90 PSI     |
| Vibración / <i>Vibration</i> / Vibration                                          | <2,5m/s <sup>2</sup> |
| Nivel de potencia sonora / <i>Noise power level</i> / Niveau de puissance sonore  | 92,1 dBA             |
| Nivel de presión sonora / <i>Noise pressure level</i> / Niveau de pression sonore | 81,2 dBA             |
| Entrada de aire / <i>Air inlet</i> / Entrée d'air                                 | 1/4"                 |
| Succión automática / <i>Automatic suction</i> / Aspiration automatique            | ●                    |


**ACCESORIOS / ACCESSORIES / ACCESSORIES / ERSATZTEILE / ACCESSORI / ACCESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

| COD.         | Descripción / <i>Description</i> / Description            | Válido para / <i>Valid for</i> / Valable pour |  |
|--------------|-----------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------|
| <b>80528</b> | Kit de repuestos / <i>Spare parts kit</i> / Kit de pièces | 57146                                         | 100                                                                               |
| <b>80532</b> | de rechange                                               | 57147                                         | 120                                                                               |


**GRAPADORA NEUMÁTICA / PNEUMATIC STAPLER / AGRAFEUSE PNEUMATIQUE / PNEUMATISCHE NIETMACHINE / GRAFFETTATRICE PNEUMATICA / AGRAFADOR PNEUMÁTICO / ПНЕВМАТИЧЕСКИЙ СКОБОШВИВАТЕЛЬ**


| COD.         | CAP.    | L (mm) |  |
|--------------|---------|--------|-------------------------------------------------------------------------------------|
| <b>57085</b> | 155 pcs | 215    | 0,9                                                                                 |

12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                             |                          |
|---------------------------------------------------------------------------------------------|--------------------------|
| Presión de trabajo / <i>Working pressure</i> / Pression de travail                          | 6,3-6,9 bar / 60-100 PSI |
| Vibración / <i>Vibration</i> / Vibration                                                    | <2,5mm/s <sup>2</sup>    |
| Nivel de potencia sonora / <i>Noise power level</i> / Niveau de puissance sonore            | 85,17 dBA                |
| Nivel de presión sonora / <i>Noise pressure level</i> / Niveau de pression sonore           | 72,17 dBA                |
| Entrada de aire / <i>Air inlet</i> / Entrée d'air                                           | 1/4"                     |
| Uso con grapas calibre-21 / <i>Use with 21-Gauge staples</i> / Utilise des agrafes 21-Gauge | ●                        |


**ACCESORIOS / ACCESSORIES / ACCESSORIES / ERSATZTEILE / ACCESSORI / ACCESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

| COD.         | Descripción / <i>Description</i> / Description                                     | W x H (mm) |  |
|--------------|------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|
| <b>87938</b> | Caja de grapas calibre 21 / <i>21-Gauge staples box</i> / Boîte de grafes 21-Gauge | 12,8 x 6   | 10000                                                                                 |
| <b>87939</b> |                                                                                    | 12,8 x 16  | 5000                                                                                  |





**PISTOLA DE ENGRASE NEUMÁTICA / PNEUMATIC GREASE GUN / PISTOLET GRAISSEUR PNEUMATIQUE / PNEUMATISCHE FETTPISTOLE / PISTOLA LUBRIFICAZIONE PNEUMATICA / PISTOLA DE LUBRIFICAÇÃO PNEUMÁTICA / ПНЕВМАТИЧЕСКИЙ ШПРИЦ ДЛЯ СМАЗКИ**

| COD.         | CAP.          | L (mm) |  |
|--------------|---------------|--------|-----------------------------------------------------------------------------------|
| <b>57099</b> | 400 g / 450 g | 370    | 1,4                                                                               |

12M




**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                 |                           |
|---------------------------------------------------------------------------------|---------------------------|
| Uso con cartucho / Use with cartridge / Utilisation avec cartouche              | ●                         |
| Vibración / Vibration / Vibration                                               | <2,5 m/s <sup>2</sup>     |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore      | 74 dBA                    |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore       | 85 dBA                    |
| Consumo medio de aire / Air consumption / Consommation d'air                    | 28 LPM / 1 CFM            |
| Longitud de la boquilla / Nose length / Longueur du tuyau                       | 150 mm                    |
| Presión máx. de entrega / Max. delivery pressure / Pression de refoulement max. | 410 bar / 6000 PSI        |
| Presión de trabajo / Working pressure / Pression de travail                     | 4,1-10,3 bar / 60-150 PSI |
| Entrada de aire / Air inlet / Entrée d'air                                      | 1/4"                      |
| Grasa a granel / Bulk grease / Graisse en vrac                                  | ●                         |

**TALADRADO / DRILLING / PERÇAGE / BOHREN / TRAPANO / PERFURADO / СВЕРЛЕНИЕ**

**TALADROS NEUMÁTICOS / PNEUMATIC DRILLS / PERCEUSES PNEUMATIQUES / PNEUMATISCHE BOHRMACHINE / TRAPANI PNEUMATICI / BERBEQUINS PNEUMÁTICOS / ДРЕЛЬ ПНЕВМАТИЧЕСКАЯ**


| COD.         | CAP.       | R.P.M. | L (mm) |  |
|--------------|------------|--------|--------|------------------------------------------------------------------------------------|
| <b>57072</b> | 10 mm-3/8" | 1800   | 200    | 1,1                                                                                |

12M



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                            |                       |
|----------------------------------------------------------------------------|-----------------------|
| Consumo medio de aire / Air consumption / Consommation d'air               | 96 LPM (3,4 CFM)      |
| Ø Int. manguera / Ø Int. hose / Ø Int. tuyau                               | 3/8"                  |
| Potencia / Power / Puissance                                               | 0,373 kW              |
| RPM                                                                        | 1800                  |
| Capacidad / Capacity / Capacité                                            | 10mm (3/8")           |
| Mandril / Spindle / Mandrin                                                | 3/8"-24               |
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI      |
| Vibración / Vibration / Vibration                                          | <2,5 m/s <sup>2</sup> |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore  | 102,7 dBA             |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 91,7 dBA              |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"                  |
| Reversible / Reversible / Réversible                                       | ●                     |

| COD.         | CAP.       | R.P.M. | L (mm) |  |
|--------------|------------|--------|--------|--------------------------------------------------------------------------------------|
| <b>57073</b> | 10 mm-3/8" | 1800   | 195    | 0,9                                                                                  |

12M



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**



|                                                                            |                       |
|----------------------------------------------------------------------------|-----------------------|
| Consumo medio de aire / Air consumption / Consommation d'air               | 80 LPM (2,8 CFM)      |
| Ø Int. manguera / Ø Int. hose / Ø Int. tuyau                               | 3/8"                  |
| Potencia / Power / Puissance                                               | 0,373 kW              |
| RPM                                                                        | 1800                  |
| Capacidad / Capacity / Capacité                                            | 10mm (3/8")           |
| Mandril / Spindle / Mandrin                                                | 3/8"-24               |
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI      |
| Vibración / Vibration / Vibration                                          | <2,5 m/s <sup>2</sup> |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore  | 90,5 dBA              |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 79,5 dBA              |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"                  |
| Reversible / Reversible / Réversible                                       | -                     |

**12M** GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

TALADROS NEUMÁTICOS COMPACTOS / PNEUMATIC COMPACT DRILLS / PERCEUSES PNEUMATIQUES COMPACTES / PNEUMATISCHE KOMPAKTBOHRER / TRAPANI PNEUMATICI COMPATTI / BERBEQUINS PNEUMÁTICOS COMPACTOS / ДРЕЛИ ПНЕВМАТИЧЕСКИЕ КОМПАКТНЫЕ

CON ROSCA / WITH THREAD / AVEC FIL / MIT GEWINDE / CON FILETTATURA / COM ROSCA / С РЕЗЬБОЙ

90°



| COD.  | CAP.         | R.P.M. | L (mm) |  |  |
|-------|--------------|--------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 58990 | 6,35 mm-1/4" | 4000   | 240    | 104 x 27 x 16,5                                                                   | 650                                                                                 |
| 58992 |              |        | 310    | 172 x 27 x 16,5                                                                   | 750                                                                                 |

12M



ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                            |                                     |
|----------------------------------------------------------------------------|-------------------------------------|
| Consumo medio de aire / Air consumption / Consommation d'air               | 283 LPM (10 CFM)                    |
| Potencia / Power / Puissance                                               | 0,22 kW                             |
| Conexión a broca / Bit connection / Connexion de bits                      | Rosca 1/4" / Thread 1/4" / Fil 1/4" |
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI                    |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 81,5 dBA                            |
| Vibración / Vibration / Vibration                                          | <2,5 m/s <sup>2</sup>               |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"                                |
| Cabezal extendido / Extended head / Tête étendu                            |                                     |
|                                                                            | 58990 -                             |
|                                                                            | 58992 ●                             |
| Reversible / Reversible / Réversible                                       | -                                   |

| COD.  | CAP.         | R.P.M. | L (mm) |  |  |
|-------|--------------|--------|--------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 58994 | 6,35 mm-1/4" | 3600   | 260    | 104 x 27 x 16,5                                                                    | 900                                                                                  |
| 58996 |              |        | 330    | 172 x 27 x 16,5                                                                    | 1000                                                                                 |



12M



ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                            |                                     |
|----------------------------------------------------------------------------|-------------------------------------|
| Consumo medio de aire / Air consumption / Consommation d'air               | 368 LPM (13 CFM)                    |
| Potencia / Power / Puissance                                               | 0,37 kW                             |
| Conexión a broca / Bit connection / Connexion de bits                      | Rosca 1/4" / Thread 1/4" / Fil 1/4" |
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI                    |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 80 dBA                              |
| Vibración / Vibration / Vibration                                          | <2,5 m/s <sup>2</sup>               |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"                                |
| Cabezal extendido / Extended head / Tête étendu                            |                                     |
|                                                                            | 58994 -                             |
|                                                                            | 58996 ●                             |
| Reversible / Reversible / Réversible                                       | -                                   |

45°

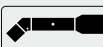

| COD.  | CAP.         | R.P.M. | L (mm) |  |  |
|-------|--------------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 58991 | 6,35 mm-1/4" | 4000   | 260    | 120 x 31 x 16                                                                       | 650                                                                                   |
| 58993 |              |        | 330    | 197 x 31 x 16                                                                       | 750                                                                                   |

12M



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                            |                                        |
|----------------------------------------------------------------------------|----------------------------------------|
| Consumo medio de aire / Air consumption / Consommation d'air               | 283 LPM (10 CFM)                       |
| Potencia / Power / Puissance                                               | 0,22 kW                                |
| Conexión a broca / Bit connection / Connexion de bits                      | Rosca 1/4" / Thread 1/4" /<br>Fil 1/4" |
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI                       |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 81,5 dBA                               |
| Vibración / Vibration / Vibration                                          | <2,5 m/s <sup>2</sup>                  |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"                                   |
| Cabezal extendido / Extended head / Tête étendu                            |                                        |
|                                                                            | 58991 -                                |
|                                                                            | 58993 ●                                |
| Reversible / Reversible / Réversible                                       | -                                      |

| COD.  | CAP.         | R.P.M. | L (mm) |  |  |
|-------|--------------|--------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 58995 |              |        | 270    | 120 x 31 x 16                                                                     | 900                                                                                 |
| 58997 | 6,35 mm-1/4" | 3600   | 350    | 197 x 31 x 16                                                                     | 1000                                                                                |

12M

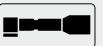



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                            |                                        |
|----------------------------------------------------------------------------|----------------------------------------|
| Consumo medio de aire / Air consumption / Consommation d'air               | 368 LPM (13 CFM)                       |
| Potencia / Power / Puissance                                               | 0,37 kW                                |
| Conexión a broca / Bit connection / Connexion de bits                      | Rosca 1/4" / Thread 1/4" /<br>Fil 1/4" |
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI                       |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 80 dBA                                 |
| Vibración / Vibration / Vibration                                          | <2,5 m/s <sup>2</sup>                  |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"                                   |
| Cabezal extendido / Extended head / Tête étendu                            |                                        |
|                                                                            | 58995 -                                |
|                                                                            | 58997 ●                                |
| Reversible / Reversible / Réversible                                       | -                                      |

**CON MANDRINO / WITH CHUCK / AVEC MANDRIN / MIT FUTTER / CON MANDRINO / COM MANDRIL / С ПАТРОНОМ**

90°

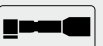

| COD.  | CAP.      | R.P.M. | L (mm) |  |  |
|-------|-----------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 59006 |           |        | 240    | 104 x 69 x 16,5                                                                     | 750                                                                                   |
| 59008 | 3 mm-1/8" | 4000   | 310    | 172 x 63 x 16,5                                                                     | 850                                                                                   |

12M



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                            |                                                                     |
|----------------------------------------------------------------------------|---------------------------------------------------------------------|
| Consumo medio de aire / Air consumption / Consommation d'air               | 283 LPM (10 CFM)                                                    |
| Potencia / Power / Puissance                                               | 0,22 kW                                                             |
| Conexión a broca / Bit connection / Connexion de bits                      | Mandrino 3mm (1/8") / Spindle<br>3mm (1/8") / Mandrin 3mm<br>(1/8") |
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI                                                    |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 81,5 dBA                                                            |
| Vibración / Vibration / Vibration                                          | <2,5 m/s <sup>2</sup>                                               |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"                                                                |
| Cabezal extendido / Extended head / Tête étendu                            |                                                                     |
|                                                                            | 59006 -                                                             |
|                                                                            | 59008 ●                                                             |
| Reversible / Reversible / Réversible                                       | -                                                                   |

| COD.  | CAP.      | R.P.M. | L (mm) |  |  |
|-------|-----------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 59010 |           |        | 260    | 104 x 69 x 16,5                                                                     | 950                                                                                   |
| 59012 | 3 mm-1/8" | 3600   | 330    | 172 x 63 x 16,5                                                                     | 1050                                                                                  |

12M





12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                            |                                                               |
|----------------------------------------------------------------------------|---------------------------------------------------------------|
| Consumo medio de aire / Air consumption / Consommation d'air               | 368 LPM (13 CFM)                                              |
| Potencia / Power / Puissance                                               | 0,37 kW                                                       |
| Conexión a broca / Bit connection / Connexion de bits                      | Mandrino 3mm (1/8") / Spindle 3mm (1/8") / Mandrin 3mm (1/8") |
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI                                              |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 80 dBA                                                        |
| Vibración / Vibration / Vibration                                          | <2,5 m/s <sup>2</sup>                                         |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"                                                          |
| Cabezal extendido / Extended head / Tête étendu                            |                                                               |
|                                                                            | 59010 -                                                       |
|                                                                            | 59012 ●                                                       |
| Reversible / Reversible / Réversible                                       | -                                                             |



45°

| COD.  | CAP.      | R.P.M. | L (mm) |  |  |
|-------|-----------|--------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 59007 | 3 mm-1/8" | 4000   | 260    | 144 x 55 x 16                                                                     | 750                                                                                 |
| 59009 |           |        | 330    | 221 x 55 x 16                                                                     | 850                                                                                 |

12M


**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                            |                                                               |
|----------------------------------------------------------------------------|---------------------------------------------------------------|
| Consumo medio de aire / Air consumption / Consommation d'air               | 283 LPM (10 CFM)                                              |
| Potencia / Power / Puissance                                               | 0,22 kW                                                       |
| Conexión a broca / Bit connection / Connexion de bits                      | Mandrino 3mm (1/8") / Spindle 3mm (1/8") / Mandrin 3mm (1/8") |
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI                                              |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 81,5 dBA                                                      |
| Vibración / Vibration / Vibration                                          | <2,5 m/s <sup>2</sup>                                         |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"                                                          |
| Cabezal extendido / Extended head / Tête étendu                            |                                                               |
|                                                                            | 59007 -                                                       |
|                                                                            | 59009 ●                                                       |
| Reversible / Reversible / Réversible                                       | -                                                             |

| COD.  | CAP.      | R.P.M. | L (mm) |  |  |
|-------|-----------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 59011 | 3 mm-1/8" | 3600   | 270    | 144 x 55 x 16                                                                       | 950                                                                                   |
| 59013 |           |        | 350    | 221 x 55 x 16                                                                       | 1050                                                                                  |

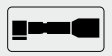

12M


**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                            |                                                               |
|----------------------------------------------------------------------------|---------------------------------------------------------------|
| Consumo medio de aire / Air consumption / Consommation d'air               | 368 LPM (13 CFM)                                              |
| Potencia / Power / Puissance                                               | 0,37 kW                                                       |
| Conexión a broca / Bit connection / Connexion de bits                      | Mandrino 3mm (1/8") / Spindle 3mm (1/8") / Mandrin 3mm (1/8") |
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI                                              |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 80 dBA                                                        |
| Vibración / Vibration / Vibration                                          | <2,5 m/s <sup>2</sup>                                         |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"                                                          |
| Cabezal extendido / Extended head / Tête étendu                            |                                                               |
|                                                                            | 59011 -                                                       |
|                                                                            | 59013 ●                                                       |
| Reversible / Reversible / Réversible                                       | -                                                             |

**CON CASQUILLO / WITH COLLET / AVEC DOUILLE / MIT SPANNZANGE / CON BOCCOLA / COM CASQUILHO / СО ВТУЛКОЙ**

90°



| COD.  | CAP.         | R.P.M. | L (mm) |  |  |
|-------|--------------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 58998 | 5,9 mm-3/16" | 4000   | 240    | 104 x 31 x 16,5                                                                     | 650                                                                                   |
| 59000 |              |        | 310    | 172 x 31 x 16,5                                                                     | 750                                                                                   |

12M



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                            |                                                |
|----------------------------------------------------------------------------|------------------------------------------------|
| Consumo medio de aire / Air consumption / Consommation d'air               | 283 LPM (10 CFM)                               |
| Potencia / Power / Puissance                                               | 0,22 kW                                        |
| Conexión a broca / Bit connection / Connexion de bits                      | Casquillo 9/32" / Collet 9/32" / Douille 9/32" |
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI                               |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 81,5 dBA                                       |
| Vibración / Vibration / Vibration                                          | <2,5 m/s <sup>2</sup>                          |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"                                           |
| Cabezal extendido / Extended head / Tête étendu                            |                                                |
|                                                                            | 58998 -                                        |
|                                                                            | 59000 ●                                        |
| Reversible / Reversible / Réversible                                       | -                                              |



| COD.  | CAP.         | R.P.M. | L (mm) |  |  |
|-------|--------------|--------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 59002 |              |        | 260    | 104 x 31 x 16,5                                                                   | 850                                                                                 |
| 59004 | 5,9 mm-3/16" | 3600   | 330    | 172 x 31 x 16,5                                                                   | 950                                                                                 |

12M


**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                            |                                                |
|----------------------------------------------------------------------------|------------------------------------------------|
| Consumo medio de aire / Air consumption / Consommation d'air               | 368 LPM (13 CFM)                               |
| Potencia / Power / Puissance                                               | 0,37 kW                                        |
| Conexión a broca / Bit connection / Connexion de bits                      | Casquillo 9/32" / Collet 9/32" / Douille 9/32" |
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI                               |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 80 dBA                                         |
| Vibración / Vibration / Vibration                                          | <2,5 m/s <sup>2</sup>                          |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"                                           |
| Cabezal extendido / Extended head / Tête étendu                            |                                                |
|                                                                            | 59002 -                                        |
|                                                                            | 59004 ●                                        |
| Reversible / Reversible / Réversible                                       | -                                              |



45°

| COD.  | CAP.         | R.P.M. | L (mm) |  |  |
|-------|--------------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 58999 |              |        | 260    | 121 x 32 x 16                                                                       | 650                                                                                   |
| 59001 | 5,9 mm-3/16" | 4000   | 330    | 198 x 32,5 x 16                                                                     | 750                                                                                   |

12M


**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                            |                                                |
|----------------------------------------------------------------------------|------------------------------------------------|
| Consumo medio de aire / Air consumption / Consommation d'air               | 283 LPM (10 CFM)                               |
| Potencia / Power / Puissance                                               | 0,22 kW                                        |
| Conexión a broca / Bit connection / Connexion de bits                      | Casquillo 9/32" / Collet 9/32" / Douille 9/32" |
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI                               |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 81,5 dBA                                       |
| Vibración / Vibration / Vibration                                          | <2,5 m/s <sup>2</sup>                          |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"                                           |
| Cabezal extendido / Extended head / Tête étendu                            |                                                |
|                                                                            | 58999 -                                        |
|                                                                            | 59001 ●                                        |
| Reversible / Reversible / Réversible                                       | -                                              |

| COD.  | CAP.         | R.P.M. | L (mm) |  |  |
|-------|--------------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 59003 |              |        | 270    | 121 x 32 x 16                                                                       | 850                                                                                   |
| 59005 | 5,9 mm-3/16" | 3600   | 350    | 198 x 32,5 x 16                                                                     | 950                                                                                   |

12M



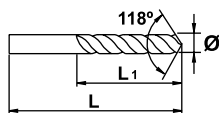
12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                            |                                                |
|----------------------------------------------------------------------------|------------------------------------------------|
| Consumo medio de aire / Air consumption / Consommation d'air               | 368 LPM (13 CFM)                               |
| Potencia / Power / Puissance                                               | 0,37 kW                                        |
| Conexión a broca / Bit connection / Connexion de bits                      | Casquillo 9/32" / Collet 9/32" / Douille 9/32" |
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI                               |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 80 dBA                                         |
| Vibración / Vibration / Vibration                                          | <2,5 m/s <sup>2</sup>                          |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"                                           |
| Cabezal extendido / Extended head / Tête étendu                            |                                                |
|                                                                            | 59003 -                                        |
|                                                                            | 59005 ●                                        |
| Reversible / Reversible / Réversible                                       | -                                              |

**ACCESORIOS / ACCESSORIES / ACCESSORIES / ERSATZTEILE / ACCESSORI / ACCESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

| COD.  | Descripción / Description / Description | CAP. |
|-------|-----------------------------------------|------|
| 58979 |                                         | 2,4  |
| 58980 |                                         | 2,5  |
| 58981 |                                         | 3,0  |
| 58982 |                                         | 3,1  |
| 58983 |                                         | 3,2  |
| 58984 | Casquillo / Collet / Douille            | 4,0  |
| 58985 |                                         | 4,5  |
| 58986 |                                         | 4,6  |
| 58987 |                                         | 4,8  |
| 58988 |                                         | 5,8  |
| 58989 |                                         | 5,9  |


**BROCAS / TWIST DRILL / MÈCHES / BOHRER / PUNTE PER TRAPANO / BROCAS / СВЕРЛО**
**HSS**


| COD.  | Ø D.<br>mm | L (mm) | L1 (mm) | 9  | 10 |
|-------|------------|--------|---------|----|----|
| 66281 | 0,5        | 22     | 6       |    |    |
| 66282 | 1          | 34     | 12      |    |    |
| 66283 | 1,2        | 38     | 16      | 1  |    |
| 66284 | 1,5        | 40     | 18      |    |    |
| 66285 | 1,7        | 43     | 20      |    |    |
| 66286 | 2          | 49     | 24      |    |    |
| 66287 | 2,2        | 53     | 27      |    |    |
| 66288 | 2,5        | 57     | 30      | 2  |    |
| 66289 | 2,7        | 61     | 33      |    |    |
| 66290 | 3          | 75     | 43      |    |    |
| 66291 | 3,2        | 65     | 36      | 3  |    |
| 66292 | 3,3        |        |         |    |    |
| 66293 | 3,5        | 70     | 39      | 4  |    |
| 66294 | 3,7        |        |         |    | 10 |
| 66295 | 4          | 75     | 43      | 5  |    |
| 66296 | 4,2        |        |         |    |    |
| 66297 | 4,3        |        |         | 6  |    |
| 66298 | 4,5        | 80     | 47      | 7  |    |
| 66299 | 4,7        |        |         |    |    |
| 66300 | 5          | 86     | 52      | 8  |    |
| 66301 | 5,2        |        |         |    |    |
| 66302 | 5,5        |        |         |    |    |
| 66303 | 5,7        | 93     | 57      | 9  |    |
| 66304 | 6          |        |         | 10 |    |
| 66305 | 6,2        | 101    | 63      |    |    |
| 66306 | 6,5        |        |         | 15 |    |



| COD.  | O.D.<br>mm | L (mm) | L1 (mm) | g   |    |
|-------|------------|--------|---------|-----|----|
| 66307 | 6,7        | 101    | 63      | 15  |    |
| 66308 | 7          |        |         | 20  |    |
| 59108 | 7,25       | 109    | 69      | 25  |    |
| 66309 | 7,5        |        |         |     |    |
| 59109 | 7,75       |        |         |     |    |
| 66310 | 8          | 117    | 75      | 30  | 10 |
| 59110 | 8,25       |        |         |     |    |
| 66311 | 8,5        |        |         |     |    |
| 59111 | 8,75       |        |         |     |    |
| 66312 | 9          | 125    | 81      | 35  |    |
| 66313 | 9,5        |        |         | 40  |    |
| 66314 | 10         | 133    | 87      | 50  |    |
| 66375 | 10,5       | 135    |         | 55  |    |
| 66315 | 11         | 142    | 94      | 65  |    |
| 66316 | 11,5       |        |         |     |    |
| 66317 | 12         |        |         |     |    |
| 66318 | 12,5       | 151    | 101     | 80  |    |
| 66319 | 13         |        |         |     |    |
| 66320 | 14         | 160    | 108     | 85  | 5  |
| 66321 | 15         |        |         | 90  |    |
| 66322 | 16         | 178    | 120     | 100 |    |
| 66324 | 18         | 191    | 130     | 150 |    |
| 66326 | 20         | 205    | 140     | 200 |    |

DIN 338

## KIT

| COD.  | PCS. | Rango (mm) / Range (mm) / Rang (mm)                      | g   |
|-------|------|----------------------------------------------------------|-----|
| 66327 | 19   | 1-1,5-2-2,5-3-3,5-4-4,5-5-5,5-6-6,5-7-7,5-8-8,5-9-9,5-10 | 300 |

DIN 338

| PCS. | Composición / Composition / Composition | Descripción / Description / Description | Ø (mm) |
|------|-----------------------------------------|-----------------------------------------|--------|
|      | 66282                                   |                                         | 1      |
|      | 66284                                   |                                         | 1,5    |
|      | 66286                                   |                                         | 2      |
|      | 66288                                   |                                         | 2,5    |
|      | 66290                                   |                                         | 3      |
|      | 66293                                   |                                         | 3,5    |
|      | 66295                                   |                                         | 4      |
|      | 66298                                   |                                         | 4,5    |
|      | 66300                                   |                                         | 5      |
| 1    | 66302                                   | Brocas / Twist drills                   | 5,5    |
|      | 66304                                   |                                         | 6      |
|      | 66306                                   |                                         | 6,5    |
|      | 66308                                   |                                         | 7      |
|      | 66309                                   |                                         | 7,5    |
|      | 66310                                   |                                         | 8      |
|      | 66311                                   |                                         | 8,5    |
|      | 66312                                   |                                         | 9      |
|      | 66313                                   |                                         | 9,5    |
|      | 66314                                   |                                         | 10     |



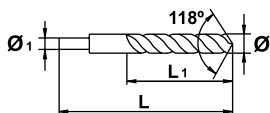
| COD.         | PCS. | Rango (mm) / Range (mm) / Rang (mm)                                              |  |
|--------------|------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>66328</b> | 25   | 1-1,5-2-2,5-3-3,5-4-4,5-5-5,5-6-6,5-7-7,5-8-8,5-9-9,5-10-10,5-11-11,5-12-12,5-13 | 750                                                                                 |




DIN 338

| PCS. | Composición / Composition / Composition | Descripción / Description / Description | Ø (mm) |
|------|-----------------------------------------|-----------------------------------------|--------|
|      | 66282                                   |                                         | 1      |
|      | 66284                                   |                                         | 1,5    |
|      | 66286                                   |                                         | 2      |
|      | 66288                                   |                                         | 2,5    |
|      | 66290                                   |                                         | 3      |
|      | 66293                                   |                                         | 3,5    |
|      | 66295                                   |                                         | 4      |
|      | 66298                                   |                                         | 4,5    |
|      | 66300                                   |                                         | 5      |
|      | 66302                                   |                                         | 5,5    |
|      | 66304                                   |                                         | 6      |
|      | 66306                                   |                                         | 6,5    |
| 1    | 66308                                   | Brocas / Twist drills                   | 7      |
|      | 66309                                   |                                         | 7,5    |
|      | 66310                                   |                                         | 8      |
|      | 66311                                   |                                         | 8,5    |
|      | 66312                                   |                                         | 9      |
|      | 66313                                   |                                         | 9,5    |
|      | 66314                                   |                                         | 10     |
|      | 66375                                   |                                         | 10,5   |
|      | 66315                                   |                                         | 11     |
|      | 66316                                   |                                         | 11,5   |
|      | 66317                                   |                                         | 12     |
|      | 66318                                   |                                         | 12,5   |
|      | 66319                                   |                                         | 13     |



**HSS STANDARD REDUCIDA / HSS DRILL BIT WITH REDUCED SHANK / HSS STANDARD RÉDUIT / HSS BOHRER MIT REDUZIERTEM SCHAFT / HSS STANDARD RIDOTTA / BROCA HSS COM CONE REDUZIDO / СВЕРЛО HSS С УМЕНЬШЕННЫМ ХВОСТОВИКОМ**



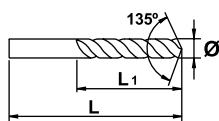
| COD.         |  | Ø 1 (mm) | L (mm) | L1 (mm) |  |  |
|--------------|-------------------------------------------------------------------------------------|----------|--------|---------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>66376</b> | 13,5                                                                                |          |        |         | 100                                                                                 |                                                                                       |
| <b>66377</b> | 14                                                                                  |          | 160    | 108     | 115                                                                                 |                                                                                       |
| <b>66378</b> | 14,5                                                                                |          | 169    | 114     | 120                                                                                 |                                                                                       |
| <b>66379</b> | 15                                                                                  |          |        |         |                                                                                     |                                                                                       |
| <b>66380</b> | 15,5                                                                                |          | 178    | 120     | 140                                                                                 |                                                                                       |
| <b>66381</b> | 16                                                                                  |          |        |         | 155                                                                                 |                                                                                       |
| <b>66382</b> | 16,5                                                                                |          |        |         |                                                                                     |                                                                                       |
| <b>66383</b> | 17                                                                                  | 12,7     | 184    | 125     | 160                                                                                 | 1                                                                                     |
| <b>66272</b> | 17,5                                                                                |          | 191    | 130     | 200                                                                                 |                                                                                       |
| <b>66273</b> | 18                                                                                  |          |        |         |                                                                                     |                                                                                       |
| <b>66274</b> | 18,5                                                                                |          | 198    | 135     | 230                                                                                 |                                                                                       |
| <b>66275</b> | 19                                                                                  |          |        |         | 215                                                                                 |                                                                                       |
| <b>66276</b> | 19,5                                                                                |          |        |         |                                                                                     |                                                                                       |
| <b>66277</b> | 20                                                                                  |          | 205    | 140     | 260                                                                                 |                                                                                       |



DIN 338



## HSS-CO



| COD.  | O.D.<br>mm | L (mm) | L1 (mm) | g  |    |  |
|-------|------------|--------|---------|----|----|--|
| 66329 | 1          | 34     | 12      |    |    |  |
| 66330 | 1,25       | 38     | 16      |    |    |  |
| 66331 | 1,5        | 40     | 18      | 1  |    |  |
| 66332 | 1,75       | 46     | 22      |    |    |  |
| 66333 | 2          | 49     | 24      |    |    |  |
| 66334 | 2,25       | 53     | 27      |    |    |  |
| 66335 | 2,5        | 57     | 30      | 2  |    |  |
| 66336 | 2,75       | 61     | 33      |    |    |  |
| 66337 | 3          | 75     | 43      |    |    |  |
| 66338 | 3,25       | 65     | 36      | 3  |    |  |
| 66339 | 3,5        | 70     | 39      | 4  |    |  |
| 66340 | 3,75       |        |         |    |    |  |
| 66341 | 4          | 75     | 43      | 5  |    |  |
| 66342 | 4,25       |        |         |    |    |  |
| 66343 | 4,5        |        |         | 7  |    |  |
| 66344 | 4,75       | 80     | 47      |    | 10 |  |
| 66345 | 5          |        |         |    |    |  |
| 66346 | 5,25       | 86     | 52      | 8  |    |  |
| 66347 | 5,5        |        |         |    |    |  |
| 66348 | 5,75       | 93     | 57      | 9  |    |  |
| 66349 | 6          |        |         | 10 |    |  |
| 66350 | 6,25       |        |         |    |    |  |
| 66351 | 6,5        | 101    | 63      | 15 |    |  |
| 66352 | 6,75       |        |         |    |    |  |
| 66353 | 7          |        |         | 20 |    |  |
| 66354 | 7,25       | 109    | 69      |    |    |  |
| 66355 | 7,5        |        |         | 25 |    |  |
| 66360 | 7,75       |        |         |    |    |  |
| 66361 | 8          |        |         |    |    |  |
| 66362 | 8,25       | 117    | 75      | 30 |    |  |
| 66363 | 8,5        |        |         |    |    |  |
| 66364 | 8,75       |        |         |    |    |  |
| 66365 | 9          |        |         | 35 |    |  |
| 66366 | 9,25       | 125    | 81      |    |    |  |
| 66367 | 9,5        |        |         | 40 |    |  |
| 66368 | 9,75       |        |         |    |    |  |
| 66369 | 10         | 133    | 87      | 50 | 5  |  |
| 66370 | 10,5       |        |         |    |    |  |
| 66371 | 11,5       | 142    | 94      | 65 |    |  |
| 66372 | 12         |        |         | 80 |    |  |
| 66374 | 12,5       | 151    | 101     |    |    |  |

DIN 338

**ARRANQUE DE MATERIAL / MATERIAL REMOVAL / ENLÈVEMENT DE MATIÈRE / MATERIALENTFERNUNG / ASPORTAZIONE MATERIALE / REMOÇÃO DE MATERIAL / УДАЛЕНИЕ МАТЕРИАЛА**

**LIJADORAS NEUMÁTICAS / PNEUMATIC SANDERS / PONCEUSES PNEUMATIQUES / PNEUMATISCHE VIBRATIONSSCHLEIFER / PULITRICE PNEUMATICA / LIXADORAS PNEUMÁTICAS / ОРБИТАЛЬНАЯ ШЛИФОВАЛЬНАЯ МАШИНА ПНЕВМАТИЧЕСКАЯ**

**ORBITAL / ORBIT / ORBITALE / ORBITAL / ORBITALE / ORBITAL / ОРБИТАЛЬНАЯ**

**CON BOLSA / WITH BAG / AVEC SAC / MIT TASCHE / CON BORSA / COM BOLSA / С СУМКОЙ**

| COD.         | CAP.    | R.P.M. | L (mm) | Kg   |
|--------------|---------|--------|--------|------|
| <b>57074</b> | 6"-5 mm | 12000  | 215    | 0,95 |

12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                     |                      |
|-------------------------------------------------------------------------------------|----------------------|
| Consumo medio de aire / Air consumption / Consommation d'air                        | 62 LPM (2,2 CFM)     |
| Bolsa para polvo / Dust bag / Sac à poussière                                       | Cod. 87940           |
| Ø Int. manguera / Ø Int. hose / Ø Int. tuyau                                        | 3/8"                 |
| Potencia / Power / Puissance                                                        | 0,22 kW              |
| RPM                                                                                 | 12000                |
| Orbital-orbita Ø / Pad-orbit Ø / Orbitale-orbite Ø                                  | 6"- 5 mm             |
| Bolsa para polvo incluida / Dust bag included / Sac à poussière inclus              | ●                    |
| Mandril / Spindle / Mandrin                                                         | 5/16"-24             |
| Presión de trabajo / Working pressure / Pression de travail                         | 6,3 bar / 90 PSI     |
| Vibración / Vibration / Vibration                                                   | 4,5 m/s <sup>2</sup> |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore           | 96,2 dBA             |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore          | 85,2 dBA             |
| Entrada de aire / Air inlet / Entrée d'air                                          | 1/4"                 |
| Disco de velcro 6"-5 mm / Velcro disc 6"- 5 mm / Disque de polissage velcro 6"-5 mm | Cod. 87941           |



**ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

| COD.         | Descripción / Description / Description       |
|--------------|-----------------------------------------------|
| <b>87940</b> | Bolsa para polvo / Dust bag / Sac à poussière |



| COD.         | Descripción / Description / Description                    | inch | mm |
|--------------|------------------------------------------------------------|------|----|
| <b>87941</b> | Disco de velcro / Velcro disc / Disque de polissage velcro | 6    | 5  |



**SIN BOLSA / WITHOUT BAG / SANS SAC / OHNE TASCHE / SENZA BORSA / SEM SACO / БЕЗ СУМКИ**

| COD.         | CAP.      | R.P.M. | L (mm) | Kg   |
|--------------|-----------|--------|--------|------|
| <b>57075</b> | 6"-2,5 mm | 12000  | 150    | 0,85 |

12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                            |                      |
|--------------------------------------------------------------------------------------------|----------------------|
| Consumo medio de aire / Air consumption / Consommation d'air                               | 62 LPM (2,2 CFM)     |
| Ø Int. manguera / Ø Int. hose / Ø Int. tuyau                                               | 3/8"                 |
| Potencia / Power / Puissance                                                               | 0,22 kW              |
| RPM                                                                                        | 12000                |
| Orbital-orbita Ø / Pad-orbit Ø / Orbitale-orbite Ø                                         | 6"- 2,5 mm           |
| Mandril / Spindle / Mandrin                                                                | 5/16"-24             |
| Presión de trabajo / Working pressure / Pression de travail                                | 6,3 bar / 90 PSI     |
| Vibración / Vibration / Vibration                                                          | 3,7 m/s <sup>2</sup> |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore                  | 88,2 dBA             |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore                 | 77,2 dBA             |
| Entrada de aire / Air inlet / Entrée d'air                                                 | 1/4"                 |
| Disco de velcro 6"-2,5 mm / Velcro disc 6"- 2,5 mm / Disque de polissage velcro 6"- 2,5 mm | Cod. 87942           |




**ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

| COD.         | Descripción / Description / Description                           |  inch |  mm |
|--------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>87942</b> | Disco de velcro / <i>Velcro disc</i> / Disque de polissage velcro | 6                                                                                      | 2,5                                                                                   |



**DE BANDA / BELT SANDER / À BANDE / BANDSCHEIFMASCHINE / A NASTRO / DE CINTA / ЛЕНТОЧНАЯ**

**330 X 10 (MM)**

| COD.         | Banda / Belt / Bande | R.P.M. | L (mm) |  Kg |
|--------------|----------------------|--------|--------|---------------------------------------------------------------------------------------|
| <b>57076</b> | 10 x 330 mm          | 16000  | 260    | 0,9                                                                                   |



12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                   |                                           |
|-----------------------------------------------------------------------------------|-------------------------------------------|
| Consumo medio de aire / <i>Air consumption</i> / Consommation d'air               | 80 LPM (2,8 CFM)                          |
| Ø Int. manguera / <i>Ø Int. hose</i> / Ø Int. tuyau                               | 3/8"                                      |
| Potencia / <i>Power</i> / Puissance                                               | 0,28 kW                                   |
| RPM                                                                               | 16000                                     |
| Banda (3 pcs) / <i>Belt (3 pcs)</i> / Bande (3 pcs)                               | 10 x 330 mm (1 pc-80 gr / 2 pcs - 120 gr) |
| Presión de trabajo / <i>Working pressure</i> / Pression de travail                | 6,3 bar / 90 PSI                          |
| Vibración / <i>Vibration</i> / Vibration                                          | <2,5 m/s <sup>2</sup>                     |
| Nivel de potencia sonora / <i>Noise power level</i> / Niveau de puissance sonore  | 93,4 dBA                                  |
| Nivel de presión sonora / <i>Noise pressure level</i> / Niveau de pression sonore | 82,4 dBA                                  |
| Entrada de aire / <i>Air inlet</i> / Entrée d'air                                 | 1/4"                                      |
| Banda 10 x 330 mm / <i>Belt 10 x 330 mm</i> / Bande 10 x 330 mm                   | Cod. 87943: 80 gr / Cod. 87944: 120 gr    |

**ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**


| COD.         | Descripción / Description / Description |  g | Grano / Grain / Grain |
|--------------|-----------------------------------------|---------------------------------------------------------------------------------------|-----------------------|
| <b>87943</b> | Banda / Belt / Bande                    | 3,5                                                                                   | 80                    |



| COD.         | Descripción / Description / Description |  g | Grano / Grain / Grain |
|--------------|-----------------------------------------|---------------------------------------------------------------------------------------|-----------------------|
| <b>87944</b> | Banda / Belt / Bande                    | 2,9                                                                                   | 120                   |



**520 X 20 (MM)**

| COD.         | Banda / Belt / Bande | R.P.M. | L (mm) |  Kg |
|--------------|----------------------|--------|--------|-----------------------------------------------------------------------------------------|
| <b>57077</b> | 20 x 520 mm          | 16000  | 340    | 1,2                                                                                     |




12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                   |                       |
|-----------------------------------------------------------------------------------|-----------------------|
| Consumo medio de aire / <i>Air consumption</i> / Consommation d'air               | 80 LPM (2,8 CFM)      |
| Ø Int. manguera / <i>Ø Int. hose</i> / Ø Int. tuyau                               | 3/8"                  |
| Potencia / <i>Power</i> / Puissance                                               | 0,373 kW              |
| RPM                                                                               | 16000                 |
| Banda (3 pcs) / <i>Belt (3 pcs)</i> / Bande (3 pcs)                               | 20 x 520 mm           |
| Presión de trabajo / <i>Working pressure</i> / Pression de travail                | 6,3 bar / 90 PSI      |
| Vibración / <i>Vibration</i> / Vibration                                          | <2,5 m/s <sup>2</sup> |
| Nivel de potencia sonora / <i>Noise power level</i> / Niveau de puissance sonore  | 95,4 dBA              |
| Nivel de presión sonora / <i>Noise pressure level</i> / Niveau de pression sonore | 84,4 dBA              |
| Entrada de aire / <i>Air inlet</i> / Entrée d'air                                 | 1/4"                  |
| Banda 20 x 520 mm / <i>Belt 20 x 520 mm</i> / Bande 20 x 520 mm                   | Cod. 87945            |


**ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

| COD.         | Descripción / Description / Description |  g |
|--------------|-----------------------------------------|---------------------------------------------------------------------------------------|
| <b>87945</b> | Banda / Belt / Bande                    | 11                                                                                    |



**12M** GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

AMOLADORAS RECTAS NEUMÁTICAS / PNEUMATIC STRAIGHT GRINDERS / MEULEUSES DROITES PNEUMATIQUES / PNEUMATISCHE GERADSCHEIFER / SMERIGLIATRICI DRITE PNEUMATICHE / ESMERILADORAS RECTAS PNEUMÁTICAS / ПРЯМАЯ ШЛИФОВАЛЬНАЯ МАШИНА ПНЕВМАТИЧЕСКАЯ

| COD.         | CAP. | R.P.M. | L (mm) |  |
|--------------|------|--------|--------|------------------------------------------------------------------------------------|
| <b>57078</b> | 6 mm | 22000  | 180    | 0,6                                                                                |


12M



ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                            |                      |
|----------------------------------------------------------------------------|----------------------|
| Consumo medio de aire / Air consumption / Consommation d'air               | 80 LPM (2,8 CFM)     |
| Potencia / Power / Puissance                                               | 0,373 kW             |
| RPM                                                                        | 22000                |
| Diámetro pinza / Collet diameter / Diamètre pince                          | 6 mm                 |
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI     |
| Vibración / Vibration / Vibration                                          | 2,5 m/s <sup>2</sup> |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore  | 90,5 dBA             |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 79,5 dBA             |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"                 |
| Ø Int. manguera / Ø Int. hose / Ø Int. tuyau                               | 3/8"                 |

AMOLADORAS ANGULARES NEUMÁTICAS / PNEUMATIC ANGLE GRINDERS / MEULEUSES ANGULAIRES PNEUMATIQUES / PNEUMATISCHE WINKELSCHLEIFER / SEMRIGLIATRICI ANGOLARI PNEUMATICHE / ESMERILADORAS ANGULARES PNEUMÁTICAS / УГЛОВАЯ ШЛИФОВАЛЬНАЯ МАШИНА ПНЕВМАТИЧЕСКАЯ


| COD.         | CAP. | R.P.M. | L (mm) |  |
|--------------|------|--------|--------|------------------------------------------------------------------------------------|
| <b>57079</b> | 6 mm | 18000  | 180    | 0,7                                                                                |

12M



ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                            |                    |
|----------------------------------------------------------------------------|--------------------|
| Consumo medio de aire / Air consumption / Consommation d'air               | 80 LPM (2,8 CFM)   |
| Potencia / Power / Puissance                                               | 0,373 kW           |
| RPM                                                                        | 18000              |
| Diámetro pinza / Collet diameter / Diamètre pince                          | 6 mm               |
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI   |
| Vibración / Vibration / Vibration                                          | 6 m/s <sup>2</sup> |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore  | 88,3 dBA           |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 77,3 dBA           |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"               |
| Ø Int. manguera / Ø Int. hose / Ø Int. tuyau                               | 3/8"               |

| COD.         | CAP.   | R.P.M. | L (mm) |  |
|--------------|--------|--------|--------|--------------------------------------------------------------------------------------|
| <b>57080</b> | 125 mm | 11000  | 230    | 2,1                                                                                  |


12M



ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                            |                      |
|----------------------------------------------------------------------------|----------------------|
| Consumo medio de aire / Air consumption / Consommation d'air               | 98 LPM (3,5 CFM)     |
| Ø Int. manguera / Ø Int. hose / Ø Int. tuyau                               | 3/8"                 |
| Potencia / Power / Puissance                                               | 0,5 kW               |
| RPM                                                                        | 11000                |
| Ø Int. Disco / Flange size / Int. disque                                   | 30 mm                |
| Capacidad / Capacity / Capacité                                            | 125 mm               |
| Mandril / Spindle / Mandrin                                                | M14                  |
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI     |
| Vibración / Vibration / Vibration                                          | 7,7 m/s <sup>2</sup> |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore  | 94,8 dBA             |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 83,7 dBA             |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"                 |
| Disco no incluido / Disc not included / Disque non inclus                  | ●                    |

LIJADORAS VERTICALES NEUMÁTICAS / VERTICAL PNEUMATIC SANDERS / PONCEUSES VERTICALES PNEUMATIQUES / VERTIKALE PNEUMATIK SCHLEIFMASCHINEN / PULITRICI VERTICALI PNEUMATICHE / LIXADORAS VERTICAIS PNEUMÁTICAS / ВЕРТИКАЛЬНАЯ ПНЕВМАТИЧЕСКАЯ ШЛИФОВАЛЬНАЯ МАШИНКА

| COD.  | CAP.   | R.P.M. | L (mm) |  |
|-------|--------|--------|--------|------------------------------------------------------------------------------------|
| 57081 | 178 mm | 7000   | 180    | 3,2                                                                                |

12M

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                            |                      |
|----------------------------------------------------------------------------|----------------------|
| Consumo medio de aire / Air consumption / Consommation d'air               | 127 LPM (4,5 CFM)    |
| Ø Int. manguera / Ø Int. hose / Ø Int. tuyau                               | 3/8"                 |
| Potencia / Power / Puissance                                               | 1,7 kW               |
| RPM                                                                        | 7000                 |
| Capacidad / Capacity / Capacité                                            | 178 mm               |
| Mandril / Spindle / Mandrin                                                | 5/8"-11              |
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI     |
| Vibración / Vibration / Vibration                                          | 8,3 m/s <sup>2</sup> |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore  | 97,9 dBA             |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 86,9 dBA             |
| Entrada de aire / Air inlet / Entrée d'air                                 | 3/8"                 |
| Disco no incluido / Disc not included / Disque non inclus                  | ●                    |



MARTILLO NEUMÁTICO / PNEUMATIC HAMMER / MARTEAU PNEUMATIQUE / PNEUMATISCHE HAMMER / MARTELLO PNEUMATICO / MARTELO PNEUMÁTICO / МОЛОТОК ПНЕВМАТИЧЕСКИЙ

| COD.  | CAP.  | B.P.M. | L (mm) |  |
|-------|-------|--------|--------|-------------------------------------------------------------------------------------|
| 57082 | 10 mm | 3500   | 170    | 2,0                                                                                 |

12M

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                            |                     |
|----------------------------------------------------------------------------|---------------------|
| Consumo medio de aire / Air consumption / Consommation d'air               | 56 LPM (2 CFM)      |
| BPM                                                                        | 3500                |
| Recorrido del pistón / Piston stroke / Parcours du piston                  | 66 mm               |
| Vástago hexagonal / Hexagonal shank / Tige Hexagonal                       | 10 mm               |
| Ø Eje / Bore Ø / Axe Ø                                                     | 19 mm               |
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI    |
| Vibración / Vibration / Vibration                                          | 15 m/s <sup>2</sup> |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore  | 104 dBA             |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 103 dBA             |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"                |
| Ø Int. manguera / Ø Int. hose / Ø Int. tuyau                               | 3/8"                |



BE SAFE...BE EFFICIENT

**CINCELES OPCIONALES / OPTIONAL CHISELS / BURINS OPTIONNELS / OPTIONALE MEISSEL / SCALPELLO OPZIONALE / ESCOPROS OPCIONAIS / ЗУБИЛО ДОПОЛНИТЕЛЬНОЕ**

| COD.  | Descripción / Description / Description                                                       | L (inch) | AF mm      |
|-------|-----------------------------------------------------------------------------------------------|----------|------------|
| 87946 | Cinzel plano / Flat chisel / Burin plat                                                       | 7        | HEX. 10 mm |
| 87947 | Cinzel de dos filos / Two edges chisel / Burin a double tranchant                             | 7        | HEX. 10 mm |
| 87948 | Cinzel tipo puntero / Pointed chisel / Burin à pointe                                         | 7        | HEX. 10 mm |
| 87949 | Cinzel tipo V / V type chisel / Burin type V                                                  | 7        | HEX. 10 mm |
| 87950 | Cinzel para soldaduras y juntas / Chisel for welding and joints / Burins à joint pour soudure | 7        | HEX. 10 mm |



**SIERRA DE CALAR NEUMÁTICA / PNEUMATIC BODY SAW / SCIE SAUTEUSE PNEUMATIQUE / PNEUMATISCHE STICHSÄGE / SEGA DA TRAFORO PNEUMATICA / SERRA ALTERNATIVA PNEUMATICA / ПИЛА ПНЕВМАТИЧЕСКАЯ**

| COD.  | Hoja / Blade / Lame | R.P.M. | L (mm) | Kg  |
|-------|---------------------|--------|--------|-----|
| 57083 | 24T-32T             | 10000  | 235    | 1,0 |

12M



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                            |                                   |
|----------------------------------------------------------------------------|-----------------------------------|
| Consumo medio de aire / Air consumption / Consommation d'air               | 113 LPM (4 CFM)                   |
| Ø Int. manguera / Ø Int. hose / Ø Int. tuyau                               | 3/8"                              |
| RPM                                                                        | 10000                             |
| Recorrido / Stroke / Parcours                                              | 10 mm                             |
| Hojas incluidas / Blades included / Lames incluses                         | 1pc-24T / 1pc-32T                 |
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI                  |
| Vibración / Vibration / Vibration                                          | 19,7 m/s <sup>2</sup>             |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore  | 96,7 dBA                          |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 85,7 dBA                          |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"                              |
| Hojas Bimat / Bimat Blades / Lames bimat                                   | Cod. 87951: 24T / Cod. 87952: 32T |

**ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

| COD.  | Descripción / Description / Description  | Hoja / Blade / Lame |
|-------|------------------------------------------|---------------------|
| 87951 | Hojas Bimat / Bimat blades / Lames bimat | 24T                 |
| 87952 | Hojas Bimat / Bimat blades / Lames bimat | 32T                 |



**DESPEGADOR DE PARABRISAS NEUMÁTICO / PNEUMATIC WINDSCREEN REMOVER / DÉCOLLEUR PARE-BRISÉS PNEUMATIQUE / PNEUMATISCHE WINDSCHUTZSCHEIBE AUSBAU / SMONTATORE DEI PARABREZZA PNEUMATICO / FAÇA DE PARABRISAS PNEUMÁTICA / СЪЕМНИК ВЕТРОВОГО СТЕКЛА ПНЕВМАТИЧЕСКИЙ**

| COD.  | R.P.M. | L (mm) | Kg  |
|-------|--------|--------|-----|
| 57084 | 20000  | 205    | 1,0 |

12M



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                            |                      |
|----------------------------------------------------------------------------|----------------------|
| Consumo medio de aire / Air consumption / Consommation d'air               | 110 LPM (3,9 CFM)    |
| Ø Int. manguera / Ø Int. hose / Ø Int. tuyau                               | 3/8"                 |
| Potencia / Power / Puissance                                               | 0,37 kW              |
| RPM                                                                        | 20000                |
| Presión de trabajo / Working pressure / Pression de travail                | 6,3 bar / 90 PSI     |
| Vibración / Vibration / Vibration                                          | 7,9 m/s <sup>2</sup> |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore  | 102,5 dBA            |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore | 91,5 dBA             |
| Entrada de aire / Air inlet / Entrée d'air                                 | 1/4"                 |
| Cuchilla / Blade / Lame                                                    | Cod. 87953           |

**ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

| COD.  | Descripción / Description / Description |
|-------|-----------------------------------------|
| 87953 | Cuchilla / Blade / Lame                 |



**ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

**PISTOLA DE AIRE COMPRIMIDO / AIR BLOW GUN / PISTOLET D'AIR COMPRIMÉ / DRUCKLUFTPISTOLE / PISTOLA D'ARIA COMPRESSA / PISTOLA DE AR COMPRIMIDO / ВОЗДУШНЫЙ ПИСТОЛЕТ**

| COD.  | Kg |
|-------|----|
| 55842 | 80 |

12M



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                             |                |
|-------------------------------------------------------------|----------------|
| Presión de trabajo / Working pressure / Pression de travail | 1 Mpa (10 bar) |
| Rosca hembra GAS / GAS Female thread / Filet femelle GAZ    | 1/4"           |
| Ø Tubo / Pipe Ø / Ø Tube                                    | 6 mm           |
| Longitud de la boquilla / Nose length / Longueur du tuyau   | 100 mm         |

**MANGUERA NEUMÁTICA ENROLLABLE / PNEUMATIC HOSE REEL / TUYAU PNEUMATIQUE ENROULABLE / DRUCKLUFTSCHLAUCH-AUFROLLER / AVVOLGITUBO / ENROLADOR DE MANGUEIRA / КАТУШКА ДЛЯ ШЛАНГА**

| COD.  | Kg  |
|-------|-----|
| 55843 | 4,5 |

12M



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                          |                  |
|--------------------------------------------------------------------------|------------------|
| Ø Tubo / Pipe Ø / Ø Tube                                                 | 10 mm            |
| Ø D.I Manguera / Hose I.D Ø / Ø D.I Tuyau d'arrosage                     | 3/8"             |
| Rosca / Thread / Filet                                                   | 1/4"             |
| Longitud / Length / Longueur                                             | 15 m             |
| Presión máx. de trabajo / Max working pressure / Pression max de travail | 20 bar / 300 PSI |

**ACOPLES NEUMÁTICOS RÁPIDOS DE SEGURIDAD / PNEUMATIC FAST SAFETY COUPLING / RACCORDS PNEUMATIQUES RAPIDES DE SÉCURITÉ / PNEUMATISCHE SCHNELL-SICHERHEITSKUPPLUNG WEIBLICH / INNESTI RAPIDI PNEUMATICI / ACOMPLAMENTOS RÁPIDOS DE SEGURANÇA PARA PNEUMÁTICA / ПЕРЕХОДНИКИ ДЛЯ ПНЕВМОИНСТРУМЕНТА**

**TIPO HOLANDES / DUTCH TYPE / TYPE NÉERLANDAIS / NIEDERLÄNDISCHE TYP / TIPO OLANDESE / TIPO HOLLANDES / ГОЛЛАНДСКИЙ ТИП**

| COD.         | Conexión / Connection / Connexion        |  |
|--------------|------------------------------------------|-----------------------------------------------------------------------------------|
| <b>58670</b> | 1/4" Hembra / 1/4" Female / 1/4" Femelle | 70                                                                                |




| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES         |            |
|----------------------------------------------------------------------------------|------------|
| Caudal max. / Max. flow rate / Débit max.                                        | 1558 L/Min |
| Máxima presión de trabajo / Maximum operating pressure / Pression max de travail | 10 bar     |
| Temperatura de trabajo / Working temperature / Température de travail            | -20 ~ 80°C |

| COD.         | Conexión / Connection / Connexion  |  |
|--------------|------------------------------------|-----------------------------------------------------------------------------------|
| <b>58671</b> | 1/4" Macho / 1/4" Male / 1/4" Male | 60                                                                                |



| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES         |            |
|----------------------------------------------------------------------------------|------------|
| Caudal max. / Max. flow rate / Débit max.                                        | 1558 L/Min |
| Máxima presión de trabajo / Maximum operating pressure / Pression max de travail | 12 bar     |
| Temperatura de trabajo / Working temperature / Température de travail            | -20 ~ 80°C |

| COD.         | Conexión / Connection / Connexion      |  |
|--------------|----------------------------------------|-----------------------------------------------------------------------------------|
| <b>58672</b> | Manguera 10mm / Hose 10mm / Tuyau 10mm | 60                                                                                |



| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES         |            |
|----------------------------------------------------------------------------------|------------|
| Caudal max. / Max. flow rate / Débit max.                                        | 1558 L/Min |
| Máxima presión de trabajo / Maximum operating pressure / Pression max de travail | 10 bar     |
| Temperatura de trabajo / Working temperature / Température de travail            | -20 ~ 80°C |

**TIPO ESPAÑOL Y NORTEAMERICANO / SPANISH AND NORTH AMERICAN TYPE / TYPE ESPAGNOL ET NORD-AMÉRICAIN / SPANISCHER UND NORDAMERIKANISCHER TYP / TIPO SPAGNOLO E NORD AMERICANO / TIPO ESPANHOL E AMERICANO / ИСПАНСКИЙ/СЕВЕРОАМЕРИКАНСКИЙ ТИП**

| COD.         | Conexión / Connection / Connexion        |  |
|--------------|------------------------------------------|-------------------------------------------------------------------------------------|
| <b>58673</b> | 1/4" Hembra / 1/4" Female / 1/4" Femelle | 70                                                                                  |




| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES         |            |
|----------------------------------------------------------------------------------|------------|
| Caudal max. / Max. flow rate / Débit max.                                        | 1558 L/Min |
| Máxima presión de trabajo / Maximum operating pressure / Pression max de travail | 10 bar     |
| Temperatura de trabajo / Working temperature / Température de travail            | -20 ~ 80°C |

| COD.         | Conexión / Connection / Connexion  |  |
|--------------|------------------------------------|-------------------------------------------------------------------------------------|
| <b>58674</b> | 1/4" Macho / 1/4" Male / 1/4" Male | 60                                                                                  |



| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES         |            |
|----------------------------------------------------------------------------------|------------|
| Caudal max. / Max. flow rate / Débit max.                                        | 1558 L/Min |
| Máxima presión de trabajo / Maximum operating pressure / Pression max de travail | 12 bar     |
| Temperatura de trabajo / Working temperature / Température de travail            | -20 ~ 80°C |

| COD.         | Conexión / Connection / Connexion      |  |
|--------------|----------------------------------------|-------------------------------------------------------------------------------------|
| <b>58675</b> | Manguera 10mm / Hose 10mm / Tuyau 10mm | 60                                                                                  |



| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES         |            |
|----------------------------------------------------------------------------------|------------|
| Caudal max. / Max. flow rate / Débit max.                                        | 1558 L/Min |
| Máxima presión de trabajo / Maximum operating pressure / Pression max de travail | 10 bar     |
| Temperatura de trabajo / Working temperature / Température de travail            | -20 ~ 80°C |



**TIPO ALEMÁN / GERMAN TYPE / TYPE ALLEMAND / DEUTSCHES TYP / TIPO TEDESCO / TIPO ALEMÃO / НЕМЕЦКИЙ ТИП**

| COD.         | Conexión / Connection / Connexion        |  |
|--------------|------------------------------------------|-----------------------------------------------------------------------------------|
| <b>58676</b> | 1/4" Hembra / 1/4" Female / 1/4" Femelle | 70                                                                                |




| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES         |            |  |
|----------------------------------------------------------------------------------|------------|--|
| Caudal max. / Max. flow rate / Débit max.                                        | 1982 L/Min |  |
| Máxima presión de trabajo / Maximum operating pressure / Pression max de travail | 10 bar     |  |
| Temperatura de trabajo / Working temperature / Température de travail            | -20 ~ 80°C |  |

| COD.         | Conexión / Connection / Connexion  |  |
|--------------|------------------------------------|-----------------------------------------------------------------------------------|
| <b>58677</b> | 1/4" Macho / 1/4" Male / 1/4" Male | 60                                                                                |



| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES         |            |  |
|----------------------------------------------------------------------------------|------------|--|
| Caudal max. / Max. flow rate / Débit max.                                        | 1982 L/Min |  |
| Máxima presión de trabajo / Maximum operating pressure / Pression max de travail | 10 bar     |  |
| Temperatura de trabajo / Working temperature / Température de travail            | -20 ~ 80°C |  |

| COD.         | Conexión / Connection / Connexion      |  |
|--------------|----------------------------------------|-----------------------------------------------------------------------------------|
| <b>58678</b> | Manguera 10mm / Hose 10mm / Tuyau 10mm | 65                                                                                |



| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES         |            |  |
|----------------------------------------------------------------------------------|------------|--|
| Caudal max. / Max. flow rate / Débit max.                                        | 1982 L/Min |  |
| Máxima presión de trabajo / Maximum operating pressure / Pression max de travail | 10 bar     |  |
| Temperatura de trabajo / Working temperature / Température de travail            | -20 ~ 80°C |  |

**TIPO JAPONÉS / JAPANESE TYPE / TYPE JAPONAIS / JAPANISCHER TYP / TIPO GIAPPONESE / TIPO JAPONÉS / ЯПОНСКИЙ ТИП**

| COD.         | Conexión / Connection / Connexion        |  |
|--------------|------------------------------------------|-------------------------------------------------------------------------------------|
| <b>58679</b> | 1/4" Hembra / 1/4" Female / 1/4" Femelle | 95                                                                                  |




| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES         |            |  |
|----------------------------------------------------------------------------------|------------|--|
| Caudal max. / Max. flow rate / Débit max.                                        | 2124 L/Min |  |
| Máxima presión de trabajo / Maximum operating pressure / Pression max de travail | 10 bar     |  |
| Temperatura de trabajo / Working temperature / Température de travail            | -20 ~ 80°C |  |

| COD.         | Conexión / Connection / Connexion  |  |
|--------------|------------------------------------|-------------------------------------------------------------------------------------|
| <b>58680</b> | 1/4" Macho / 1/4" Male / 1/4" Male | 70                                                                                  |



| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES         |            |  |
|----------------------------------------------------------------------------------|------------|--|
| Caudal max. / Max. flow rate / Débit max.                                        | 2124 L/Min |  |
| Máxima presión de trabajo / Maximum operating pressure / Pression max de travail | 10 bar     |  |
| Temperatura de trabajo / Working temperature / Température de travail            | -20 ~ 80°C |  |

| COD.         | Conexión / Connection / Connexion      |  |
|--------------|----------------------------------------|-------------------------------------------------------------------------------------|
| <b>58681</b> | Manguera 10mm / Hose 10mm / Tuyau 10mm | 75                                                                                  |



| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES         |            |  |
|----------------------------------------------------------------------------------|------------|--|
| Caudal max. / Max. flow rate / Débit max.                                        | 2124 L/Min |  |
| Máxima presión de trabajo / Maximum operating pressure / Pression max de travail | 10 bar     |  |
| Temperatura de trabajo / Working temperature / Température de travail            | -20 ~ 80°C |  |

# PROYECTOS PRINCIPALES

## *MAIN PROJECTS*

# PRINCIPAUX PROJETS



**TAQA ROSA**

**CENTRAL ELÉCTRICA / POWER PLANT /  
CENTRALE ÉLECTRIQUE**

GHANA



13

**HERRAMIENTA ELECTROPORTÁTIL**

**BATTERY TOOLS**

**OUTIL ÉLECTROPORTATIF**

**AKKU-WERKZEUGE**

**UTENSILI ELETTRICI PORTATILI**

**FERRAMENTA ELETROPORTÁTIL**

**ПОРТАТИВНЫЙ ЭЛЕКТРОИНСТРУМЕНТ**



El taladro atornillador a batería de EGA Master es ideal para todo tipo de operaciones de perforación y fijación.

La batería de Ion-litio asegura el máximo rendimiento, durabilidad y una larga vida de la misma.

*EGA Master cordless drill is ideal for a wide range of drilling and fastening applications.*

*Its Lithium Ion battery ensures maximum performance, durability and battery life.*

La perceuse visseuse à batterie de EGA Master est idéale pour tous types d'opérations de perforation ou de fixation.

La batterie en Ion-Lithium assure un rendement optimal, durabilité et la longue vie de celle-ci.

**1**  
Carcasa y engranajes planetarios íntegramente metálicos asegurando el máximo rendimiento.  
*Completely metallic planetary gears and housing, ensuring the maximum performance.*  
Carcasse et engrenages planétaires complètement métalliques assurent un rendement optimal.

**2**  
Mango ergonómico para un cómodo agarre.  
*Ergonomic handle provides comfortable gripping.*  
Manche ergonomique pour une prise confortable.

**3**  
Interruptor de velocidad variable para un máximo control.  
*Variable speed switch for maximum control.*  
Interrupteur de vitesse variable pour un contrôle maximal.

**4**  
Transmisión con función de bloqueo y accionamiento único.  
*Gear box with spindle lock function and single sleeve chuck.*  
Transmission avec fonction de blocage et actionnement unique.

**5**  
Embrague: 17 posiciones.  
*17 positions clutch.*  
Embrayage : 17 positions.

**6**  
Gancho para cinturón.  
*Includes belt clip.*  
Crochet pour ceinture.

**\***  
Certificados: RoHs, Reach, CE  
*Certificates: RoHs, Reach, CE*  
Certificats : RoHs, Reach, CE



■ **ENSAMBLAJE / ASSEMBLY TOOLS / ASSEMBLAGE / MONTAGEWERKZEUGE / ASSEMBLAGGIO / MONTAGEM / СБОРКА**

■ **LLAVE DE IMPACTO / IMPACT WRENCH / CLE À CHOC / SCHLAGSCHRAUBER / AVVITATORE AD IMPULSI / CHAVE DE IMPACTO / УДАРНЫЙ ВИНТОВЕРТ**

| COD.         |  | V   | Bat.   | Nm/Lb.ft |  |
|--------------|-----------------------------------------------------------------------------------|-----|--------|----------|-------------------------------------------------------------------------------------|
| <b>59126</b> | 1/2"                                                                              | 18V | Li-Ion | 850/627  | 2,3                                                                                 |

CE I 12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                               |                                                            |
|---------------------------------------------------------------|------------------------------------------------------------|
| Reversible / Reversible / Réversible                          | ●                                                          |
| Velocidad en vacío / Free speed / Vitesse à vide              | 900 rpm (L); 1200 rpm (M); 1900 rpm (H); 500 rpm (reverse) |
| Impactos por minuto / Impacts per minute / Impacts par minute | 1200 ipm (L); 1600 ipm (M); 2400 ipm (H)                   |
| Par máx. / Torque max. / Paire max.                           | 300 Nm (L); 600 Nm (M); 850 Nm (H)                         |
| Motor sin escobillas / Brushless motor / Moteur sans charbon  | ●                                                          |

**EQUIPADO CON / EQUIPED WITH / EQUIPE**

|                                                              |
|--------------------------------------------------------------|
| 2 baterías / 2 batteries / 2 batteries                       |
| Estación de carga / Charging station / Station de chargement |
| Maleta / Case / Malette                                      |



■ **ACCESORIOS / ACCESSORIES / ACCESSOIRES / ZUBEHÖR / ACCESSORI / ACCESORIOS / ЗАПАСНЫЕ ЧАСТИ**

| COD.         | Descripción / Description / Description | V   | Válido para / Valid for / Valable pour |
|--------------|-----------------------------------------|-----|----------------------------------------|
| <b>59128</b> | Batería / Battery / Batterie            | 18V | 59126                                  |



| COD.         | Descripción / Description / Description | V   | Válido para / Valid for / Valable pour |
|--------------|-----------------------------------------|-----|----------------------------------------|
| <b>59129</b> | Cargador / Charger / Chargeur           | 18V | 59126                                  |



■ **TALADRADO / DRILLING / PERÇAGE / BOHREN / TRAPANO / PERFURADO / СВЕРЛЕНИЕ**

■ **TALADRO ATORNILLADOR A BATERÍA / CORDLESS DRILL / DRIVER / PERCEUSE-VISSEUSE À BATTERIE / AKKU-BOHRMASCHINE / TRAPANO AVVITATORE A BATTERIA / BERBEQUIM / АПАРАФУСАДОРА А БАТЕРІА / АККУМУЛЯТОРНАЯ ДРЕЛЬ/ШУРУПОВЕРТ**

| COD.         | V   | Bat.   | Nm/Lb.ft | CAP. (mm) |  |
|--------------|-----|--------|----------|-----------|---------------------------------------------------------------------------------------|
| <b>58887</b> | 18V | Li-Ion | 45/33    | 13        | 2,2                                                                                   |

CE I 12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                              |                                        |
|--------------------------------------------------------------|----------------------------------------|
| Pares prefijados / Preset Torque values / Paires Préétablies | 15 + Broca / 15 + Drilling / 15+ Mèche |
| Velocidad en vacío / Free speed / Vitesse à vide             | 340-1220 rpm                           |
| Reversible / Reversible / Réversible                         | ●                                      |

**EQUIPADO CON / EQUIPED WITH / EQUIPE**

|                                                              |
|--------------------------------------------------------------|
| Batería / Battery / Batterie                                 |
| Estación de carga / Charging station / Station de chargement |
| Gancho para cinturón / Belt clip / Attache pour ceinture     |
| Maleta / Case / Malette                                      |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

|                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Carcasa y engranajes planetarios íntegramente metálicos / Completely metallic planetary gears and housing / Carcasse et engrenages planétaires complètement métalliques |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



**ACCESORIOS / ACCESSORIES / ACCESSOIRES / ZUBEHÖR / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

| COD.         | Descripción / Description / Description | V   | Válido para / Valid for / Valable pour |
|--------------|-----------------------------------------|-----|----------------------------------------|
| <b>59056</b> | Batería / Battery / Batterie            | 18V | 58887                                  |

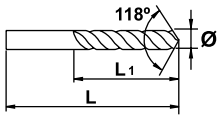


| COD.         | Descripción / Description / Description | V   | Válido para / Valid for / Valable pour |
|--------------|-----------------------------------------|-----|----------------------------------------|
| <b>58890</b> | Cargador / Charger / Chargeur           | 18V | 58887                                  |



**BROCAS / TWIST DRILL / MÉCHES / BOHRER / PUNTE PER TRAPANO / BROCAS / СВЕРЛА**

**HSS**



| COD.  | Ø O.D. mm | L (mm) | L1 (mm) | g  | Icon |
|-------|-----------|--------|---------|----|------|
| 66281 | 0,5       | 22     | 6       |    |      |
| 66282 | 1         | 34     | 12      |    |      |
| 66283 | 1,2       | 38     | 16      | 1  |      |
| 66284 | 1,5       | 40     | 18      |    |      |
| 66285 | 1,7       | 43     | 20      |    |      |
| 66286 | 2         | 49     | 24      |    |      |
| 66287 | 2,2       | 53     | 27      |    |      |
| 66288 | 2,5       | 57     | 30      | 2  |      |
| 66289 | 2,7       | 61     | 33      |    |      |
| 66290 | 3         | 75     | 43      |    |      |
| 66291 | 3,2       | 65     | 36      | 3  |      |
| 66292 | 3,3       |        |         |    |      |
| 66293 | 3,5       | 70     | 39      | 4  |      |
| 66294 | 3,7       |        |         |    |      |
| 66295 | 4         |        |         |    |      |
| 66296 | 4,2       | 75     | 43      | 5  |      |
| 66297 | 4,3       |        |         |    |      |
| 66298 | 4,5       | 80     | 47      | 7  |      |
| 66299 | 4,7       |        |         |    |      |
| 66300 | 5         | 86     | 52      |    | 10   |
| 66301 | 5,2       |        |         | 8  |      |
| 66302 | 5,5       |        |         |    |      |
| 66303 | 5,7       | 93     | 57      | 9  |      |
| 66304 | 6         |        |         |    |      |
| 66305 | 6,2       |        |         | 10 |      |
| 66306 | 6,5       | 101    | 63      | 15 |      |
| 66307 | 6,7       |        |         |    |      |
| 66308 | 7         |        |         | 20 |      |
| 59108 | 7,25      | 109    | 69      | 25 |      |
| 66309 | 7,5       |        |         |    |      |
| 59109 | 7,75      |        |         |    |      |
| 66310 | 8         |        |         |    |      |
| 59110 | 8,25      | 117    | 75      | 30 |      |
| 66311 | 8,5       |        |         |    |      |
| 59111 | 8,75      |        |         |    |      |
| 66312 | 9         | 125    | 81      | 35 |      |
| 66313 | 9,5       |        |         | 40 |      |
| 66314 | 10        | 133    |         | 50 |      |
| 66375 | 10,5      | 135    | 87      | 55 |      |
| 66315 | 11        |        |         | 65 |      |
| 66316 | 11,5      | 142    | 94      |    | 5    |
| 66317 | 12        | 151    | 101     | 80 |      |



| COD.  | O.D.<br>mm | L (mm) | L1 (mm) | g   |   |
|-------|------------|--------|---------|-----|---|
| 66318 | 12,5       | 151    | 101     | 80  |   |
| 66319 | 13         |        |         |     |   |
| 66320 | 14         | 160    | 108     | 85  |   |
| 66321 | 15         |        |         |     | 5 |
| 66322 | 16         | 178    | 120     | 100 |   |
| 66324 | 18         | 191    | 130     | 150 |   |
| 66326 | 20         | 205    | 140     | 200 |   |

DIN 338

## KIT

| COD.  | PCS. | Rango (mm) / Range (mm) / Rang (mm)                      | g   |
|-------|------|----------------------------------------------------------|-----|
| 66327 | 19   | 1-1,5-2-2,5-3-3,5-4-4,5-5-5,5-6-6,5-7-7,5-8-8,5-9-9,5-10 | 300 |

DIN 338

| PCS. | Composición / Composition / Composition | Descripción / Description / Description | Ø (mm) |
|------|-----------------------------------------|-----------------------------------------|--------|
|      | 66282                                   |                                         | 1      |
|      | 66284                                   |                                         | 1,5    |
|      | 66286                                   |                                         | 2      |
|      | 66288                                   |                                         | 2,5    |
|      | 66290                                   |                                         | 3      |
|      | 66293                                   |                                         | 3,5    |
|      | 66295                                   |                                         | 4      |
|      | 66298                                   |                                         | 4,5    |
|      | 66300                                   |                                         | 5      |
| 1    | 66302                                   | Brocas / Twist drills                   | 5,5    |
|      | 66304                                   |                                         | 6      |
|      | 66306                                   |                                         | 6,5    |
|      | 66308                                   |                                         | 7      |
|      | 66309                                   |                                         | 7,5    |
|      | 66310                                   |                                         | 8      |
|      | 66311                                   |                                         | 8,5    |
|      | 66312                                   |                                         | 9      |
|      | 66313                                   |                                         | 9,5    |
|      | 66314                                   |                                         | 10     |



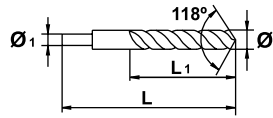
| COD.  | PCS. | Rango (mm) / Range (mm) / Rang (mm)                                              | g   |
|-------|------|----------------------------------------------------------------------------------|-----|
| 66328 | 25   | 1-1,5-2-2,5-3-3,5-4-4,5-5-5,5-6-6,5-7-7,5-8-8,5-9-9,5-10-10,5-11-11,5-12-12,5-13 | 750 |

DIN 338

| PCS. | Composición / Composition / Composition | Descripción / Description / Description | Ø (mm) |
|------|-----------------------------------------|-----------------------------------------|--------|
|      | 66282                                   |                                         | 1      |
|      | 66284                                   |                                         | 1,5    |
|      | 66286                                   |                                         | 2      |
|      | 66288                                   |                                         | 2,5    |
|      | 66290                                   |                                         | 3      |
|      | 66293                                   |                                         | 3,5    |
|      | 66295                                   |                                         | 4      |
|      | 66298                                   |                                         | 4,5    |
|      | 66300                                   |                                         | 5      |
|      | 66302                                   |                                         | 5,5    |
| 1    | 66304                                   | Brocas / Twist drills                   | 6      |
|      | 66306                                   |                                         | 6,5    |
|      | 66308                                   |                                         | 7      |
|      | 66309                                   |                                         | 7,5    |
|      | 66310                                   |                                         | 8      |
|      | 66311                                   |                                         | 8,5    |
|      | 66312                                   |                                         | 9      |
|      | 66313                                   |                                         | 9,5    |
|      | 66314                                   |                                         | 10     |
|      | 66375                                   |                                         | 10,5   |
|      | 66315                                   |                                         | 11     |



| PCS. | Composición / Composition / Composition | Descripción / Description / Description | Ø (mm) |
|------|-----------------------------------------|-----------------------------------------|--------|
| 1    | 66316                                   | Brocas / Twist drills                   | 11,5   |
|      | 66317                                   |                                         | 12     |
|      | 66318                                   |                                         | 12,5   |
|      | 66319                                   |                                         | 13     |



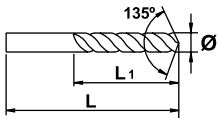
**HSS STANDARD REDUCIDA / HSS DRILL BIT WITH REDUCED SHANK / HSS TANDARD RÉDUIT / HSS BOHRER MIT REDUZIERTEM SCHAFT / HSS STANDARD RIDOTTA / BROCA HSS COM CONE REDUZIDO / СВЕРЛО HSS С УМЕНЬШЕННЫМ ХВОСТОВИКОМ**

| COD.  | Ø D. mm | Ø 1 (mm) | L (mm) | L1 (mm) | g   | Icon |
|-------|---------|----------|--------|---------|-----|------|
| 66376 | 13,5    | 12,7     | 160    | 108     | 100 | 1    |
| 66377 | 14      |          |        |         |     |      |
| 66378 | 14,5    |          |        |         |     |      |
| 66379 | 15      |          |        |         |     |      |
| 66380 | 15,5    |          |        |         |     |      |
| 66381 | 16      |          |        |         |     |      |
| 66382 | 16,5    |          |        |         |     |      |
| 66383 | 17      |          |        |         |     |      |
| 66272 | 17,5    |          |        |         |     |      |
| 66273 | 18      |          |        |         |     |      |
| 66274 | 18,5    |          |        |         |     |      |
| 66275 | 19      |          |        |         |     |      |
| 66276 | 19,5    |          |        |         |     |      |
| 66277 | 20      |          |        |         |     |      |



DIN 338

**HSS-CO**



| COD.  | Ø D. mm | L (mm) | L1 (mm) | g | Icon |
|-------|---------|--------|---------|---|------|
| 66329 | 1       | 34     | 12      | 1 | 10   |
| 66330 | 1,25    | 38     | 16      |   |      |
| 66331 | 1,5     | 40     | 18      |   |      |
| 66332 | 1,75    | 46     | 22      |   |      |
| 66333 | 2       | 49     | 24      |   |      |
| 66334 | 2,25    | 53     | 27      |   |      |
| 66335 | 2,5     | 57     | 30      |   |      |
| 66336 | 2,75    | 61     | 33      |   |      |
| 66337 | 3       | 75     | 43      |   |      |
| 66338 | 3,25    | 65     | 36      |   |      |
| 66339 | 3,5     | 70     | 39      |   |      |
| 66340 | 3,75    | 75     | 39      |   |      |
| 66341 | 4       |        | 43      |   |      |
| 66342 | 4,25    | 47     |         |   |      |
| 66343 | 4,5     | 80     | 47      |   |      |
| 66344 | 4,75    | 86     | 52      |   |      |
| 66345 | 5       |        | 57      |   |      |
| 66346 | 5,25    | 93     | 57      |   |      |
| 66347 | 5,5     | 101    | 63      |   |      |
| 66348 | 5,75    |        | 69      |   |      |
| 66349 | 6       | 109    | 69      |   |      |
| 66350 | 6,25    |        | 69      |   |      |
| 66351 | 6,5     |        |         |   |      |
| 66352 | 6,75    |        |         |   |      |





| COD.  | O.D.<br>mm | L (mm) | L1 (mm) | g  |    |
|-------|------------|--------|---------|----|----|
| 66353 | 7          |        |         | 20 |    |
| 66354 | 7,25       | 109    | 69      |    |    |
| 66355 | 7,5        |        |         | 25 |    |
| 66360 | 7,75       |        |         |    | 10 |
| 66361 | 8          |        |         |    |    |
| 66362 | 8,25       | 117    | 75      |    |    |
| 66363 | 8,5        |        |         | 30 |    |
| 66364 | 8,75       |        |         |    |    |
| 66365 | 9          |        |         |    |    |
| 66366 | 9,25       | 125    | 81      | 35 |    |
| 66367 | 9,5        |        |         | 40 |    |
| 66368 | 9,75       |        |         |    |    |
| 66369 | 10         | 133    | 87      | 50 | 5  |
| 66370 | 10,5       |        |         | 65 |    |
| 66371 | 11,5       | 142    | 94      |    |    |
| 66372 | 12         |        |         | 80 |    |
| 66374 | 12,5       | 151    | 101     |    |    |

DIN 338



# PROYECTOS PRINCIPALES

## *MAIN PROJECT*

# PRINCIPAUX PROJETS



**NOV - National Oilwell Varco**

**PETRÓLEO Y GAS / OIL&GAS / PÉTROLE ET GAZ**

EEUU / USA / ÉTATS-UNIS



14

**LIMAS, ESCOFINAS, BOTADORES Y GRANETES**

**FILES, RASPS & PUNCHES**

**LIMES, RAPES, POINTEAUX ET CHASSES GOUPILLES**

**FEILEN, RASPELN, DURCHSCHLÄGER UND KÖRNER**

**LIMA, RASPE E PUNZONI**

**LIMAS, GROSAS E PUNÇÕES**

**НАПИЛЬНИКИ, РАШПИЛИ, МЕТЧИКИ**



La gama completa de limas y escofinas super-profesionales EGA Master ofrece soluciones a todas las necesidades de acabado.

*EGA Master super-professional file and rasp range offers solutions to all finishing needs.*

La gamme complète de limes et de râpes super professionnelles EGA Master donne une solution à tous les problèmes.

|                                                    |                                          | Debaste<br><i>Roughing</i><br>Bâtarde | Limado medio<br><i>Medium filing</i><br>Demi-douce | Afilado o limado fino<br><i>Sharpening or smooth filing</i><br>Douce |
|----------------------------------------------------|------------------------------------------|---------------------------------------|----------------------------------------------------|----------------------------------------------------------------------|
| Picado sencillo<br><i>Single cut</i><br>Une taille |                                          |                                       | ■                                                  | ■                                                                    |
| Picado doble<br><i>Double cut</i><br>Doble coupe   | Basto<br><i>Bastard</i><br>Bâtard        | ■                                     | ●                                                  |                                                                      |
|                                                    | Entrefino<br><i>Medium</i><br>Demi douce |                                       | ■                                                  | ●                                                                    |
|                                                    | Fino<br><i>Smooth</i><br>Douce           |                                       | ■                                                  | ■                                                                    |
| Escofina<br><i>Rasp</i><br>Râpe                    |                                          | ■                                     |                                                    |                                                                      |

● Aceptable / *Acceptable* / Acceptable    ■ Adecuado / *Appropriate* / Idéal



1

Acero alto en cromo y carbono.  
*High chrome and carbon steel.*  
Acier en haute teneur en chrome et carbone.

2

Templados hasta los 65 HRC.  
*Tempered up to 65HRC.*  
Trempe jusqu'à 65HRC.

3

Mango Bi-componente ergonómico y antideslizante BIMAT® de gran atractivo.  
*Highly attractive BIMAT® ergonomic and anti-slippery handle.*  
Manche bi-matière, ergonomique et anti-dérapant très attrayant.

4

Protección antioxidante.  
*Rust-proof treatment.*  
Protection anti-oxydation.

|                                                    |                                          | Fundición<br><i>Casting</i><br>Fonte | Acero sin templar<br><i>Non Tempered alloy</i><br>Acier | Acero de alta aleación<br><i>High Alloy steel</i><br>Alliage d'acier | Latón bronce<br><i>Brass Bronze</i><br>Laiton bronze | Aluminio<br><i>Aluminium</i><br>Aluminium | Madera, Plásticos...<br><i>Wood, plastic...</i><br>Bois, plastique... |
|----------------------------------------------------|------------------------------------------|--------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------|
| Picado sencillo<br><i>Single cut</i><br>Une taille |                                          |                                      | ■                                                       | ■                                                                    |                                                      |                                           |                                                                       |
| Picado doble<br><i>Double cut</i><br>Doble coupe   | Basto<br><i>Bastard</i><br>Bâtard        | ■                                    | ■                                                       | ●                                                                    | ■                                                    | ■                                         | ●                                                                     |
|                                                    | Entrefino<br><i>Medium</i><br>Demi douce | ■                                    | ■                                                       | ■                                                                    | ■                                                    | ■                                         |                                                                       |
|                                                    | Fino<br><i>Smooth</i><br>Douce           | ●                                    | ■                                                       | ■                                                                    | ●                                                    |                                           |                                                                       |
| Escofina<br><i>Rasp</i><br>Râpe                    |                                          |                                      |                                                         |                                                                      |                                                      |                                           | ■                                                                     |

● Aceptable / *Acceptable* / Acceptable    ■ Adecuado / *Appropriate* / Idéal

■ **STANDARD**

■ **LIMAS PLANAS PARALELAS / HAND FILES / LIMES PLATES PARALLELES / FLACHSTUMPF / LIMA PIATTA PARALLELA / LIMAS PARALELAS / РУЧНЫЕ НАПИЛЬНИКИ**

| COD.  | L (inch) | M/cm |     | A (mm) | B (mm) | g   |   |
|-------|----------|------|-----|--------|--------|-----|---|
| 63491 | 4        | 1    | 85  | 12     | 2,5    | 45  |   |
| 63492 |          | 2    |     |        |        |     |   |
| 63493 |          | 3    |     |        |        |     |   |
| 63494 | 6        | 1    | 114 | 16     | 4,0    | 90  |   |
| 63495 |          | 2    |     |        |        |     |   |
| 63496 |          | 3    |     |        |        |     |   |
| 63497 | 8        | 1    | 135 | 20     | 5,0    | 200 | 5 |
| 63498 |          | 2    |     |        |        |     |   |
| 63499 |          | 3    |     |        |        |     |   |
| 63500 | 10       | 1    | 135 | 35     | 6,0    | 310 |   |
| 63501 |          | 2    |     |        |        |     |   |
| 63502 |          | 3    |     |        |        |     |   |
| 63503 | 12       | 1    | 135 | 30     | 6,5    | 410 |   |
| 63504 |          | 2    |     |        |        |     |   |
| 63505 |          | 3    |     |        |        |     |   |
| 63506 | 14       | 1    | 135 | 35     | 7,5    | 650 |   |
| 63507 |          | 2    |     |        |        |     |   |
| 63508 |          | 3    |     |        |        |     |   |

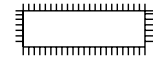
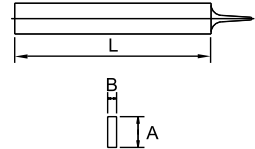
1: Basta / Bastard / Bâtarde  
 2: Entrefina / Medium / Demi-douce  
 3: Fina / Smooth / Douce

ISO 234/1 - ISO 234/2

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Tolerancia en corte según la norma / Cutting tolerance according to / Tolérance de coupe conforme à la norme ISO 234/2 (+/- 8%)

Ángulo de corte según la norma / Angle cut according to / Angle de coupe conforme à la norme ISO 234/2 (65° +/- 5%)



■ **LIMAS PLANAS DE PUNTA / FLAT FILES / LIMES PLATES DE BOUT / FLACHSPITZ / LIMA PIATTA A PUNTA / LIMAS CHATAS / ПЛОСКИЕ НАПИЛЬНИКИ**

| COD.  | L (inch) | M/cm |     | A (mm) | B (mm) | g   |   |
|-------|----------|------|-----|--------|--------|-----|---|
| 63527 | 4        | 1    | 85  | 12     | 2,5    | 40  |   |
| 63528 |          | 2    |     |        |        |     |   |
| 63529 |          | 3    |     |        |        |     |   |
| 63530 | 6        | 1    | 114 | 16     | 4,0    | 80  |   |
| 63531 |          | 2    |     |        |        |     |   |
| 63532 |          | 3    |     |        |        |     |   |
| 63533 | 8        | 1    | 135 | 20     | 5,0    | 180 | 5 |
| 63534 |          | 2    |     |        |        |     |   |
| 63535 |          | 3    |     |        |        |     |   |
| 63536 | 10       | 1    | 135 | 35     | 6,0    | 270 |   |
| 63537 |          | 2    |     |        |        |     |   |
| 63538 |          | 3    |     |        |        |     |   |
| 63539 | 12       | 1    | 135 | 30     | 6,5    | 370 |   |
| 63540 |          | 2    |     |        |        |     |   |
| 63541 |          | 3    |     |        |        |     |   |
| 63542 | 14       | 1    | 135 | 35     | 7,5    | 600 |   |
| 63543 |          | 2    |     |        |        |     |   |
| 63544 |          | 3    |     |        |        |     |   |

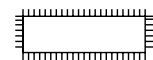
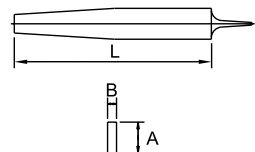
1: Basta / Bastard / Bâtarde  
 2: Entrefina / Medium / Demi-douce  
 3: Fina / Smooth / Douce

ISO 234/1 - ISO 234/2










**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Tolerancia en corte según la norma / Cutting tolerance according to / Tolérance de coupe conforme à la norme ISO 234/2 (+/- 8%)

Ángulo de corte según la norma / Angle cut according to / Angle de coupe conforme à la norme ISO 234/2 (65° +/- 5%)



■ **LIMAS MEDIA CAÑA / HALF ROUND FILES / LIMES DEMI-RONDES / HALBRUND-FEILEN, SPITZE FORM / LIMA MEZZATONDA / LIMAS MEIA CANA / ПОЛУКРУГЛЫЕ НАПИЛЬНИКИ**

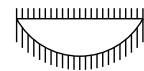
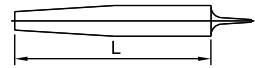
| COD.  | L (inch) | M/cm |     |  | A (mm) | B (mm) |  |  |
|-------|----------|------|-----|-----------------------------------------------------------------------------------|--------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 63563 | 4        | 1    | 14  | 85                                                                                | 10,5   | 3,0    | 24                                                                                |  |
| 63564 |          | 2    | 22  |                                                                                   |        |        |                                                                                   |                                                                                     |
| 63565 |          | 3    | 28  |                                                                                   |        |        |                                                                                   |                                                                                     |
| 63566 | 6        | 1    | 11  | 114                                                                               | 16     | 4,5    | 70                                                                                |  |
| 63567 |          | 2    | 18  |                                                                                   |        |        |                                                                                   |                                                                                     |
| 63568 |          | 3    | 22  |                                                                                   |        |        |                                                                                   |                                                                                     |
| 63569 | 8        | 1    | 10  | 135                                                                               | 20     | 6,0    | 150                                                                               |  |
| 63570 |          | 2    | 16  |                                                                                   |        |        |                                                                                   |                                                                                     |
| 63571 |          | 3    | 20  |                                                                                   |        |        |                                                                                   |                                                                                     |
| 63572 | 10       | 1    | 9   | 135                                                                               | 25     | 7,0    | 260                                                                               |  |
| 63573 |          | 2    | 12  |                                                                                   |        |        |                                                                                   |                                                                                     |
| 63574 |          | 3    | 18  |                                                                                   |        |        |                                                                                   |                                                                                     |
| 63575 | 12       | 1    | 8   | 135                                                                               | 30     | 8,5    | 370                                                                               |  |
| 63576 |          | 2    | 11  |                                                                                   |        |        |                                                                                   |                                                                                     |
| 63577 |          | 3    | 16  |                                                                                   |        |        |                                                                                   |                                                                                     |
| 63578 | 14       | 1    | 7,0 | 135                                                                               | 35     | 10     | 650                                                                               |  |
| 63579 |          | 2    | 10  |                                                                                   |        |        |                                                                                   |                                                                                     |
| 63580 |          | 3    | 14  |                                                                                   |        |        |                                                                                   |                                                                                     |

1: Basta /Bastard / Batarde  
 2: Entrefina /Medium / Demi-douce  
 3: Fina /Smooth / Douce










ISO 234/1 - ISO 234/2

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                              |                        |
|--------------------------------------------------------------------------------------------------------------|------------------------|
| Tolerancia en corte según la norma / Cutting tolerance according to / Tolérance de coupe conforme à la norme | ISO 234/2 (+/- 8%)     |
| Ángulo de corte según la norma / Angle cut according to / Angle de coupe conforme à la norme                 | ISO 234/2 (65° +/- 5%) |



■ **LIMAS TRIANGULARES / TRIANGULAR FILES / LIMES TRIANGULAIRES / DREIKANTFEILEN / LIMA TRIANGOLARE / LIMATÕES TRIANGULARES / ТРЕУГОЛЬНЫЕ НАПИЛЬНИКИ**

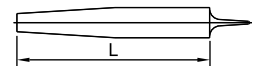
| COD.  | L (inch) | M/cm |     |  | A (mm) |  |  |
|-------|----------|------|-----|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 63599 | 4        | 1    | 14  | 85                                                                                  | 8,0    | 27                                                                                  |  |
| 63600 |          | 2    | 22  |                                                                                     |        |                                                                                     |                                                                                       |
| 63601 |          | 3    | 28  |                                                                                     |        |                                                                                     |                                                                                       |
| 63602 | 6        | 1    | 11  | 114                                                                                 | 11     | 70                                                                                  |  |
| 63603 |          | 2    | 18  |                                                                                     |        |                                                                                     |                                                                                       |
| 63604 |          | 3    | 22  |                                                                                     |        |                                                                                     |                                                                                       |
| 63605 | 8        | 1    | 10  | 135                                                                                 | 15     | 150                                                                                 |  |
| 63606 |          | 2    | 16  |                                                                                     |        |                                                                                     |                                                                                       |
| 63607 |          | 3    | 20  |                                                                                     |        |                                                                                     |                                                                                       |
| 63608 | 10       | 1    | 9   | 135                                                                                 | 17     | 205                                                                                 |  |
| 63609 |          | 2    | 12  |                                                                                     |        |                                                                                     |                                                                                       |
| 63610 |          | 3    | 18  |                                                                                     |        |                                                                                     |                                                                                       |
| 63611 | 12       | 1    | 8,0 | 135                                                                                 | 20     | 340                                                                                 |  |
| 63612 |          | 2    | 11  |                                                                                     |        |                                                                                     |                                                                                       |
| 63613 |          | 3    | 16  |                                                                                     |        |                                                                                     |                                                                                       |
| 63614 | 14       | 1    | 7   | 135                                                                                 | 24     | 600                                                                                 |  |
| 63615 |          | 2    | 10  |                                                                                     |        |                                                                                     |                                                                                       |
| 63616 |          | 3    | 14  |                                                                                     |        |                                                                                     |                                                                                       |

1: Basta /Bastard / Batarde  
 2: Entrefina /Medium / Demi-douce  
 3: Fina /Smooth / Douce

ISO 234/1 - ISO 234/2

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                              |                        |
|--------------------------------------------------------------------------------------------------------------|------------------------|
| Tolerancia en corte según la norma / Cutting tolerance according to / Tolérance de coupe conforme à la norme | ISO 234/2 (+/- 8%)     |
| Ángulo de corte según la norma / Angle cut according to / Angle de coupe conforme à la norme                 | ISO 234/2 (65° +/- 5%) |



**LIMAS CUADRADAS / SQUARE FILES / LIMES CARREES / VIERKANTFEILEN / LIMA QUADRA / LIMATÕES QUADRADOS / КВАДРАТНЫЕ НАПИЛЬНИКИ**

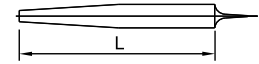
| COD.  | L (inch) | Μ/cm |     | A (mm) |     |    |     |     |     |   |     |   |
|-------|----------|------|-----|--------|-----|----|-----|-----|-----|---|-----|---|
| 63635 | 4        | 1    | 85  | 4,0    | 18  | 5  |     |     |     |   |     |   |
| 63636 |          | 2    |     |        |     |    |     |     |     |   |     |   |
| 63637 |          | 3    |     |        |     |    |     |     |     |   |     |   |
| 63638 | 6        | 1    |     | 114    | 6,0 |    | 36  | 5   |     |   |     |   |
| 63639 |          | 2    |     |        |     |    |     |     |     |   |     |   |
| 63640 |          | 3    |     |        |     |    |     |     |     |   |     |   |
| 63641 | 8        | 1    |     |        | 135 |    | 8,0 |     | 95  | 5 |     |   |
| 63642 |          | 2    |     |        |     |    |     |     |     |   |     |   |
| 63643 |          | 3    |     |        |     |    |     |     |     |   |     |   |
| 63644 | 10       | 1    |     |        |     |    | 135 |     | 10  |   | 130 | 5 |
| 63645 |          | 2    |     |        |     |    |     |     |     |   |     |   |
| 63646 |          | 3    |     |        |     |    |     |     |     |   |     |   |
| 63647 | 12       | 1    | 135 |        |     | 12 |     |     | 390 |   | 5   |   |
| 63648 |          | 2    |     |        |     |    |     |     |     |   |     |   |
| 63649 |          | 3    |     |        |     |    |     |     |     |   |     |   |
| 63650 | 14       | 1    |     | 135    |     | 15 |     | 550 | 5   |   |     |   |
| 63651 |          | 2    |     |        |     |    |     |     |     |   |     |   |
| 63652 |          | 3    |     |        |     |    |     |     |     |   |     |   |

1: Basta /Bastard / Bâtarde  
 2: Entrefina /Medium / Demi-douce  
 3: Fina /Smooth / Douce

ISO 234/1 - ISO 234/2

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                              |                        |
|--------------------------------------------------------------------------------------------------------------|------------------------|
| Tolerancia en corte según la norma / Cutting tolerance according to / Tolérance de coupe conforme à la norme | ISO 234/2 (+/- 8%)     |
| Ángulo de corte según la norma / Angle cut according to / Angle de coupe conforme à la norme                 | ISO 234/2 (65° +/- 5%) |



**LIMAS REDONDAS / ROUND FILES / LIMES RONDES / RUNDFEILEN / LIMA TONDA / LIMATÕES REDONDOS / КРУГЛЫЕ НАПИЛЬНИКИ**

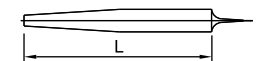
| COD.  | L (inch) | Μ/cm |     | A (mm) |     |    |     |     |     |   |     |   |
|-------|----------|------|-----|--------|-----|----|-----|-----|-----|---|-----|---|
| 63671 | 4        | 1    | 85  | 4,0    | 13  | 5  |     |     |     |   |     |   |
| 63672 |          | 2    |     |        |     |    |     |     |     |   |     |   |
| 63673 |          | 3    |     |        |     |    |     |     |     |   |     |   |
| 63674 | 6        | 1    |     | 114    | 6,0 |    | 34  | 5   |     |   |     |   |
| 63675 |          | 2    |     |        |     |    |     |     |     |   |     |   |
| 63676 |          | 3    |     |        |     |    |     |     |     |   |     |   |
| 63677 | 8        | 1    |     |        | 135 |    | 7,5 |     | 75  | 5 |     |   |
| 63678 |          | 2    |     |        |     |    |     |     |     |   |     |   |
| 63679 |          | 3    |     |        |     |    |     |     |     |   |     |   |
| 63680 | 10       | 1    |     |        |     |    | 135 |     | 9,5 |   | 150 | 5 |
| 63681 |          | 2    |     |        |     |    |     |     |     |   |     |   |
| 63682 |          | 3    |     |        |     |    |     |     |     |   |     |   |
| 63683 | 12       | 1    | 135 |        |     | 12 |     |     | 270 |   | 5   |   |
| 63684 |          | 2    |     |        |     |    |     |     |     |   |     |   |
| 63685 |          | 3    |     |        |     |    |     |     |     |   |     |   |
| 63686 | 14       | 1    |     | 135    |     | 15 |     | 550 | 5   |   |     |   |
| 63687 |          | 2    |     |        |     |    |     |     |     |   |     |   |
| 63688 |          | 3    |     |        |     |    |     |     |     |   |     |   |

1: Basta /Bastard / Bâtarde  
 2: Entrefina /Medium / Demi-douce  
 3: Fina /Smooth / Douce

ISO 234/1 - ISO 234/2

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                              |                        |
|--------------------------------------------------------------------------------------------------------------|------------------------|
| Tolerancia en corte según la norma / Cutting tolerance according to / Tolérance de coupe conforme à la norme | ISO 234/2 (+/- 8%)     |
| Ángulo de corte según la norma / Angle cut according to / Angle de coupe conforme à la norme                 | ISO 234/2 (65° +/- 5%) |



JUEGOS / SETS / JEUX / SÄTZE / ASSORTIMENTI / JOGOS / НАБОРЫ

JUEGO DE 5 LIMAS DE 10" BASTA / 10" BASTARD FILE SET 5 PCS / JEU DE 5 LIMES BATARDES 10" / SET BASTARD FEILEN 5 STÜCK / KIT 5 LIME BASTARDE 10" / JOGO DE 5 LIMAS DE 10" BASTARDAS / 10" ГРУБЫЕ НАПИЛЬНИКИ НАБОР ИЗ 5 ШТ

| COD.  |       | PCS. |                                                 |          |
|-------|-------|------|-------------------------------------------------|----------|
| 63760 |       | 5    |                                                 |          |
| PCS.  | COD.  | PCS. | Descripción / Description / Description         | L (inch) |
|       | 63536 |      | Lima plana punta basta / Bastard flat file      |          |
|       | 63572 |      | Lima media caña basta / Bastard half round file |          |
| 1     | 63608 |      | Lima triangular basta / Bastard triangular file | 10       |
|       | 63644 |      | Lima cuadrada basta / Bastard square file       |          |
|       | 63680 |      | Lima redonda basta / Bastard round file         |          |



JUEGO DE 5 LIMAS DE 10" ENTREFINA / 10" MEDIUM FILE SET 5 PCS / JEU DE 5 LIMES DEMI-DOUCES 10" / SET MEDIUM FEILEN 5 STÜCK / KIT 5 LIME EXTRA FINE 10" / JOGO DE 5 LIMAS 10" MEIO MURÇO / 10" СРЕДНИЕ НАПИЛЬНИКИ НАБОР ИЗ 5 ШТ

| COD.  |       | PCS. |                                                    |          |
|-------|-------|------|----------------------------------------------------|----------|
| 63762 |       | 5    |                                                    |          |
| PCS.  | COD.  | PCS. | Descripción / Description / Description            | L (inch) |
|       | 63537 |      | Lima plana punta entrefina / Medium flat file      |          |
|       | 63573 |      | Lima media caña entrefina / Medium half round file |          |
| 1     | 63609 |      | Lima triangular entrefina / Medium triangular file | 10       |
|       | 63645 |      | Lima cuadrada entrefina / Medium square file       |          |
|       | 63681 |      | Lima redonda entrefina / Medium round file         |          |



JUEGO DE 5 LIMAS DE 10" FINA / 10" SMOOTH FILE SET 5 PCS / JEU DE 5 LIMES DOUCES 10" / SET SCHLICHT FEILEN 5 STÜCK / KIT 5 LIME FINE 10" / JOGO DE 5 LIMAS 10" MURÇO / 10" МЕЛКИЕ НАПИЛЬНИКИ НАБОР ИЗ 5 ШТ

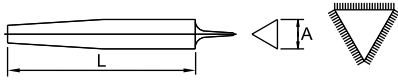
| COD.  |       | PCS. |                                               |          |
|-------|-------|------|-----------------------------------------------|----------|
| 63767 |       | 5    |                                               |          |
| PCS.  | COD.  | PCS. | Descripción / Description / Description       | L (inch) |
|       | 63538 |      | Lima plana punta fina / Smooth flat file      |          |
|       | 63574 |      | Lima media caña fina / Smooth half round file |          |
| 1     | 63610 |      | Lima triangular fina / Smooth triangular file | 10       |
|       | 63646 |      | Lima cuadrada fina / Smooth square file       |          |
|       | 63682 |      | Lima redonda fina / Smooth round file         |          |





**LIMAS AFILADO / SHARPENING FILES / LIMES D'AFFÛTAGE / PRÄZISIONSNADELFEILEN DÜNN / LIMA AFFILATA / LIMAS DE AFIAR, DE AGRICULTOR / ЗАТАЧИВАЮЩИЕ НАПИЛЬНИКИ**

**LIMA TRIANGULAR DELGADA / SLIM TAPER SAW / LIME TRIANGULAIRE ETROITE / PRÄZISIONSNADELFEILEN DÜNN / LIMA TRIANGOLARE / LIMAS TRIANGULARES FINAS / ТРЕУГОЛЬНЫЙ НАПИЛЬНИК**



| COD.  | L (inch) |   |    | A (mm) | g  |   |
|-------|----------|---|----|--------|----|---|
| 63692 | 4        |   |    | 4,5    | 10 | 5 |
| 63693 | 5        | 4 | 85 | 6,0    | 25 |   |

4: Extrafina / Very smooth / Extrafine

ISO 234/1 - ISO 234/2

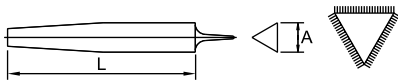
**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Tolerancia en corte según la norma / Cutting tolerance according to / Tolérance de coupe conforme à la norme ISO 234/2 (+/- 5%)

Ángulo de corte según la norma / Angle cut according to / Angle de coupe conforme à la norme ISO 234/2 (60° +/- 5%)



**LIMA TRIANGULAR EXTRA-DELGADA / EXTRA REGULAR TAPER SAW / LIME EXTRA FINE / DREIKANTFEILEN / LIMA TRIANGOLARE EXTRA-SOTTILE / LIMAS TRIANGULARES EXTRA-FINAS / МЕЛКИЙ ТРЕУГОЛЬНЫЙ НАПИЛЬНИК**



| COD.  | L (inch) |   |    | A (mm) | g  |   |
|-------|----------|---|----|--------|----|---|
| 63696 | 4        |   |    | 4,0    | 10 | 5 |
| 63697 | 5        | 4 | 85 | 5,0    | 20 |   |

4: Extrafina / Very smooth / Extrafine

ISO 234/1 - ISO 234/2

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

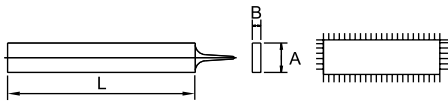
Tolerancia en corte según la norma / Cutting tolerance according to / Tolérance de coupe conforme à la norme ISO 234/2 (+/- 5%)

Ángulo de corte según la norma / Angle cut according to / Angle de coupe conforme à la norme ISO 234/2 (60° +/- 5%)



**ESCOFINAS / RASPS / RAPES / SCHABER / RASPA / GROSAS / РАШПИЛИ**

**ESCOFINAS PLANAS PARALELAS / HAND WOOD RASPS / RÂPES PLATES PARALLÈLES / FLACH RAPES / RASPA PIATTA PARALLELA / GROSAS PARALELAS / РУЧНЫЕ РАШПИЛИ ПО ДЕРЕВУ**



| COD.  | L (inch) | W/cm |  | A (mm) | B (mm) | g   |   |   |
|-------|----------|------|--|--------|--------|-----|---|---|
| 63700 | 10       |      |  | 115    | 7,0    | 125 | 5 |   |
| 63701 | 12       | 3    |  | 135    | 8,0    | 220 |   | • |

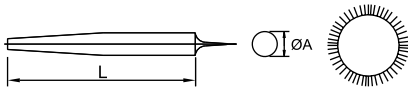
ISO 234/1 - ISO 234/2

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Tolerancia en corte según la norma / Cutting tolerance according to / Tolérance de coupe conforme à la norme ISO 234/2 (+/- 12%)



■ **ESCOFINAS REDONDAS / ROUND RASPS / RAPES RONDES / RUNDE RAPAS / RASPA TONDA / GROSAS REDONDAS / КРУГЛЫЕ РАШПИЛИ**



| COD.  | L (inch) | W/cm | Icon | A (mm) | g   | Icon |
|-------|----------|------|------|--------|-----|------|
| 63712 | 8        | 3    | 114  | 9,5    | 60  | 5    |
| 63713 | 10       | 3    | 114  | 11     | 125 | 5    |

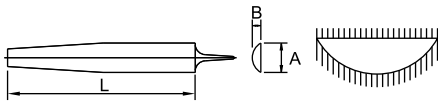
ISO 234/1 - ISO 234/2

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Tolerancia en corte según la norma / Cutting tolerance according to / Tolérance de coupe conforme à la norme ISO 234/2 (+/- 12%)



■ **ESCOFINAS MEDIA CAÑA / HALF ROUND RASPS / RÂPES DEMI-RONDES / HALBRUND RAPAS / RASPA MEZZOTONDA / GROSAS MEIA CANA / ПОЛУКРУГЛЫЙ РАШПИЛЬ**



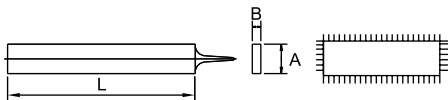
| COD.  | L (inch) | W/cm | Icon | A (mm) | B (mm) | g   | Icon |
|-------|----------|------|------|--------|--------|-----|------|
| 63706 | 6        | 3    | 85   | 16     | 4,0    | 80  | 5    |
| 63707 | 8        | 3    | 114  | 20     | 5,5    | 140 | 5    |
| 63708 | 10       | 3    | 114  | 24     | 7,0    | 240 | 5    |
| 63709 | 12       | 3    | 135  | 28     | 8,0    | 370 | 5    |

ISO 234/1 - ISO 234/2



■ **LIMAS DE AGUJA / NEEDLE FILES / LIMES AIGUILLES / NADELFEILEN / LIMA A PUNTA / LIMAS DE CALADO / НАДФИЛИ**

■ **LIMAS PLANAS PARALELAS / HAND FILES / LIMES PLATES PARALLELES / FLACHSTUMPF / LIMA PIATTA PARALLELA / LIMAS PARALELAS / РУЧНОЙ НАДФИЛЬ**



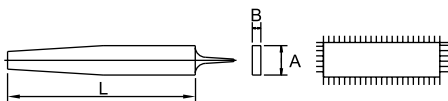
| COD.  | L (inch) | W/cm | A (mm) | B (mm) | g   | Icon | Icon |
|-------|----------|------|--------|--------|-----|------|------|
| 63714 | 6        | 2    | 25     | 16     | 3,3 | 70   | 24   |

2 : Entrefina / Medium / Demi-douce

ISO 234/1 - ISO 234/2



■ **LIMAS PLANAS DE PUNTA / FLAT FILES / LIMES PLATES DE BOUT / NADELFLACHSTUMPF / LIMA PIATTA A PUNTA / LIMAS CHATAS / ПЛОСКИЙ НАДФИЛЬ**



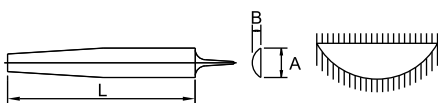
| COD.  | L (inch) | W/cm | A (mm) | B (mm) | g   | Icon | Icon |
|-------|----------|------|--------|--------|-----|------|------|
| 63715 | 6        | 2    | 25     | 16     | 3,3 | 65   | 24   |

2 : Entrefina / Medium / Demi-douce

ISO 234/1 - ISO 234/2



■ **LIMAS MEDIA CAÑA / HALF ROUND FILES / LIMES DEMI-RONDES / HALBRUND-FEILEN / LIMA MEZZATONDA / LIMAS MEIA CANA / ПОЛУКРУГЛЫЙ НАДФИЛЬ**



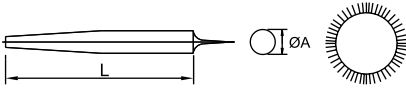
| COD.  | L (inch) | W/cm | A (mm) | B (mm) | g   | Icon | Icon |
|-------|----------|------|--------|--------|-----|------|------|
| 63716 | 6        | 2    | 25     | 16     | 4,2 | 65   | 24   |

2 : Entrefina / Medium / Demi-douce

ISO 234/1 - ISO 234/2



**LIMAS REDONDAS / ROUND FILES / LIMES RONDES / RUNDFEILEN / LIMA TONDA / LIMATÕES REDONDOS / КРУГЛЫЙ НАДФИЛЬ**

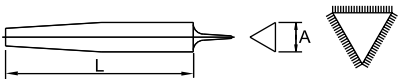


| COD.         | L (inch) |   | A (mm) |     |    |    |
|--------------|----------|---|--------|-----|----|----|
| <b>63717</b> | 6        | 2 | 25     | 5,5 | 30 | 24 |

2 : Entrefina / Medium / Demi-douce  
 ISO 234/1 - ISO 234/2



**LIMAS TRIANGULARES / TRIANGULAR FILES / LIMES TRIANGULAIRES / DREIKANTFEILEN / LIMA TRIANGOLARE / LIMAS TRIANGULARES / ТРЕУГОЛЬНЫЙ НАДФИЛЬ**

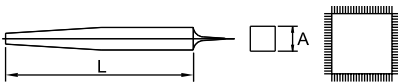


| COD.         | L (inch) |   | A (mm) |    |    |    |
|--------------|----------|---|--------|----|----|----|
| <b>63718</b> | 6        | 2 | 25     | 11 | 60 | 24 |

2 : Entrefina / Medium / Demi-douce  
 ISO 234/1 - ISO 234/2



**LIMAS CUADRADAS / SQUARE FILES / LIMES CARRÉES / VIERKANTFEILEN / LIMA QUADRA / LIMATÕES QUADRADOS / КВАДРАТНЫЙ НАДФИЛЬ**



| COD.         | L (inch) |   | A (mm) |     |    |    |
|--------------|----------|---|--------|-----|----|----|
| <b>63719</b> | 6        | 2 | 25     | 5,0 | 35 | 24 |

2 : Entrefina / Medium / Demi-douce  
 ISO 234/1 - ISO 234/2



**SET**

| COD.         | PCS. |
|--------------|------|
| <b>63768</b> | 6    |

| PCS. | COD. PCS. | L (inch) |
|------|-----------|----------|
| 1    | 63714     | 6        |
|      | 63715     |          |
|      | 63716     |          |
|      | 63717     |          |
|      | 63718     |          |
|      | 63719     |          |

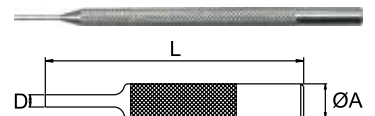


**BOTADORES CILÍNDRICOS / PIN PUNCHES / CHASSES GOUPILLES / DURCHSCHLÄGER / PUNZONE CILINDRICO / PUNÇÕES CILÍNDRICOS / ПРОБОЙНИКИ**

**MOLETEADOS / KNURLED / MOLETAGE / GERÄNDELT / ZIGRINATO / RECARILHADOS / С НАСЕЧКОЙ**

| COD.         | D (mm) | L (mm) | A (mm) |    |    |
|--------------|--------|--------|--------|----|----|
| <b>63380</b> | 2      | 125    | 10     | 40 | 25 |
| <b>63381</b> | 3      |        |        | 41 |    |
| <b>63382</b> | 4      |        |        | 43 |    |
| <b>63383</b> | 5      |        |        | 65 |    |
| <b>63384</b> | 6      |        |        | 90 |    |
| <b>63385</b> | 8      |        |        | 12 |    |
| <b>63386</b> | 10     | 14     | 125    |    |    |

DIN 6450



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

## SET

| COD.         | PCS. |
|--------------|------|
| <b>68590</b> | 7    |

| PCS. | COD. PCS. | D (mm) |
|------|-----------|--------|
| 1    | 63380     | 2      |
|      | 63381     | 3      |
|      | 63382     | 4      |
|      | 63383     | 5      |
|      | 63384     | 6      |
|      | 63385     | 8      |
|      | 63386     | 10     |



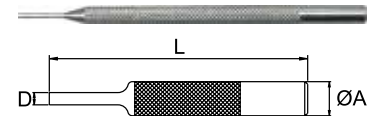
## MOLETEADOS LARGOS / LONG KNURLED / LONG MOLETAGE / LANG GERÄNDELT / ZIGRINATO LARGO / RECARTILHADOS LONGOS / ДЛИННЫЕ С НАСЕЧКОЙ

| COD.         | D (mm) | L (mm) | A (mm) | g   | Icon |
|--------------|--------|--------|--------|-----|------|
| <b>63387</b> | 2      | 150    | 10     | 49  | 25   |
| <b>63388</b> | 3      |        |        | 50  |      |
| <b>63389</b> | 4      |        |        | 55  |      |
| <b>63390</b> | 5      |        |        | 75  |      |
| <b>63391</b> | 6      |        |        | 80  |      |
| <b>63392</b> | 8      |        |        | 115 |      |
| <b>63393</b> | 10     |        |        | 160 |      |

DIN 6450

## CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V



## SET

| COD.         | PCS. |
|--------------|------|
| <b>68591</b> | 7    |

| PCS. | COD. PCS. | D (mm) |
|------|-----------|--------|
| 1    | 63387     | 2      |
|      | 63388     | 3      |
|      | 63389     | 4      |
|      | 63390     | 5      |
|      | 63391     | 6      |
|      | 63392     | 8      |
|      | 63393     | 10     |



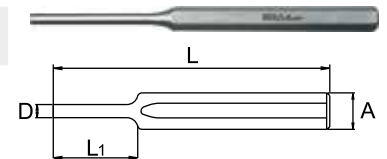
## HEXAGONALES / HEXAGONAL / A SIX PANS / HEXAGONAL / ESAGONALI / HEXAGONAIS / ШЕСТИГРАННАЯ

| COD.         | D (mm) | L (mm) | A (mm) | g  | Icon |
|--------------|--------|--------|--------|----|------|
| <b>63394</b> | 2      | 150    | 10     | 28 | 25   |
| <b>63395</b> | 3      |        |        | 40 |      |
| <b>63396</b> | 4      |        |        | 42 |      |
| <b>63397</b> | 5      |        |        | 65 |      |
| <b>63398</b> | 6      |        |        | 70 |      |
| <b>63399</b> | 8      |        |        | 90 |      |
| <b>63400</b> | 10     |        |        | 95 |      |

DIN 6450

## CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V



## SET

| COD.         | PCS. |
|--------------|------|
| <b>63763</b> | 7    |

| PCS. | COD. PCS. | D (mm) |
|------|-----------|--------|
| 1    | 63394     | 2      |
|      | 63395     | 3      |
|      | 63396     | 4      |
|      | 63397     | 5      |
|      | 63398     | 6      |
|      | 63399     | 8      |
|      | 63400     | 10     |



## OCTOGONAL / OCTOGONAL / ОКТОГОНАЛ / OCTOGONAL / OTTAGONALE / OCTOGONALS / ВОСЬМИГРАННЫЕ

| COD.         | D (mm) | L (mm) | A (mm) | g  | Icon |
|--------------|--------|--------|--------|----|------|
| <b>63401</b> | 2      | 150    | 10     | 65 | Icon |
| <b>63402</b> | 3      |        |        |    |      |
| <b>63403</b> | 4      |        |        |    |      |
| <b>63404</b> | 5      |        |        |    |      |
| <b>63405</b> | 6      |        |        |    |      |
| <b>63406</b> | 8      |        |        |    |      |
| <b>63407</b> | 10     |        |        |    |      |

DIN 6450

## CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V



## SET

| COD.         | PCS. |
|--------------|------|
| <b>68592</b> | 7    |

| PCS. | COD. PCS. | D (mm) |
|------|-----------|--------|
| 1    | 63401     | 2      |
|      | 63402     | 3      |
|      | 63403     | 4      |
|      | 63404     | 5      |
|      | 63405     | 6      |
|      | 63406     | 8      |
|      | 63407     | 10     |



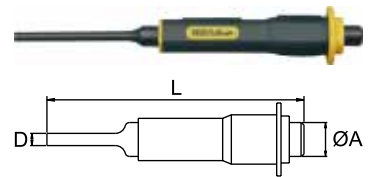
## CON MANGO / WITH HANDLE / AVEC MANCHE / MIT GRIFF / CON MANICO / COM CABO / С РУКОЯТКОЙ

| COD.         | D (mm) | L (mm) | A (mm) | g   | Icon |
|--------------|--------|--------|--------|-----|------|
| <b>63447</b> | 2      | 165    | 8      | 65  | Icon |
| <b>63448</b> | 3      | 175    |        |     |      |
| <b>63449</b> | 4      | 185    | 10     | 100 |      |
| <b>63450</b> | 5      | 200    |        | 110 |      |
| <b>63451</b> | 6      |        |        | 150 |      |
| <b>63452</b> | 7      | 210    | 12     | 160 |      |
| <b>63453</b> | 8      |        |        | 170 |      |
| <b>63454</b> | 9      | 220    | 14     | 230 |      |
| <b>63455</b> | 10     |        |        | 240 |      |
| <b>63456</b> | 12     | 230    | 16     | 330 |      |
| <b>63457</b> | 14     | 240    |        |     |      |
| <b>63458</b> | 16     | 250    | 18     | 500 |      |

DIN 6450



## CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V



■ **BOTADORES CÓNICOS / TAPER PUNCHES / CHASSE CLOU / KÖRNER / PUNZONE CONICO / PUNÇÕES CÓNICOS / КОНИЧЕСКИЕ ПРОБОЙНИКИ**

■ **MOLETEADOS / KNURLED / MOLETAGE / GERÄNDELT / ZIGRINATO / RECARTILHADOS / С НАСЕЧКОЙ**

| COD.  | D (mm) | L (mm) | A (mm) |  |  |
|-------|--------|--------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 63408 | 2      | 125    | 8      | 44                                                                                | 25                                                                                  |
| 63409 | 3      |        |        | 45                                                                                |                                                                                     |
| 63410 | 4      |        |        | 47                                                                                |                                                                                     |
| 63411 | 5      |        | 10     | 70                                                                                |                                                                                     |
| 63412 | 6      |        | 12     | 100                                                                               |                                                                                     |
| 63413 | 8      |        | 14     | 130                                                                               |                                                                                     |
| 63414 | 10     |        |        |                                                                                   |                                                                                     |

DIN 6458

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

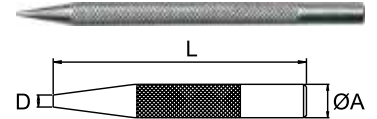
Cr-V

■ **SET**



| COD.  | PCS. |
|-------|------|
| 68593 | 7    |

| PCS. | COD. PCS. | D (mm) |
|------|-----------|--------|
| 1    | 63408     | 2      |
|      | 63409     | 3      |
|      | 63410     | 4      |
|      | 63411     | 5      |
|      | 63412     | 6      |
|      | 63413     | 8      |
|      | 63414     | 10     |



■ **HEXAGONALES / HEXAGONAL / A SIX PANS / HEXAGONAL / ESAGONALI / HEXAGONAIS / ШЕСТИГРАННАЯ**

| COD.  | D (mm) | L (mm) | A (mm) |  |  |
|-------|--------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 63415 | 2      | 125    | 10     | 60                                                                                  | 25                                                                                    |
| 63416 | 3      |        |        | 65                                                                                  |                                                                                       |
| 63417 | 4      |        |        | 70                                                                                  |                                                                                       |
| 63418 | 5      |        | 110    |                                                                                     |                                                                                       |
| 63419 | 6      |        | 120    |                                                                                     |                                                                                       |
| 63420 | 8      | 150    | 12     |                                                                                     |                                                                                       |
| 63421 | 10     |        |        |                                                                                     |                                                                                       |

DIN 6458

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

■ **SET**



| COD.  | PCS. |
|-------|------|
| 63764 | 7    |

| PCS. | COD. PCS. | D (mm) |
|------|-----------|--------|
| 1    | 63415     | 2      |
|      | 63416     | 3      |
|      | 63417     | 4      |
|      | 63418     | 5      |
|      | 63419     | 6      |
|      | 63420     | 8      |
|      | 63421     | 10     |



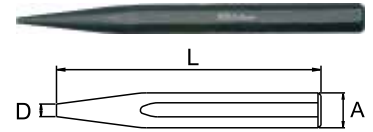
■ **OCTOGONAL / OCTOGONAL / OKTOGONAL / OCTOGONAL / OTTAGONALE / OCTOGONALS / ВОСЬМИГРАННЫЕ**

| COD.  | D (mm) | L (mm) | A (mm) |  |  |
|-------|--------|--------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 63422 | 2      | 120    | 10     | 60                                                                                | 25                                                                                  |
| 63423 | 3      |        |        | 65                                                                                |                                                                                     |
| 63424 | 4      |        |        | 75                                                                                |                                                                                     |
| 63425 | 5      | 150    | 12     | 80                                                                                |                                                                                     |
| 63426 | 6      |        |        | 120                                                                               |                                                                                     |
| 63427 | 8      |        |        | 135                                                                               |                                                                                     |
| 63428 | 10     |        |        |                                                                                   |                                                                                     |

DIN 6458

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



■ **SET**



| COD.  | PCS. |
|-------|------|
| 68594 | 7    |

| PCS. | COD. PCS. | D (mm) |
|------|-----------|--------|
| 1    | 63422     | 2      |
|      | 63423     | 3      |
|      | 63424     | 4      |
|      | 63425     | 5      |
|      | 63426     | 6      |
|      | 63427     | 8      |
|      | 63428     | 10     |



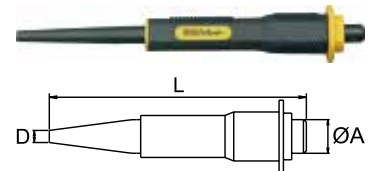
■ **CON MANGO / WITH HANDLE / CHASSE CLOU EMMENCHÉ / MIT GRIFF / CON MANICO / COM CABO / С РУКОЯТКОЙ**

| COD.  | D (mm) | L (mm) | A (mm) |  |  |
|-------|--------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 63459 | 2      | 165    | 8      | 75                                                                                  | 10                                                                                    |
| 63460 | 3      |        |        | 80                                                                                  |                                                                                       |
| 63461 | 4      |        |        | 110                                                                                 |                                                                                       |
| 63462 | 5      | 185    | 10     | 115                                                                                 |                                                                                       |
| 63463 | 6      |        |        | 120                                                                                 |                                                                                       |
| 63464 | 8      |        |        | 170                                                                                 |                                                                                       |
| 63465 | 10     |        |        | 200                                                                                 |                                                                                       |

DIN 6458



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



■ **GRANETES / CENTER PUNCHES / POINTEAUX / KÖRNER / PUNZONI / PUNÇÕES / МЕТЧИКИ**

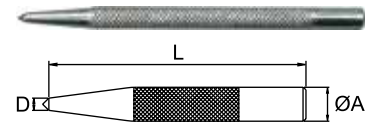
■ **MOLETEADOS / KNURLED / MOLETAGE / GERÄNDELT / ZIGRINATO / RECARILHADOS / С НАСЕЧКОЙ**

| COD.  | D (mm) | L (mm) | A (mm) |  |  |
|-------|--------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 63429 | 2,5    | 125    | 10     | 42                                                                                  | 25                                                                                    |
| 63430 | 3      |        |        | 43                                                                                  |                                                                                       |
| 63431 | 4      |        |        | 45                                                                                  |                                                                                       |
| 63432 | 6      |        |        | 70                                                                                  |                                                                                       |
| 63433 | 8      |        |        | 100                                                                                 |                                                                                       |
| 63434 | 10     |        |        | 130                                                                                 |                                                                                       |

DIN 7250

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



## SET

| COD.         | PCS. |
|--------------|------|
| <b>68595</b> | 6    |

| PCS. | COD. PCS. | D (mm) |
|------|-----------|--------|
| 1    | 63429     | 2,5    |
|      | 63430     | 3      |
|      | 63431     | 4      |
|      | 63432     | 6      |
|      | 63433     | 8      |
|      | 63434     | 10     |



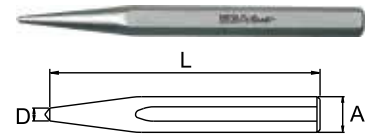
## HEXAGONALES / HEXAGONAL / A SIX PANS / HEXAGONAL / ESAGONALI / HEXAGONAIS / ШЕСТИГРАННАЯ

| COD.         | D (mm) | L (mm) | A (mm) |     |    |
|--------------|--------|--------|--------|-----|----|
| <b>63435</b> | 2,5    | 100    | 8      | 35  | 25 |
| <b>63436</b> | 3      |        |        | 40  |    |
| <b>63437</b> | 4      |        |        | 70  |    |
| <b>63438</b> | 6      |        |        | 120 |    |
| <b>63439</b> | 8      |        |        | 130 |    |
| <b>63440</b> | 10     |        |        |     |    |

DIN 7250

## CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V



## SET

| COD.         | PCS. |
|--------------|------|
| <b>63765</b> | 6    |

| PCS. | COD. PCS. | D (mm) |
|------|-----------|--------|
| 1    | 63435     | 2,5    |
|      | 63436     | 3      |
|      | 63437     | 4      |
|      | 63438     | 6      |
|      | 63439     | 8      |
|      | 63440     | 10     |



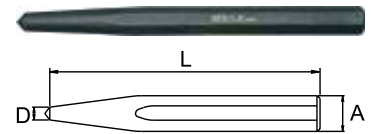
## OCTOGONAL / OCTOGONAL / ОКТОГОНАЛ / OCTOGONAL / OTTAGONALE / OCTOGONAIS / ВОСЬМИГРАННЫЕ

| COD.         | D (mm) | L (mm) | A (mm) |     |    |
|--------------|--------|--------|--------|-----|----|
| <b>63441</b> | 2,5    | 120    | 10     | 60  | 25 |
| <b>63442</b> | 3      |        |        | 65  |    |
| <b>63443</b> | 4      |        |        | 95  |    |
| <b>63444</b> | 6      |        |        | 105 |    |
| <b>63445</b> | 8      |        |        |     |    |
| <b>63446</b> | 10     |        |        |     |    |

DIN 7250

## CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V



## SET

| COD.         | PCS. |
|--------------|------|
| <b>68596</b> | 6    |



  

| PCS. | COD. PCS. | D (mm) |
|------|-----------|--------|
| 1    | 63441     | 2,5    |
|      | 63442     | 3      |
|      | 63443     | 4      |
|      | 63444     | 6      |
|      | 63445     | 8      |
|      | 63446     | 10     |





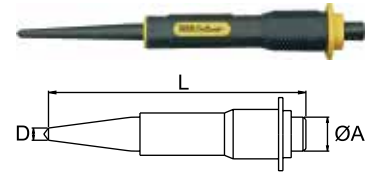
■ **CON MANGO / WITH HANDLE / POINTEAU EMMENCHÉ / MIT GRIFF / CON MANICO / COM CABO / С РУКОЯТКОЙ**

| COD.  | D (mm) | L (mm) | A (mm) |  |  |
|-------|--------|--------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 63466 | 2      | 165    | 8      | 75                                                                                | 10                                                                                  |
| 63467 | 3      |        |        |                                                                                   |                                                                                     |
| 63468 | 4      |        |        |                                                                                   |                                                                                     |
| 63469 | 5      | 175    | 10     | 115                                                                               |                                                                                     |
| 63470 | 6      |        |        |                                                                                   |                                                                                     |
| 63471 | 8      | 185    | 12     | 165                                                                               |                                                                                     |

DIN 7250

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**


Cr-V




■ **SET**

■ **CINCELES, BOTADORES Y GRANETES / CHISELS AND PUNCHES / BURINS, CHASSE-GOUPILLES, CHASSE-CLOUS / MEISSEL UND DURCHSCHLÄGE / SCALPELLI E PUNZONI / ESCOPROS, SACA-TROÇOS E PUNÇÕES / ДОЛОТА И ПРОБОЙНИКИ**

■ **6 PCS.**

| COD.  | PCS. |  |
|-------|------|-----------------------------------------------------------------------------------|
| 69953 | 6    | 700                                                                               |

| PCS. | COD.  | PCS. | Descripción / Description / Description |                  |
|------|-------|------|-----------------------------------------|------------------|
| 1    | 62847 | 1    | Cinzel mecánico / Flat cold chisel      | 12 x 11 x 100 mm |
|      | 62848 |      |                                         | 15 x 14 x 125 mm |
|      | 63398 | 1    | Botador cilíndrico / Pin punch          | 6 x 10 x 150 mm  |
|      | 63396 |      |                                         | 4 x 8 x 150 mm   |
|      | 63416 |      |                                         | 3 x 10 x 125 mm  |
|      | 63436 |      |                                         | 3 x 8 x 100 mm   |

| COD.  | PCS. |  |
|-------|------|-------------------------------------------------------------------------------------|
| 69954 | 6    | 700                                                                                 |

| PCS. | COD.  | PCS. | Descripción / Description / Description |                  |
|------|-------|------|-----------------------------------------|------------------|
| 1    | 62847 | 1    | Cinzel mecánico / Flat cold chisel      | 12 x 11 x 100 mm |
|      | 62848 |      |                                         | 15 x 14 x 125 mm |
|      | 62871 | 1    | Botador cilíndrico / Pin punch          | 5 x 14 x 125 mm  |
|      | 63396 |      |                                         | 4 x 8 x 150 mm   |
|      | 63416 |      |                                         | 3 x 10 x 125 mm  |
|      | 63436 |      |                                         | 3 x 8 x 100 mm   |




■ **BOTADORES CILÍNDRICOS / PIN PUNCHES / CHASSE GOUPILLES / RUNDDURCHSCHLÄGER / PUNZONE CILINDRICO / PUNÇÕES CILÍNDRICAS / ПРОБОЙНИКИ**

■ **6 PCS.**

| COD.  | PCS. |  |
|-------|------|-------------------------------------------------------------------------------------|
| 69957 | 6    | 500                                                                                 |

| PCS. | COD.  | PCS. | Descripción / Description / Description |                 |
|------|-------|------|-----------------------------------------|-----------------|
| 1    | 63394 | 1    | Botador cilíndrico / Pin punch          | 2 x 8 x 100 mm  |
|      | 63395 |      |                                         | 3 x 8 x 150 mm  |
|      | 63396 |      |                                         | 4 x 8 x 150 mm  |
|      | 63397 |      |                                         | 5 x 10 x 150 mm |
|      | 63398 |      |                                         | 6 x 10 x 150 mm |
|      | 63399 |      |                                         | 8 x 12 x 150 mm |




| COD.         | PCS.  |  |                                         |                 |
|--------------|-------|-----------------------------------------------------------------------------------|-----------------------------------------|-----------------|
| <b>69958</b> | 6     | 700                                                                               |                                         |                 |
| PCS.         | COD.  | PCS.                                                                              | Descripción / Description / Description |                 |
| 1            | 63394 |                                                                                   |                                         | 2 x 8 x 100 mm  |
|              | 63395 |                                                                                   |                                         | 3 x 8 x 150 mm  |
|              | 63396 |                                                                                   | Botador cilíndrico / Pin punch          | 4 x 8 x 150 mm  |
|              | 63397 |                                                                                   |                                         | 5 x 10 x 150 mm |
|              | 63398 |                                                                                   |                                         | 6 x 10 x 150 mm |
|              | 63399 |                                                                                   |                                         | 8 x 12 x 150 mm |




■ **BOTADORES Y GRANETES / PUNCHES / POINTEAUX / DURCHSCHLÄGE / PUNZONI / SACA-TROÇOS E PUNÇÕES / ПРОБЕЙНИКИ**

■ **6 PCS.**


| COD.         | PCS.  |  |                                         |                 |
|--------------|-------|-----------------------------------------------------------------------------------|-----------------------------------------|-----------------|
| <b>69955</b> | 6     | 700                                                                               |                                         |                 |
| PCS.         | COD.  | PCS.                                                                              | Descripción / Description / Description |                 |
| 1            | 63415 |                                                                                   |                                         | 2 x 10 x 125 mm |
|              | 63416 |                                                                                   |                                         | 3 x 10 x 125 mm |
|              | 63417 |                                                                                   | Botador cónico / Taper punch            | 4 x 10 x 125 mm |
|              | 63418 |                                                                                   |                                         | 5 x 10 x 125 mm |
|              | 63419 |                                                                                   |                                         | 6 x 10 x 125 mm |
|              | 63437 |                                                                                   | Granete / Center punch                  | 4 x 8 x 100 mm  |



| COD.         | PCS.  |  |                                         |                 |
|--------------|-------|-------------------------------------------------------------------------------------|-----------------------------------------|-----------------|
| <b>69956</b> | 6     | 750                                                                                 |                                         |                 |
| PCS.         | COD.  | PCS.                                                                                | Descripción / Description / Description |                 |
| 1            | 63415 |                                                                                     |                                         | 2 x 10 x 125 mm |
|              | 63416 |                                                                                     |                                         | 3 x 10 x 125 mm |
|              | 63417 |                                                                                     | Botador cónico / Taper punch            | 4 x 10 x 125 mm |
|              | 63418 |                                                                                     |                                         | 5 x 10 x 125 mm |
|              | 63419 |                                                                                     |                                         | 6 x 10 x 125 mm |
|              | 63437 |                                                                                     | Granete / Center punch                  | 4 x 8 x 100 mm  |



■ **60 PCS.**

| COD.         | PCS.  |  |                                         |                 |
|--------------|-------|-------------------------------------------------------------------------------------|-----------------------------------------|-----------------|
| <b>55565</b> | 60    | 4,0                                                                                 |                                         |                 |
| PCS.         | COD.  | PCS.                                                                                | Descripción / Description / Description |                 |
| 5            | 63415 |                                                                                     |                                         | 2 x 10 x 125 mm |
|              | 63416 |                                                                                     |                                         | 3 x 10 x 125 mm |
|              | 63417 |                                                                                     | Botador cónico / Taper punch            | 4 x 10 x 125 mm |
|              | 63418 |                                                                                     |                                         | 5 x 10 x 125 mm |
|              | 63419 |                                                                                     |                                         | 6 x 10 x 125 mm |
|              | 63438 |                                                                                     | Granete / Center punch                  | 8 x 12 x 150 mm |
|              | 63439 |                                                                                     |                                         | 8 x 12 x 150 mm |
|              | 63394 |                                                                                     |                                         | 2 x 8 x 100 mm  |
|              | 63395 |                                                                                     |                                         | 3 x 8 x 150 mm  |
|              | 63396 |                                                                                     | Botador cilíndrico / Pin punch          | 4 x 8 x 150 mm  |
|              | 63397 |                                                                                     |                                         | 5 x 10 x 150 mm |
|              | 63398 |                                                                                     |                                         | 6 x 10 x 150 mm |



15

HERRAMIENTAS PARA AUTOMOCIÓN  
AUTOMOTIVE TOOLS  
OUTILS POUR L'AUTOMOBILE  
AUTOMOBILWERKZEUGE  
UTENSILI PER L'AUTOMOTIVE  
FERRAMENTAS PARA AUTOMOÇÃO  
АВТОМОБИЛЬНЫЙ ИНСТРУМЕНТ

EGNAUTO



# EGA AUTO



La amplia gama de herramientas para automoción EGA Master está concebida para cubrir la gran mayoría de necesidades en la reparación y puesta a punto profesional de vehículos a motor:

*The wide EGA Master automotive tools range has been developed to cover the vast majority of the needs for the professional motor vehicle repair and tuning up:*

La vaste gamme d'outillage pour automation EGA Master est conçue pour couvrir la majorité de besoins à la réparation et la mise au point professionnelle des véhicules à moteur:



## Equipos de taller

*Repair shop equipment*

Équipements d'atelier



## Vaciado y cambio de filtros

*Emptying and filter change*

Vidange et changement de filtres



## Bujías

*Sparkplug*

Bougies



## Motor

*Engine*

Moteur



## Frenos

*Brakes*

Freins



## Ruedas

*Wheels*

Roues



## Electricidad del automóvil

*Auto electrics*

Électricité de l'automobile



## Carrocería

*Bodywork*

Carrosseries



## Inspección

*Inspection*

Inspection



## Juegos de herramientas

*Tool sets*

Jeux d'outils





**EQUIPAMIENTO DE TRABAJO / WORKING EQUIPMENT / ÉQUIPEMENT DE TRAVAIL / ARBEITSGERÄTE / EQUIPAGIAMENTO DA LAVORO / EQUIPAMENTO DE TRABALHO / РАБОЧЕЕ ОБОРУДОВАНИЕ**

**ELEVADOR HIDRÁULICO / TROLLEY JACK / CRIC HYDRAULIQUE / FAHRBARER, HYDRAULISCHER WAGENHEBER / ELEVATORE IDRAULICA / MACACO HIDRÁULICO / ДОМКРАТ-ТЕЛЕЖКА**

| COD.         | CAP. (Ton) | H min. (inch) | H max. (inch) | H min. (mm) | H max. (mm) | L x W x H (mm)   | Kg |
|--------------|------------|---------------|---------------|-------------|-------------|------------------|----|
| <b>51100</b> | 2          | 3             | 20            | 76          | 510         | 1006 x 365 x 135 | 42 |

CE

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                                       |              |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Altura mínima / <i>Min. height</i> / Hauteur minimale                                                                                 | 76 mm        |
| Ruedas delanteras dobles en PU / <i>Double front wheels in PU materia</i> / Roues avants doubles en PU                                | Ø 56 x 43 mm |
| Ruedas traseras de nylon / <i>Back wheels in nylon material</i> / Roues arrières en nylon                                             | Ø 75 x 31 mm |
| Bandeja portaherramientas / <i>Tool tray</i> / Plateau porte-outils                                                                   | ●            |
| Asiento con protector de goma / <i>Saddle with rubber protection</i> / Siège avec protection en caoutchouc                            | ●            |
| Mango ovalado / <i>Oval handle</i> / Manche ovale                                                                                     | 1 m          |
| Control de descenso-ascenso por medio del pedal / <i>Foot pedal lowering-lifting control</i> / Contrôle de descente-montée par pédale | ●            |



| COD.         | CAP. (Ton) | H min. (inch) | H max. (inch) | H min. (mm) | H max. (mm) | L x W x H (mm)  | Kg |
|--------------|------------|---------------|---------------|-------------|-------------|-----------------|----|
| <b>51579</b> | 3          | 5.1/8         | 18.1/8        | 130         | 460         | 630 x 328 x 165 | 29 |

CE

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                            |                |
|------------------------------------------------------------------------------------------------------------|----------------|
| Altura mínima / <i>Min. height</i> / Hauteur minimale                                                      | 130 mm         |
| Ruedas traseras / <i>Back wheels</i> / Roues arrières                                                      | Ø 60 x 35 mm   |
| Ruedas delanteras / <i>Front wheels</i> / Roues avants                                                     | Ø 96 x 52,5 mm |
| Asiento con protector de goma / <i>Saddle with rubber protection</i> / Siège avec protection en caoutchouc | ●              |
| Mango / <i>Handle</i> / Manche                                                                             | 1 m            |



**CABALLETE / AXLE STAND / CHANDELLE / UNTERSTELLBOCK / CAVALLETTI / PREGUIÇA / ОСЕВАЯ ПОДПОРКА**

| COD.         | CAP. (Ton) | H min. (mm) | H max. (mm) | L x W x H (mm)  | Kg  |
|--------------|------------|-------------|-------------|-----------------|-----|
| <b>51102</b> | 2          | 280         | 420         | 195 x 170 x 280 | 5,5 |
| <b>51103</b> | 3          | 290         | 430         | 200 x 190 x 290 | 7,0 |
| <b>51104</b> | 6          | 400         | 600         | 285 x 255 x 400 | 13  |

CE

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                             |          |
|-------------------------------------------------------------------------------------------------------------|----------|
| Pin de seguridad / <i>Safety pin</i> / Axe de sécurité                                                      | ●        |
| Posiciones / <i>Positions</i> / Positions                                                                   |          |
|                                                                                                             | 51102 10 |
|                                                                                                             | 51103 10 |
|                                                                                                             | 51104 13 |
| Zona de contacto protegida con PU / <i>Contact zone protected with PU</i> / Zone de contact protégée par PU | ●        |
| 2 pcs/cod.                                                                                                  | ●        |





■ ELEVADOR DE FOSO / PIT JACK / VÉRINS LÉVE PIÈCES / GETRIEBEBEBER / ELEVATORE / MACACO DE FOSSA / КАНАВНЫЙ ГРУЗОПОДЪЕМНИК

| COD.  | CAP. (Ton) | H min. (mm) | H max. (mm) | L x W x H (mm)   | Kg |
|-------|------------|-------------|-------------|------------------|----|
| 51660 | 0,3        | 1140        | 1945        | 580 x 580 x 1140 | 24 |
| 51661 | 0,5        |             |             |                  |    |

CE

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

Ruedas / Wheels / Roues Ø 76 x 30 mm



■ GRÚA PLEGABLE DE TALLER / FOLDING WORKSHOP CRANE / GRUE PLIABLE DE MAGASIN / WERKSTATTKRAN / GRU PIEGHEVOLE / GRUA HIDRÁULICA ARTICULADA PARA OFICINA / СКЛАДНОЙ ЦЕХОВОЙ КРАН

| COD.  | CAP. (Ton) | H min. (mm) | H max. (mm) | L x W x H (mm)     | Kg |
|-------|------------|-------------|-------------|--------------------|----|
| 51108 | 1          | 25          | 2040        | 1520 x 1100 x 1500 | 65 |

CE

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                 |                                  |
|-------------------------------------------------|----------------------------------|
| Ruedas delanteras / Front wheels / Roues avants | Ø 125 x 35 mm                    |
| Ruedas traseras / Back wheels / Roues arrières  | Ø 88 x 30 mm                     |
| Posiciones / Positions / Positions              | 1/4 Ton, 1/2 Ton, 3/4 Ton, 1 Ton |
| Plegable / Foldable / Pliable                   | ●                                |



■ EQUILIBRADOR DE CARGA / LOAD BALANCER / BALANCIER DE CHARGE / BALANCIERER / EQUILIBRATORE DI CARICO / EQUILIBRADOR DE CARGA / УРАВНИТЕЛЬ ГРУЗА

| COD.  | CAP. (Ton) | L x W x H (mm) | Kg  |
|-------|------------|----------------|-----|
| 51109 | 0,68       | 450 x 55 x 210 | 5,5 |

CE

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                  |        |
|----------------------------------------------------------------------------------|--------|
| Distancia entre ejes P1 / Distance between axles P1 / Distance entre les axes P1 | 315 mm |
| Distancia entre ejes P2 / Distance between axles P2 / Distance entre les axes P2 | 285 mm |
| Distancia entre ejes P3 / Distance between axles P3 / Distance entre les axes P3 | 260 mm |
| Cadenas / Chains / Chaînes                                                       | 4      |
| Longitud de las cadenas / Length of the chains / Longueur des chaînes            | 235 mm |



■ SOPORTE DE MOTOR / ENGINE STAND / SUPPORT DE MOTEUR / MOTORSTÄNDER / CAVALLETTO SOSTEGNO MOTORE / SUPORTE DE MOTOR / КРОНШТЕЙН КРЕПЛЕНИЯ ДВИГАТЕЛЯ

| COD.  | CAP. (Ton) | L x W x H (mm)  | Kg |
|-------|------------|-----------------|----|
| 51107 | 0,675      | 800 x 820 x 870 | 34 |

CE

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                 |              |
|-------------------------------------------------|--------------|
| Ruedas delanteras / Front wheels / Roues avants | Ø 85 x 30 mm |
| Ruedas traseras / Back wheels / Roues arrières  | Ø 75 x 30 mm |
| Rueda central / Middle wheel / Roue centrale    | Ø 62 x 30 mm |
| Plegable / Foldable / Pliable                   | ●            |





■ CAMILLA DE TRABAJO / WORK CREEPER / BRANCARD DE TRAVAIL / WERKSTATTLIEGE / LETTINO SOTTOMACCHINA / ESTRADO DE TRABALHO / РАБОЧАЯ КУШЕТКА

| COD.  | L x W x H (mm)   | Kg  |
|-------|------------------|-----|
| 51589 | 1025 x 425 x 110 | 7,0 |



ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                             |               |
|-----------------------------------------------------------------------------|---------------|
| Ruedas / Wheels / Roues                                                     | Ø 75 x 20 mm  |
| Espesor de la almohadilla / Thickness of the pad / Epaisseur du coussin     | 18 mm         |
| Estructura tubular / Tubular frame / Structure tubulaire                    | Ø 25 x 1,5 mm |
| Máx. capacidad de carga / Max. weight capacity / Capacité maximum de charge | 90 Kg         |
| Cabecera ajustable / Adjustable headrest / Repose-tête réglable             | ●             |

■ ASIENTO DE TRABAJO / WORK SEAT / SIÈGE DE TRAVAIL / WERKSTATHOCKER / SEGGIOLINO CON RUOTE / BANCO DE TRABALHO / РАБОЧЕЕ СИДЕНЬЕ

| COD.  | L x W x H (mm)  | Kg  |
|-------|-----------------|-----|
| 51110 | 360 x 365 x 365 | 5,0 |



ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                             |                |
|-----------------------------------------------------------------------------|----------------|
| Bandeja portaherramientas / Tool tray / Plateau porte-outils                | ●              |
| Ruedas / Wheels / Roues                                                     | Ø 63,5 x 20 mm |
| Espesor de la almohadilla / Thickness of the pad / Epaisseur du coussin     | 44 mm          |
| Máx. capacidad de carga / Max. weight capacity / Capacité maximum de charge | 90 Kg          |
| Cajón portaherramientas / Tool drawer / Tiroir porte-outils                 | ●              |

■ VACIADO Y FILTRADO / LUBRICATION AND FILTRATION / FILTRAGE ET VIDANGE / SCHMIEREN UND FILTERN / LUBRIFICAZIONE E FILTRI / ESVAZIAMENTO E FILTRAGEM / СМАЗКИ И ФИЛЬТРЫ

■ LLAVE AJUSTABLE PARA FILTRO DE ACEITE / ADJUSTABLE OIL FILTER WRENCH / CLÉ RÉGLABLE POUR FILTRE À HUILE / VERSTELLBARER ÖLFILTERBANDSCHLÜSSEL / CHIAVE REGOLABILE PER FILTRI OLIO / CHAVE REGULÁVEL PARA FILTRO DE ÓLEO / КЛЮЧ РАЗВОДНОЙ ДЛЯ МАСЛЕННОГО ФИЛЬТРА

| COD.  | CAP. (mm) | L (mm) | g   | Icon |
|-------|-----------|--------|-----|------|
| 51205 | Ø 60-73   | 230    | 320 | ●    |
| 51206 | Ø 73-85   | 270    | 360 | ●    |
| 51207 | Ø 85-95   | 300    | 370 | ●    |
| 51208 | Ø 95-110  | 350    | 370 | ●    |



■ TENAZA PARA FILTRO DE ACEITE / OIL FILTER PLIER / PINCE POUR FILTRE À HUILE / ÖLFILTERZANGE / PINZA REGOLABILE PER FILTRI OLIO / ALICATES AJUSTÁVEIS PARA FILTROS DE ÓLEO / КЛЕЩИ ДЛЯ МАСЛЯНЫХ ФИЛЬТРОВ

| COD.  | CAP. (mm) | L (mm) | g   | Icon |
|-------|-----------|--------|-----|------|
| 51209 | Ø 60-90   | 260    | 360 | ●    |



■ LLAVE PARA FILTRO DE ACEITE AUTORREGULABLE / SELF-GRIPPING OIL FILTER WRENCH / CLÉ POUR FILTRE À HUILE AUTO-RÉGLABLE / ÖLFILTERSPINNE 3-ARMIG / CHIAVE AUTOREGOLABILE A TRE BRACCI PER FILTRI OLIO / CHAVE PARA FILTRO DE ÓLEO AUTORREGULÁVEL / КЛЮЧ РАЗВОДНОЙ ДЛЯ МАСЛЕННОГО ФИЛЬТРА САМОРЕГУЛИРУЮЩИЙСЯ

| COD.  | AF<br>Inch | CAP. (mm) | g   | Icon |
|-------|------------|-----------|-----|------|
| 51210 | 3/8        | Ø 65-110  | 360 | ●    |





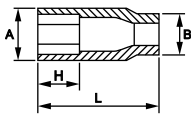
LLAVE PARA FILTRO DE ACEITE / OIL FILTER CAP WRENCH / CLÉ POUR FILTRE À HUILE / ÖLFILTERSCHLÜSSEL / CHIAVE A BUSSOLA PER FILTRI OLIO / CHAVE PARA FILTRO DE OLEO / КЛЮЧ-НАСАДКА ДЛЯ МАСЛЕННОГО ФИЛЬТРА

| COD.  | AF inch | CAP. (mm) | □ N.º | g   |   |              |
|-------|---------|-----------|-------|-----|---|--------------|
| 51244 | 1/2     | Ø 89      | 12    | 200 | • | NISSAN BIG M |



BUJÍAS / SPARK PLUGS / BOUGIES / ZÜNDKERZEN / CANDELE / VELAS DE IGNIÇÃO / СВЕЧИ ЗАЖИГАНИЯ

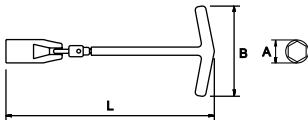
LLAVES DE VASO PARA BUJÍAS / SPARK PLUG SOCKETS / DOUILLES POUR BOUGIES / ZÜNDKERZEN - STECKSCHLÜSSEL / CHIAVI PER CANDELE / CHAVES DE CAIXA PA VELAS / ГОЛОВКИ ДЛЯ СВЕЧЕЙ ЗАЖИГАНИЯ



| COD.  | AF inch | AF mm | A (mm) | B (mm) | H (mm) | L (mm) | g   |   |   |
|-------|---------|-------|--------|--------|--------|--------|-----|---|---|
| 61460 | 3/8     | 16    | 22     | 19     | 17     |        | 100 |   |   |
| 61461 |         | 21    | 28     |        | 20     |        | 150 |   |   |
| 61462 | 1/2     | 16    | 22     | 22     | 14     | 65     | 100 | 6 | • |
| 61463 |         | 21    | 28     | 24     | 16     |        | 150 |   |   |



DE BUJÍA ARTICULADA / SPARK PLUG WRENCH / CLÉS À BOUGIE ART. / ZÜNDKERZENSCHLÜSSEL / CHIAVI PER CANDELE SNODABILE / CHAVE ARTICULADA PARA VELAS / СВЕЧНОЙ КЛЮЧ



| COD.  | L (mm) | AF inch  | A (mm) | B (mm) | g   |   |   |
|-------|--------|----------|--------|--------|-----|---|---|
| 61471 | 230    | 20-13/16 | 28     | 100    | 250 | 8 | • |

DIN 3112



ALICATE PARA CABLES DE BUJÍA / SPARK PLUG LEAD PLIER / PINCE POUR CÂBLE À BOUGIE / ZÜNDKERZENSTECKER ZANGE / PINZE PER CAVI CANDELE / ALICATE PARA CABOS DE VELA / ШИПЦЫ ДЛЯ ПРОВОДОВ СВЕЧЕЙ ЗАЖИГАНИЯ

| COD.  | CAP. (mm) | L (mm) | g   |   |
|-------|-----------|--------|-----|---|
| 51215 | Ø 9       | 270    | 280 | • |



GALGAS DE ESPESORES / FEELER GAUGE / JAUGES D'ÉPAISSEUR / FÜHLERLEHRE FÄCHER / GALGAS DE ESPESORES / APALPA-FOLGAS / НАБОР ЩУПОВ В КОРПУСЕ

| COD.  | N.º Hojas / No. Blades / Nro. Lames | Rango (mm) / Range (mm) / Rang (mm) | Rango (inch) / Range (inch) / Rang (inch)               | L (mm) | g  |   |
|-------|-------------------------------------|-------------------------------------|---------------------------------------------------------|--------|----|---|
| 65550 | 8                                   | 0.05-0.1-0.15-0.2-0.25-0.3-0.4-0.5  | 0.002"-0.004"-0.006"-0.008"-0.010"-0.012"-0.016"-0.020" | 150    | 80 | 6 |



CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Acero templado / Hardened steel / Acier endurci





**GALGAS DE ESPESORES DE PRECISIÓN / PRECISION FEELER GAUGE / JAUGES D'ÉPAISSEUR DE PRÉCISION / PRÄZISION FÜHLERLEHRE FÄCHER / SPESSIMETRI DI PRECISIONE / APALPA FOLGAS DE PRECISÃO / СВЕРХТОЧНЫЕ ЩУПЫ В КОРПУСЕ**

| COD.         | N.º Hojas / No. Blades / Nro. Lames | Rango (mm) / Range (mm) / Rang (mm)                                             | Rango (inch) / Range (inch) / Rang (inch)                                                                                       | L (mm) | g  | Icon |
|--------------|-------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------|----|------|
| <b>65565</b> | 18                                  | 0.05-0.06-0.07-0.08-0.09-0.1-0.15-0.2-0.25-0.3-0.35-0.4-0.5-0.6-0.7-0.8-0.9-1.0 | 0.002"-0.0024"-0.0028"-0.0032"-0.0036"-0.004"-0.006"-0.008"-0.010"-0.012"-0.014"-0.016"-0.02"-0.024"-0.028"-0.032"-0.036"-0.04" | 100    | 80 | 6    |

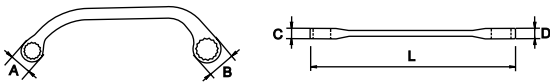


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero templado / Hardened steel / Acier endureci  
 Con tuerca de bloqueo / With lock nut / Avec écrou auto bloquant

**MEDIA LUNA / HALF MOON / DEMI-LUNE / STARTER BLOCKSCHLÜSSEL / A MEZZALUNA / MEIA-LUNA / МОТОРНЫЙ КЛЮЧ**

MM



| COD.         | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   | Icon | Icon | Icon |
|--------------|-------|--------|--------|--------|--------|--------|-----|------|------|------|
| <b>57158</b> | 6-8   | 135    | 15     | 19     | 8      | 8      | 55  | 10   | ●    | B    |
| <b>57155</b> | 7-9   |        |        |        |        |        |     |      |      |      |
| <b>57159</b> | 8-10  | 150    | 20     | 22     | 9      | 9      | 90  | 10   | ●    | B    |
| <b>57156</b> | 10-12 |        |        |        |        |        |     |      |      |      |
| <b>60795</b> | 11-13 | 175    | 25     | 28     | 10     | 10     | 120 | 10   | ●    | B    |
| <b>57160</b> | 13-15 |        |        |        |        |        |     |      |      |      |
| <b>60796</b> | 13-17 | 185    | 28     | 31     | 11     | 11     | 180 | 10   | ●    | B    |
| <b>57161</b> | 14-16 |        |        |        |        |        |     |      |      |      |
| <b>60797</b> | 14-17 | 210    | 31     | 35     | 12     | 12     | 280 | 10   | ●    | B    |
| <b>57162</b> | 17-19 |        |        |        |        |        |     |      |      |      |
| <b>57157</b> | 18-20 | 230    | 32     | 35     | 12     | 12     | 300 | 10   | ●    | B    |
| <b>60798</b> | 19-22 |        |        |        |        |        |     |      |      |      |
| <b>57163</b> | 21-22 |        |        |        |        |        |     |      |      |      |

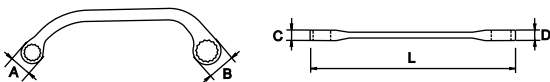


DIN 475

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

INCH



| COD.         | AF inch    | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   | Icon | Icon | Icon |
|--------------|------------|--------|--------|--------|--------|--------|-----|------|------|------|
| <b>57148</b> | 1/4- 5/16  | 135    | 15     | 19     | 8,0    | 8,0    | 55  | 10   | ●    | B    |
| <b>57149</b> | 5/16- 3/8  |        |        |        |        |        |     |      |      |      |
| <b>57150</b> | 7/16- 1/2  | 155    | 20     | 23     | 9,0    | 9,0    | 90  | 10   | ●    | B    |
| <b>57151</b> | 9/16- 5/8  |        |        |        |        |        |     |      |      |      |
| <b>57152</b> | 11/16- 3/4 | 210    | 28     | 31     | 11     | 11     | 210 | 10   | ●    | B    |
| <b>57153</b> | 13/16- 7/8 |        |        |        |        |        |     |      |      |      |
| <b>57153</b> | 13/16- 7/8 | 230    | 32     | 35     | 12     | 12     | 300 |      |      |      |



DIN 475

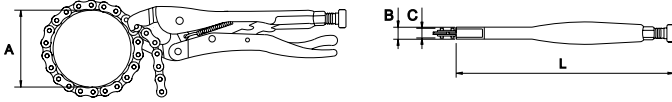
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**




Cr-V

• Para más información de dimensiones y características del producto, consultar en el capítulo correspondiente del catálogo general o en [www.egamaster.com](http://www.egamaster.com). / For more details about features and dimensions of the products, check the corresponding chapter of the General Catalogue or [www.egamaster.com](http://www.egamaster.com). / Pour plus d'informations sur les dimensions et les caractéristiques du produit, consulter le chapitre correspondant de notre catalogue général ou sur [www.egamaster.com](http://www.egamaster.com).  
 B Cromado aeroespacial / Aerospaceal chrome plating / Chromée aérospatiale

EG/AUTO

TENAZA GRIP CON CADENA / GRIP PLIER WITH CHAIN / PINCE ÉTAU À CHAÎNE / GRIPZANGE MIT KETTE / PINZE A MORSETTO CON CATENA / ALICATES DE GRIF COM CORRENTE / КЛЕЩИ ДЛЯ СВАРКИ С ЦЕПНЫМ ЗАЖИМОМ




| COD.  | L (inch) | A (mm) | B (mm) | C (mm) |  |  |  |
|-------|----------|--------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 62174 | 9        | 150    | 13     | 7,0    | 20                                                                                | 750                                                                               | 1                                                                                   |
| 62601 |          | 215    |        |        | 27.1/2                                                                            | 850                                                                               |                                                                                     |



ELECTRICIDAD AUTO / AUTO ELECTRICS / ELECTRICITÉ AUTO / AUTO ELEKTRIK / ELETTRAUTO / ELECTRICIDADE AUTO / АВТО ЭЛЕКТРИКА

COMPROBADORES / TESTERS / CONTRÔLEURS / TESTER / TESTER / COMPROVADORES / ТЕСТЕРЫ

PINZA AMPERIMÉTRICA / CLAMP METER / PINCE AMPÈREMÉTRIQUE / STROMZANGE / PINZA APERIMETRICA / PINÇA AMPERIMÉTRICA / ИНДУКЦИОННЫЙ ИЗМЕРИТЕЛЬ

| COD.  |  |  |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 51719 | 235                                                                               | 1                                                                                 |

CE I 12M

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                  |                                      |
|-------------------------------------------------------------------------------------------|--------------------------------------|
| ACV                                                                                       | 600 V ±(1%+5)                        |
| DCV                                                                                       | 600 V ±(0,8%+1)                      |
| DCA                                                                                       | 400 A ±(2%+3)                        |
| ACA                                                                                       | 400 A ±(2,5%+5)                      |
| Ω                                                                                         | 40 MΩ ±(2%+2)                        |
| Hz                                                                                        | 10Hz~60kHz ±(0,5%+2)                 |
| Medidor de continuidad por sonido / Continuity buzzer / Mesure de continuité par son      | ●                                    |
| Medición del ciclo de trabajo / Duty cycle / Mesure du cycle de travail                   | ●                                    |
| Test diodo y transistores / Diode & transistors test / Test diode et transistors          | ●                                    |
| Función fijación de datos / Data hold function / Fonction mémorisation des renseignements | ●                                    |
| Indicador de batería baja / Low battery indication / Indicateur de charge de batterie     | ●                                    |
| Alimentación / Power / Poids                                                              | 3 V (2 x AAA)                        |
| Auto range                                                                                | ●                                    |
| True RMS                                                                                  | ●                                    |
| Duty Cycle 0,1%-99,9%                                                                     | ●                                    |
| Función Pico / Peak Function / Fonction de piquage                                        | ●                                    |
| Display                                                                                   | 4000                                 |
| Cables de prueba / Test leads / Jeu de cordons de mesure                                  | Cod. 51270 (CATI 1000V - CATII 600V) |





**MULTÍMETRO DIGITAL PARA AUTOMÓVILES / AUTOMOTIVE DIGITAL MULTIMETER / MULTIMÈTRE DIGITAL POUR AUTO / AUTOMOTIVE DIGITALER MULTIMETER / MULTIMETRO DIGITALE PER AUTOMOBILI / MULTIMETRO DIGITAL AUTO / АВТОМОБИЛЬНЫЙ ЦИФРОВОЙ МУЛЬТИМЕТР**

| COD.         |     |   |
|--------------|-----|---|
| <b>51260</b> | 655 | 1 |

CE I 12M



| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                  |                                        |
|-------------------------------------------------------------------------------------------|----------------------------------------|
| ACV                                                                                       | 1000 V ±(0,8%+3)                       |
| DCV                                                                                       | 1000 V ±(0,5%+3)                       |
| DCA                                                                                       | 10 A ±(1%+2)                           |
| ACA                                                                                       | 10 A ±(1,2%+5)                         |
| Ω                                                                                         | 40 MΩ ±(1%+5)                          |
| °C                                                                                        | -40 °C-537 °C ±(1%+10)                 |
| °F                                                                                        | -40 °F-998 °F ±(1%+18)                 |
| Hz                                                                                        | 1 MHz ±(0,1%+4)                        |
| Dwell                                                                                     | 8 CyL ±(3%+5)                          |
| Tasch                                                                                     | 8 CyL ±(3%+5)                          |
| Medidor de continuidad por sonido / Continuity buzzer / Mesure de continuité par son      | ●                                      |
| Medición del ciclo de trabajo / Duty cycle / Mesure du cycle de travail                   | ●                                      |
| Test diodo y transistores / Diode & transistors test / Test diode et transistors          | ●                                      |
| Función fijación de datos / Data hold function / Fonction mémorisation des renseignements | ●                                      |
| Indicador de batería baja / Low battery indication / Indicateur de charge de batterie     | ●                                      |
| Alimentación / Power / Poids                                                              | 9 V (6F22)                             |
| Auto range                                                                                | ●                                      |
| Pantalla retroiluminada / Back light display / Écran à rétro-éclairage                    | ●                                      |
| Display                                                                                   | 3999                                   |
| Cables de prueba / Test leads / Jeu de cordons de mesure                                  | Cod. 51271 (CATIII 1000V - CATIV 600V) |

**CONECTORES Y FUSIBLES / CONNECTORS AND FUSES / CONNECTEURS ET FUSIBLES / STECKER UND SICHERUNGEN / CONNETTORI E FUSIBILI / CONECTORES E FUSÍVEIS / СОЕДИНИТЕЛИ И ПРЕДОХРАНИТЕЛИ**

**PARA UNIÓN DE CABLES AISLADOS Y NO AISLADOS / FOR CABLE LINKS INSULATED & NO INSULATED / POUR UNION DE CABLES ISOLES ET NON ISOLES / FÜR ISOLIERTE UND NICHT ISOLIERTE KABELSCHUHE / PER UNIRE CAVI ISOLATI E NON ISOLATI / PARA UNIÃO DE CABOS ISOLADOS E NÃO ISOLADOS / ДЛЯ ИЗОЛИРОВАННЫХ И НЕИЗОЛИРОВАННЫХ КОНТАКТОВ**

| COD.         | L (mm) | AWG                          | (mm)                                     | CAP. (mm <sup>2</sup> )                 | DIN (mm <sup>2</sup> )         |     |   |   |  |
|--------------|--------|------------------------------|------------------------------------------|-----------------------------------------|--------------------------------|-----|---|---|--|
| <b>62494</b> | 220    | 10-12-<br>14-16-<br>18-20-22 | 2,59-2,05-1,63-1,29-1,02-<br>0,812-0,644 | 5,26-3,31-2,08-1,31-0,82-<br>0,52-0,324 | 6-4-2,5-<br>1,5-1-0,75-<br>0,5 | 190 | 6 | ● |  |



**PARA TERMINALES AISLADOS / FOR INSULATED TERMINALS / POUR TERMINAUX ISOLES / FÜR ISOLIERTE KABELSCHUHE / PER TERMINALI ISOLATI / PARA TERMINAIS ISOLADOS / ДЛЯ ИЗОЛИРОВАННЫХ КОНТАКТОВ**

| COD.         | L (inch) | AWG   | (mm)       | CAP. (mm <sup>2</sup> ) | DIN (mm <sup>2</sup> ) |     |   |   |  |
|--------------|----------|-------|------------|-------------------------|------------------------|-----|---|---|--|
| <b>62591</b> | 9        | 22-10 | 0,644-2,59 | 0,324-5,26              | 0,5-6                  | 550 | 6 | ● |  |



• Para más información de dimensiones y características del producto, consultar en el capítulo correspondiente del catálogo general o en [www.egamaster.com](http://www.egamaster.com). / For more details about features and dimensions of the products, check the corresponding chapter of the General Catalogue or [www.egamaster.com](http://www.egamaster.com). / Pour plus d'informations sur les dimensions et les caractéristiques du produit, consulter le chapitre correspondant de notre catalogue général ou sur [www.egamaster.com](http://www.egamaster.com).

**12M** GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ



**CORTABRIDAS / PLASTIC TIE CUTTER / PINCE COUPE COLLIERS PLASTIQUES / KABELBINDER SCHNEIDER / PINZA TAGLIA FASCETTE IN NYLON / CORTA-ABRAÇADEIRA / РЕЗАК ДЛЯ ПЛАСТИКОВЫХ ХОМУТОВ**

| COD.         | L (mm) |     |   |   |
|--------------|--------|-----|---|---|
| <b>63915</b> | 150    | 100 | 6 | • |

RCD Nº 2029504 | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Corta bridas sin dañar los cables / It cuts the ties without damaging the cables / Il coupe les colliers plastiques sans abimer les cables



**MOTOR / ENGINE / MOTEUR / MOTOR / MOTORE / MOTOR / ДВИГАТЕЛЬ**

**ABRAZADERA-MANGUITOS-JUNTAS / CLIPS-HOSES-GASKETS / COLLIER-DURITES-JOINTS / KLEMMEN-SCHLÄUCHE-DICHTUNGEN / CLIPS-TUBI-GUARNIZIONI / ABRAÇADEIRA-CABOS-JUNTAS / КЛИПЫ - ШЛАНГИ - ПРОКЛАДКИ**

**ALICATE PARA RACORES DE CARBURANTE / FUEL LINE PLIER / PINCE POUR RACCORDS DE CARBURANT / BREMSCHLAUCHZANGE / PINZE PER RACCORDI CARBURANTE / ALICATE PARA LIGAÇÕES RÁPIDAS DE TUBOS DE COMBUSTÍVEL / ПЛОСКОГУБЦЫ ДЛЯ ТОПЛИВНЫХ ТРУБОПРОВОДНЫХ СОЕДИНЕНИЙ**

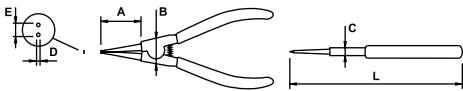
| COD.         | CAP. (mm) | L (mm) |    |   |
|--------------|-----------|--------|----|---|
| <b>51216</b> | Ø 8       | 120    | 75 | • |
| <b>51217</b> | Ø 10      |        |    |   |



**ALICATES CIRCLIPS / CIRCLIPS PLIERS / PINCES POUR CIRCLIPS / ZANGEN FÜR SICHERUNGSRINGE / PINZE PER ANELLI / ALICATES FREIOS / СЪЕМНИК КОЛЕЦ**

**PAVONADO / BLACK FINISHED / BRUNIE / BRÜNIERT / BRUNITO / BRUNIDO / ЧЕРЕННЫЕ**

**EXTERIOR RECTO / EXTERNAL STRAIGHT / EXTERIEUR DROIT / AUSSENSICHERUNGSRINGE, GERADE / DIRITTA PER ESTERNI / EXTERIOR DIREITO / НАРУЖНЫЕ ПРЯМЫЕ**

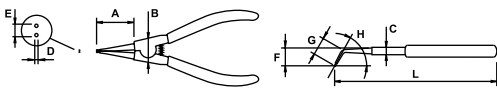


| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) |        |     |   |   |
|--------------|--------|--------|--------|--------|--------|--------|--------|-----|---|---|
| <b>62214</b> | 150    | 36     | 23     | 8,5    | 0,9    | 3,8    | 3-10   | 105 | 6 | • |
| <b>62215</b> |        |        |        | 9,5    | 1,2    | 4,5    | 10-25  |     |   |   |
| <b>62183</b> | 175    | 43     | 25     | 11     | 1,8    | 5,5    | 19-60  | 280 | - | - |
| <b>62216</b> | 230    | 55     | 29     |        | 2,4    | 40-100 |        |     |   |   |
| <b>62217</b> | 320    | 75     | 37     | 13     | 3,1    | 9,0    | 85-200 | 470 | - | - |

DIN 5254



**EXTERIOR CURVO / EXTERNAL BENT / EXTERIEUR COUDÉ / BACKEN UM 90 GEBOGEN / PIEGATO PER ESTERNI / EXTERIOR CURVO / НАРУЖНЫЕ ИЗОГНУТЫЕ**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (°) |        |     |   |   |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-----|---|---|
| <b>62218</b> | 140    | 30     | 22     | 8,5    | 0,9    | 4,5    | 14     | 15     | 50    | 3-10   | 105 | 6 | • |
| <b>62219</b> | 145    |        |        |        | 1,3    | 5,0    | 15     | 10-25  |       |        |     |   |   |
| <b>62182</b> | 170    | 37     | 25     | 9,5    | 1,8    | 7,0    | 18     | 18     | 90    | 19-60  | 280 | - | - |
| <b>62220</b> | 210    |        |        |        |        |        |        |        |       | 28     |     |   |   |
| <b>62221</b> | 300    | 49     | 37     | 14     | 3,2    | 9,5    | 34     | 30     | 90    | 85-200 | 490 | - | - |

DIN 5254





**INTERIOR RECTO / INTERNAL STRAIGHT / INTERIEUR DROIT / INNENSICHERUNGSRINGE, GERADE / DIRITTO PER INTERNI / INTERIOR DIREITO / ВНУТРЕННИЕ ПРЯМЫЕ**

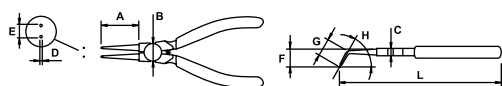


| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | O.D. mm | g   | Icon | Icon |
|-------|--------|--------|--------|--------|--------|--------|---------|-----|------|------|
| 62222 | 150    | 36     | 16     | 8,5    | 1,2    | 17     | 8-13    | 100 |      |      |
| 62223 | 150    | 36     | 16     | 8,5    | 1,3    | 19     | 12-25   | 100 |      |      |
| 62181 | 175    | 44     | 18     | 9,5    | 1,8    | 21     | 19-60   | 145 | 6    | •    |
| 62224 | 230    | 50     | 24     | 11     | 2,2    | 75     | 40-100  | 270 |      |      |
| 62225 | 330    | 70     | 27     | 13     | 2,9    | 80     | 85-200  | 420 |      |      |

DIN 5256



**INTERIOR CURVO / INTERNAL BENT / INTERIEUR COUDÉ / BACKEN UM 90 GEBOGEN / PIEGATTO PER INTERNI / INTERIOR CURVO / ВНУТРЕННИЕ ИЗОГНУТЫЕ**



| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (°) | O.D. mm | g   | Icon | Icon |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|---------|-----|------|------|
| 62226 | 150    | 28     | 16     | 9,0    | 1,3    | 15     | 16     | 15     | 50    | 8-13    | 100 |      |      |
| 62227 | 150    | 28     | 16     | 9,0    | 1,3    | 15     | 16     | 15     | 50    | 12-25   | 100 |      |      |
| 62180 | 170    | 33     | 18     | 10,0   | 1,7    | 16     | 20     | 17     | 50    | 19-60   | 150 | 6    | •    |
| 62228 | 215    | 35     | 25     | 11     | 2,1    | 50     | 24     | 24     | 90    | 40-100  | 270 |      |      |
| 62229 | 300    | 48     | 28     | 13     | 3      | 75     | 33     | 33     | 90    | 85-200  | 420 |      |      |

DIN 5256



**ALICATE PARA DESMONTAR Y MONTAR ABRAZADERAS ELÁSTICAS AUTOBLOCANTES / SPRING CLAMP FITTING AND REMOVAL PLIER / PINCE POUR MONTER ET DÉMONTÉ DES COLLIERES ÉLASTIQUES AUTO-BLOQUANTS / SCHLAUCHSCHELLENZANGE / PINZA PER IL MONTAGGIO E LO SMONTAGGIO DELLE CLIPS ELASTICHE / ALICATE PARA DESMONTAR E MONTAR ABRAÇADEIRAS ELÁSTICAS DE FECHO AUTOMÁTICO / ЩИПЦЫ ДЛЯ МОНТИРОВАНИЯ И СНЯТИЯ ЭЛАСТИЧЕСКИХ СКОБ**

| COD.  | CAP. (mm) | L (mm) | g   | Icon |   |
|-------|-----------|--------|-----|------|---|
| 51218 | Ø 18-54   | 220    | 630 | 500  | • |



**ALICATE AUTOMÁTICO PARA BRIDAS / AUTOMATIC PLIERS FOR PLASTIC CABLE-TIES / PINCE POUR COLLIERES PLASTIQUES AUTOMATIQUE / KABELBINDERZANGE / SPELAFILI AUTOMATICA / ALICATE AUTOMÁTICO PARA ABRAÇADEIRAS PLÁSTICAS / АВТОМАТИЧЕСКИЕ КУСАЧКИ ДЛЯ СВЯЗКИ ПЛАСТИКОВЫХ КАБЕЛЕЙ**

| COD.  | L (mm) | g       | Icon |   |
|-------|--------|---------|------|---|
| 62602 | 160    | 2,2-4,8 | 290  | 1 |



**ALICATE PARA MANGUITOS / HOSE CLAMP / PINCE À DURITES / ABKLEMMZANGE FÜR SCHLÄUCHE / PINZE PER TUBI FLESSIBILI / GRAMPOS PARA OCLUSÃO DE TUBOS / КУСАЧКИ ДЛЯ ХОМУТОВ**

| COD.  | CAP. (mm) | L (mm) | g  | Icon |
|-------|-----------|--------|----|------|
| 51219 | Ø 8-15    | 160    | 50 |      |
| 51220 | Ø 15-28   | 185    | 80 | •    |
| 51221 | Ø 25-55   | 250    | 85 |      |

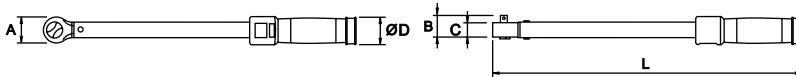


• Para más información de dimensiones y características del producto, consultar en el capítulo correspondiente del catálogo general o en [www.egamaster.com](http://www.egamaster.com). / For more details about features and dimensions of the products, check the corresponding chapter of the General Catalogue or [www.egamaster.com](http://www.egamaster.com). / Pour plus d'informations sur les dimensions et les caractéristiques du produit, consulter le chapitre correspondant de notre catalogue général ou sur [www.egamaster.com](http://www.egamaster.com).



APRIETE CONTROLADO / CONTROLLED TIGHTENING / SERRAGE CONTROLÉ / KONTROLLIERTES ANZIEHEN / COTROLLO DI SERRAGGIO / APERTO CONTROLADO / КОНТРОЛИРУЕМАЯ ЗАТЯЖКА

LLAVE DINAMOMÉTRICA REVERSIBLE ANALÓGICA / ANALOGIC REVERSIBLE TORQUE WRENCH / CLÉ DYNAMOMÉTRIQUE ANALOGIQUE RÉVERSIBLE / ANALOGE UMKEHRBARE DREHMOMENTSCHLÜSSEL / CHIAVE DINAMOMETRICA ANALOGICA REVERSIBILE / CHAVE DINAMOMÉTRICA REVERSÍVEL ANALÓGICA / РЕВЕРСИВНЫЙ АНАЛОГОВЫЙ ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ



| COD.  | AF inch | N.m      | Lb.ft    | Lb.in     | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | Kg   | Icon |
|-------|---------|----------|----------|-----------|--------|--------|--------|--------|--------|------|------|
| 62951 |         | 2.5-12   |          | 20-105    | 290    |        |        |        |        |      |      |
| 62952 | 1/4     | 4-20     |          | 30-180    | 290    | 28     | 30     | 19     |        | 0,8  |      |
| 65871 |         | -        | -        | 35-180    | 230    |        |        |        |        |      |      |
| 62965 |         | 6-30     |          | 50-250    | 320    | 37     | 40     |        |        | 0,9  |      |
| 65872 | 3/8     | -        |          | 120-450   | 380    | 40     | 44     |        |        |      |      |
| 62953 |         | 25-125   | 20-90    | -         |        |        | 40     |        |        | 1,3  |      |
| 57686 |         | 10-70    | -        | 100-600   | 440    | 38     | 41     |        |        | 0,9  |      |
| 62954 |         | 25-125   | 20-90    | -         |        |        |        | 25     |        | 1,3  |      |
| 65873 |         | -        | -        | 350-1800  | 520    |        |        |        |        |      |      |
| 62963 | 1/2     | 40-200   | 30-150   | -         | 460    |        |        |        | 38     | 1,4  | 1    |
| 62968 |         | 65-335   | 50-250   | -         | 520    | 40     | 44     |        |        | 1,5  |      |
| 65918 |         | -        | -        | 1000-3000 | 520    |        |        |        |        |      |      |
| 62983 |         | 80-400   | 60-300   | -         | 750    |        |        |        |        | 1,9  |      |
| 62969 | 3/4     | 160-800  | 120-600  | -         | 1040   | 60     | 66     | 39     |        | 8,6  |      |
| 62976 |         | 200-1000 | 150-750  | -         |        |        |        |        |        |      |      |
| 62977 |         | 300-1500 | 200-1100 | -         |        |        |        |        |        | 12   |      |
| 62978 | 1       | 400-2000 | 300-1500 | -         | 1250   | 72     | 82     | 40     |        | 12,2 |      |
| 62979 |         | 600-3000 | 400-2200 | -         |        |        |        |        |        | 13,2 |      |



12M

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                |    |
|--------------------------------------------------------------------------------|----|
| Precisión / Accuracy / Précision                                               | 3% |
| Certificado de calibración / Calibration certificate / Certificat de calibrage | ●  |
| Reversible / Reversible / Réversible                                           | ●  |
| Dientes / Teeth / Dents                                                        | 45 |
| Estuche individual / Individual case / Étui individuel                         | ●  |

BARRA DE EXTENSIÓN PARA LLAVE DINAMOMÉTRICA / EXTENSION BAR FOR TORQUE WRENCH / RALLONGE POUR CLÉ DYNAMOMÉTRIQUE / VERLÄNGERUNG F/ DREHMOMENTSCHLÜSSEL / BARRA ESTENSIBILE PER CHIAVE DINAMOMETRICA / EXTENSÃO PARA CHAVE DINAMOMÉTRICA / УДЛИНИТЕЛЬ ДЛЯ ДИНАМОМЕТРИЧЕСКОГО КЛЮЧА

| COD.  | L (mm) | O.D. mm | Válido para / Valid for / Valable pour | Kg  | Icon |
|-------|--------|---------|----------------------------------------|-----|------|
| 56497 | 1100   | 38      | 62977, 62978, 56494, 56495             | 3,4 | 1    |
| 56498 |        | 40,5    | 62979, 56496                           | 4,7 |      |





MULTIPLICADORES DE PAR DE PRECISIÓN / PRECISION TORQUE MULTIPLIERS / MULTIPLICATEURS DE COUPLE DE PRÉCISION / PRÄZISION KRAFTVERVIelfÄLTIGER /  
 MULTIPLICATORI DI COPPIA / MULTIPLICADOR DE BINÁRIO DE PRECISÃO / УСИЛИТЕЛЬ КРУТЯЩЕГО МОМЕНТА (МУЛЬТИПЛИКАТОР)

| COD.  | OUT<br>(max.)<br>N.m | OUT<br>(max.)<br>Lb.ft | Ratio neto / Net ratio /<br>Ratio net | IN<br>(max.)<br>N.m | IN<br>(max.)<br>Lb.ft | IN (inch) | OUT (inch) | 62954, 62963, 62968 | 62969 | Kg  |
|-------|----------------------|------------------------|---------------------------------------|---------------------|-----------------------|-----------|------------|---------------------|-------|-----|
| 63850 | 1700                 | 1250                   | 4,5:1                                 | 378                 | 279                   | 1/2       | 3/4        | 62954, 62963, 62968 |       | 4,5 |
| 63857 | 6000                 | 4500                   |                                       | 1325                | 977                   | 3/4       | 1 1/2      | 62969               |       | 15  |

12M



**Ejemplo:**

Para obtener un par de salida de 1800Nm, se debe introducir un par de entrada: Par de entrada= par de salida x ratio neto factor de multiplicación 1800 x 1/4.5 = 400Nm /

**Example:**

To obtain an output torque of 1800Nm, user should apply an input torque of: Input torque= output torque x net ratio multiplication factor 1800 x 1/4.5 = 400Nm

**Exemple:**

Pour obtenir un moment de sortie de 1800 NM, il faut introduire un moment d'entrée: Force d'entrée= force de sortie x ratio net facteur multiplicateur 1800 x 1/4.5 = 400Nm

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

**DISPOSITIVO ANTIRRETORNO:**

Los multiplicadores de par con una caja de engranajes de relación 22.5:1, disponen de un sistema antirretorno para eliminar la reacción originada en el apriete. Este dispositivo bloquea la tuerca, evitando que el multiplicador rebobine dado el alto ratio de multiplicación que soporta. Esto garantiza al usuario un uso cómodo, fácil y seguro. Todos los modelos disponen de una maleta para su protección y fácil transporte.

**NON-RETURN SYSTEM:**

Torque multipliers with a 22.5:1 relation gearbox, include a non-return system to avoid the reaction induced in the grip. This system locks up the nut, not allowing the torque multiplier to rewind, due to the high ratio level supported. These guarantees the user a safe, easy and comfortable use. All models have a special case in order to be well protected and easy to transport.

**DISPOSITIF ANTI RETOUR:**

Les multiplicateurs de couple ont une boîte d'engrenage de rapport 22.5:1, ils sont dotés d'un système anti-retour pour éliminer la réaction produite par le serrage. Ce dispositif bloque l'écrou, évitant que le multiplicateur rebobine à cause du haut ratio multiplicateur qu'il supporte. Ce qui confère à l'utilisateur une utilisation confortable, aisée et sûre. Tous les modèles sont présentés avec une mallette pour leur protection et leur transport.

EGMA Master  
 ART IN INNOVATION

• Para más información de dimensiones y características del producto, consultar en el capítulo correspondiente del catálogo general o en [www.egamaster.com](http://www.egamaster.com). / For more details about features and dimensions of the products, check the corresponding chapter of the General Catalogue or [www.egamaster.com](http://www.egamaster.com). / Pour plus d'informations sur les dimensions et les caractéristiques du produit, consulter le chapitre correspondant de notre catalogue général ou sur [www.egamaster.com](http://www.egamaster.com).

12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

Si no encuentra el artículo que necesita, consútenos en [consulta@egamaster.com](mailto:consulta@egamaster.com) o en [www.egamaster.com](http://www.egamaster.com)  
 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
 Si vous ne trouvez pas l'article que vous desirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)



**PUNTAS ATORNILLADORAS CON VASO / SOCKET BITS / EMOBOUTS DE VISSAGE AVEC DOUILLE / STECKSCHLÜSSELINSATZ / INSERTI A BUSSOLA / PONTAS APARAFUSADORAS COM CAIXA / ГОЛОВКИ-БИТЫ**

1/4"

TORX®

| COD.  |      | L (mm) |    |    |   |
|-------|------|--------|----|----|---|
| 66729 | T-6  |        |    | 15 |   |
| 66730 | T-7  |        |    |    |   |
| 66748 | T-8  |        |    |    |   |
| 66749 | T-9  |        |    |    |   |
| 66750 | T-10 |        |    |    |   |
| 66751 | T-15 | 37     | 15 |    | • |
| 66752 | T-20 |        |    | 10 |   |
| 66753 | T-25 |        |    |    |   |
| 66754 | T-27 |        |    |    |   |
| 66755 | T-30 |        |    |    |   |
| 66756 | T-40 |        |    |    |   |



3/8"

TORX®

| COD.  |      | L (mm) |    |    |   |
|-------|------|--------|----|----|---|
| 66788 | T-10 |        |    |    |   |
| 66789 | T-15 |        |    |    |   |
| 66790 | T-20 |        |    |    |   |
| 66791 | T-25 |        |    |    |   |
| 66792 | T-27 |        |    |    |   |
| 66793 | T-30 | 48     | 35 | 10 | • |
| 58891 | T-35 |        |    |    |   |
| 66794 | T-40 |        |    |    |   |
| 66795 | T-45 |        |    |    |   |
| 66796 | T-50 |        |    |    |   |
| 53063 | T-60 |        |    |    |   |



**LLAVES TORX® / TORX® KEYS / CLÉS TORX® / TORX® INBUSSCHLÜSSEL / CHIAVI TORX® / CHAVES TORX® / КЛЮЧ TORX®**

| COD.  | PCS. |     |    |
|-------|------|-----|----|
| 65351 | 9    | 250 | 12 |

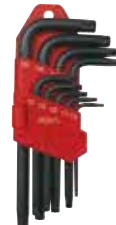
**Composición / Composition / Composition**

65333, 65334, 65335, 65336, 65337, 65338, 65339, 65340, 65341 T10-T15-T20-T25-T27-T30-T40-T45-T50

| COD.  | PCS. |     |   |
|-------|------|-----|---|
| 65665 | 9    | 300 | 6 |

**Composición / Composition / Composition Descripción / Description / Description**

65342, 65343, 65344, 65345, 65346, 65347, 65348, 65349, 65350 Serie larga / Long serie / Série longue T10-T15-T20-T25-T27-T30-T40-T45-T50



\*Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acutment Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)





■ LLAVES TAMPER TORX / TAMPER TORX KEYS / CLÉS TAMPER TORX / TAMPER TORX INBUSSCHLÜSSEL / CHIAVI TAMPER TORX / CHAVES TAMPER TORX / КЛЮЧ TAMPER TORX

| COD.  | PCS. |     |    |
|-------|------|-----|----|
| 65650 | 9    | 250 | 12 |

Composición / Composition / Composition

56546, 56547, 56548, 56549, 56550, 56551, 56552, 56553, 56554 TT10-TT15-TT20-TT25-TT27-TT30-TT40-TT45-TT50

| COD.  | PCS. |     |   |
|-------|------|-----|---|
| 56566 | 9    | 300 | 6 |

Composición / Composition / Composition

56556, 56557, 56558, 56559, 56560, 56561, 56562,  
56563, 56564

Descripción / Description / Description

Serie larga / Long serie / Série longue

TT10-TT15-TT20-TT25-TT27-TT30-TT40-TT45-TT50



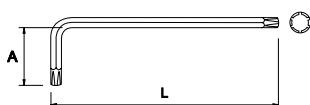
■ PUNTA RIBE® CON VASO / RIBE® BIT SOCKETS / POINTE RIBE® AVEC DOUILLE / RIBE® SOCKETBIT / CHIAVI A BUSSOLA PUNTA RIBE® / PONTEIRA RIBE® COM CHAVE DE SAIXA / ГОЛОВКА ТОРЦЕВАЯ СО ВСТАВКОЙ С ПРОФИЛЕМ RIBE®

■ 1/2"

| COD.  |     | L (mm) |     |    |   |
|-------|-----|--------|-----|----|---|
| 65985 | M5  | 100    | 90  | 10 | ● |
| 65986 | M6  |        |     |    |   |
| 65987 | M7  |        |     |    |   |
| 65988 | M8  |        | 95  |    |   |
| 65989 | M9  |        | 100 |    |   |
| 65990 | M10 |        | 110 |    |   |
| 65991 | M12 |        | 150 |    |   |
| 65992 | M14 |        | 180 |    |   |
| 65993 | M16 |        | 200 |    |   |



■ LLAVES RIBE® / RIBE® WRENCHES / CLÉS RIBES® / RIBE® SCHLÜSSEL / CHIAVE RIBE® / CHAVES RIBE® / КЛЮЧИ RIBE®






| COD.  |     | L (mm) | A (mm) |     |    |   |
|-------|-----|--------|--------|-----|----|---|
| 65975 | M4  | 145    | 22     | 16  | 10 | ● |
| 65976 | M5  | 150    | 24     | 26  |    |   |
| 65977 | M6  | 160    | 30     | 42  |    |   |
| 65978 | M7  | 175    | 32     | 80  |    |   |
| 65979 | M8  | 185    | 40     | 90  |    |   |
| 65980 | M10 | 220    | 55     | 150 |    |   |



- Para más información de dimensiones y características del producto, consultar en el capítulo correspondiente del catálogo general o en [www.egamaster.com](http://www.egamaster.com). / For more details about features and dimensions of the products, check the corresponding chapter of the General Catalogue or [www.egamaster.com](http://www.egamaster.com). / Pour plus d'informations sur les dimensions et les caractéristiques du produit, consulter le chapitre correspondant de notre catalogue général ou sur [www.egamaster.com](http://www.egamaster.com).
- \*Para tornillos RIBE® (Marca registrada por Richard Bergner Verbindungstechnik GmbH & Co. KG) / \*For screws RIBE® (Richard Bergner Verbindungstechnik GmbH & Co. KG registered trademark) / \*Pour vis RIBE® (Marque enregistrée par Richard Bergner Verbindungstechnik GmbH & Co. KG)

EG/AUTO

| COD.                                           | PCS. |  |  |  |
|------------------------------------------------|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 69987                                          | 7    | 600                                                                               | 6                                                                                 | •                                                                                  |
| <b>Composición / Composition / Composition</b> |      |                                                                                   |                                                                                   |                                                                                    |
| 65975, 65976, 65977, 65978, 65979, 65980       |      |                                                                                   | M4, M5, M6, M7, M8, M9, M10                                                       |                                                                                    |



**PISTONES Y SEGMENTOS / PISTONS AND PISTON RINGS / PISTONS ET SEGMENTS / KOLBEN UND KOLBENRINGE / PISTONI E SEGMENTI / PISTONS E SEGMENTOS / ПОРШНИ И ПОРШНЕВЫЕ КОЛЬЦА**

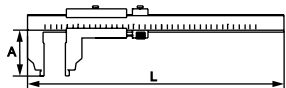
**ABRAZADERA PARA PISTONES / PISTON RING COMPRESSOR / COLLIER POUR SEGMENTS DE PISTONS / KOLBENRING-SPANNBAND / MORSETTO PER INSERIMENTO PISTONI / CINTA PARA SEGMENTOS / ПРИСПОСОБЛЕНИЕ ДЛЯ СЖАТИЯ ПОРШНЕВЫХ КОЛЕЦ**





| COD.  | CAP. (mm) |  |  |
|-------|-----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 51222 | Ø 55-110  | 50                                                                                | •                                                                                 |
| 51223 | Ø 100-160 | 80                                                                                | •                                                                                 |



**INSPECCIÓN / INSPECTION / CONTRÔLE / INSPEKTION / ISPEZIONI / INSPECÇÃO / ПРОВЕРКА**

**CALIBRE PIE DE REY CON BOCAS LARGAS / LONG TIP VERNIER CALIPER / PIED À COULISSE GRANDES OUVERTURES / TIEFENMESSCHIEBER / CALIBRI A CORSOIO A BOCCA LARGA / PAQUIMETRO COM PONTAS COMPRIDAS / ШАНГЕНЦИРКУЛЬ С ДЛИННОЙ ШКАЛОЙ**





| COD.  |  |  |  |  | A (mm) | L (mm) |  |  |
|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 65483 | 200                                                                                 | 0,02                                                                                | 8                                                                                   | 0,001                                                                               | 65     | 350    | 920                                                                                 | 1                                                                                     |

INOX



**FRENOS / BRAKES / FREINS / BREMSEN / FRENI / TRAVÕES / ТОРМОЗА**

**CEPILLO SOLDADURA CON MANGO DE PLÁSTICO / PLASTIC HANDLE SOLDERING BRUSH / BROSE DE SOUDURE AVEC MANCHE PLASTIQUE / LÖTBRÜSTE MIT KUNSTSTOFF GRIFF / SPAZZOLE PER SALDATORI CON MANICO IN PLASTICA / ESCOVA SOLDADURA COM CABO PLÁSTICO / ЩЕТКА СВАРЩИКА С ПЛАСТИКОВОЙ РУЧКОЙ**





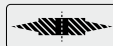

| COD.  | N.º filas / Rows / Rangées | MAT.                                                  | L (mm) |  |  |
|-------|----------------------------|-------------------------------------------------------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 61579 | 4                          | Acero inoxidable / Stainless steel / Acier inoxydable | 280    | 120                                                                                 | 3                                                                                     |



**CORTATUBOS / TUBE CUTTER / COUPE-TUBES / KUPFER ROHRABSCHNEIDER / TAGLIATUBI / CORTA TUBOS / ТРУБОРЕЗ**

**SERIE INOX / STAINLESS STEEL / INOX / EDELSTAHL / ACCIAIO INOX / AÇO INOXIDAVEL / НЕРЖАВЕЮЩАЯ СТАЛЬ**

MINI

| COD.  |  |  |  |  |  |  |
|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 63076 | Acero inoxidable / Stainless steel / Acier inoxydable                               | 3-22                                                                                | 135                                                                                 | 20                                                                                  | •                                                                                   | 63113                                                                                 |

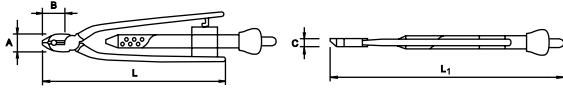


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Reforzado / Reinforced / Renforcé



■ ALICATE TRENZADOR DE ALAMBRE / WIRE TWIST PLIER / PINCE À FREINER / DRAHTWIRBELZANGE / PINZA TORCIFILO / ALICATE TORCEDOR DE ARAME / КЛЕЩИ ДЛЯ ТРОСОВ



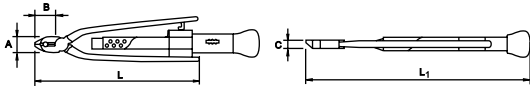
| COD.  | L (inch) | A (mm) | B (mm) | C (mm) | L1 (mm) |     |   |   |
|-------|----------|--------|--------|--------|---------|-----|---|---|
| 62624 | 6        | 215    | 17     | 23     | 210     | 250 | 6 | • |
| 62625 | 9        | 270    | 21     | 29     | 270     | 380 | 6 | • |



ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

Resistencia a la tracción / Tensile strength-break / Résistance à la traction  
 75 kg/mm<sup>2</sup>: hasta 1,5 mm - 120 Kg/mm<sup>2</sup>: hasta 1 mm - 200 Kg/mm<sup>2</sup>: hasta 0,5 mm alambre / 75 kg/mm<sup>2</sup>: up to 1.5 mm - 120 Kg/mm<sup>2</sup>: up to 1 mm - 200 Kg/mm<sup>2</sup>: up to 0,5 mm wire / 75 kg/mm<sup>2</sup>: jusqu'à 1.5 mm - 120 Kg/mm<sup>2</sup>: jusqu'à 0,5 mm fil de fer

■ REVERSIBLE / REVERSIBLE / RÉVERSIBLE / UMSCHALTBAR / REVERSIBILE / REVERSÍVEL / РЕВЕРСИВНЫЙ



| COD.  | L (inch) | L1 (mm) | A (mm) | B (mm) | C (mm) |     |   |   |
|-------|----------|---------|--------|--------|--------|-----|---|---|
| 62627 | 6"       | 235     | 17     | 23     | 10     | 330 | 6 | • |
| 62628 | 9"       | 285     | 21     | 29     | 12     | 450 | 6 | • |

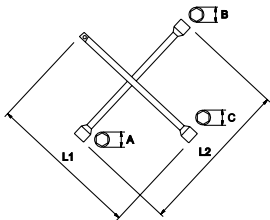


ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

Resistencia a la tracción / Tensile strength-break / Résistance à la traction  
 75 kg/mm<sup>2</sup>: hasta 1,5 mm - 120 Kg/mm<sup>2</sup>: hasta 1 mm - 200 Kg/mm<sup>2</sup>: hasta 0,5 mm alambre / 75 kg/mm<sup>2</sup>: up to 1.5 mm - 120 Kg/mm<sup>2</sup>: up to 1 mm - 200 Kg/mm<sup>2</sup>: up to 0,5 mm wire / 75 kg/mm<sup>2</sup>: jusqu'à 1.5 mm - 120 Kg/mm<sup>2</sup>: jusqu'à 0,5 mm fil de fer

■ RUEDAS / WHEELS / ROUES / REIFEN / RUOTE / RODAS / КОЛЕСА

■ EN CRUZ / CROSS RIM WRENCH / CLÉ EN CROIX / KREUZSCHLÜSSEL / CHIAVE A CROCE / CHAVE DE CRUZETA / КРЕСТОБРАЗНЫЙ БАЛОННЫЙ КЛЮЧ



| COD.  |          |     | L1 (mm) | L2 (mm) | A (mm) | B (mm) | C (mm) |      |   |
|-------|----------|-----|---------|---------|--------|--------|--------|------|---|
| 61475 | 17-19-22 | 1/2 | 350     | 350     | 28     | 26     | 31     | 1150 | 1 |

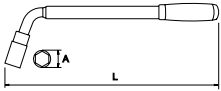
DIN 3119



• Para más información de dimensiones y características del producto, consultar en el capítulo correspondiente del catálogo general o en [www.egamaster.com](http://www.egamaster.com). / For more details about features and dimensions of the products, check the corresponding chapter of the General Catalogue or [www.egamaster.com](http://www.egamaster.com). / Pour plus d'informations sur les dimensions et les caractéristiques du produit, consulter le chapitre correspondant de notre catalogue général ou sur [www.egamaster.com](http://www.egamaster.com).



**EXTENSIBLE PARA RUEDAS / EXTENSIBLE WHEEL WRENCH / CLÉS À ROUES EXTENSIBLE / AUSZIEHBARER RADMUTTERNSCHLÜSSEL / CHIAVE ESTENSIBILE PER RUOTE / EXTENSÍVEL PARA RODAS / РАЗДВИЖНОЙ БАЛОННЫЙ КЛЮЧ**



| COD.         | AF (mm) | L (mm) | A (mm) | g   | Icon |
|--------------|---------|--------|--------|-----|------|
| <b>61476</b> | 17-19   | 550    | 28     | 800 | 3    |

DIN 3112



**ALICATE PARA CONTRAPESOS DE EQUILBRADOR DE RUEDAS / WHEEL WEIGHT PLIER / PINCE À PLOMB D'ÉQUILIBRAGE DE ROUE / REIFENDIENSTZANGE / PINZE PER BILANCIATURA EQUILIBRATURA RUOTE / ALICATE PARA CONTRAPESOS DE EQUILIBRAGEM DE RODAS / ПЛОСКОГУБЦЫ ДЛЯ КОЛЕС**

| COD.         | L (mm) | g   | Icon |
|--------------|--------|-----|------|
| <b>51224</b> | 240    | 420 | •    |

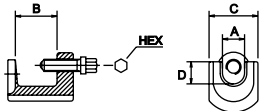


**PALANCA PARA DESMONTAR NEUMÁTICOS / TYRE-REMOVERS / DÉMONTE PNEU / REIFEN ENTFERNER / PALANCHINO PER RIMUOVRE PNEUMATICI / FERRO DE DESMONTA / ЛОПАТКА ДЛЯ ДЕМОНТАЖА ПОКРЫШКИ**

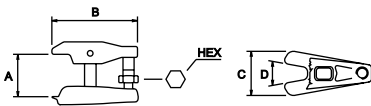
| COD.         | L (mm)   | g   | Icon |
|--------------|----------|-----|------|
| <b>51225</b> | 200 x 19 | 200 |      |
| <b>51226</b> | 300 x 25 | 500 |      |
| <b>51227</b> | 400 x 25 | 650 | •    |
| <b>51228</b> | 600 x 25 | 800 |      |



**EXTRACTOR DE RÓTULAS / BALL JOINT PULLER / EXTRACTEUR DE ROULEMENTS / KUGELGELENKABZIEHER / ESTRATTORE A SFERE / EXTRACTOR DE RÓTULAS / СЪЕМНИК**



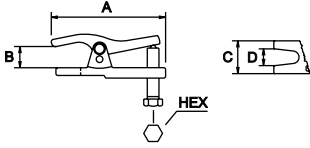
| COD.         | Hex (mm) | A (mm) | B (mm) | C (mm) | D (mm) | Kg  | Icon |
|--------------|----------|--------|--------|--------|--------|-----|------|
| <b>62831</b> | 18       | 19     | 55     | 44     | 21     | 0,8 | 1    |



| COD.         | Hex (mm) | A (mm) | B (mm) | C (mm) | D (mm) | Kg  | Icon |
|--------------|----------|--------|--------|--------|--------|-----|------|
| <b>62832</b> | 19       | 50     | 100    | 56     | 18-22  | 0,7 | 1    |



EGMAUTO



| COD.  | mm | A (mm) | B (mm) | C (mm) | D (mm) | Kg  |   |
|-------|----|--------|--------|--------|--------|-----|---|
| 62833 | 24 | 160    | 12-50  | 47     | 20     | 1,2 | 1 |
| 62834 | 17 |        | 60-80  |        |        |     |   |



HERRAMIENTA PARA SACAR GUARNICIONES / SEAL PULLER / OUTILS POUR GARNITURES / DICHTUNG ENTFERNER / UTENSILE PER RIMUOVRE LE GUARNIZIONI / EXTRACTOR DE GUARNIÇÕES / СЪЕМНИК САЛЬНИКА

| COD.  | L (mm) | g   |   |
|-------|--------|-----|---|
| 51229 | 325    | 330 | • |



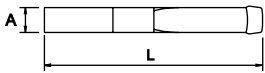
CARROCERÍA / BODYWORK / CARROSSERIE / KAROSSERIE / CARROZZERIA / CARROÇARIA / КУЗОВОСТРОЕНИЕ

RASQUETA PARA JUNTAS / GASKET SCRAPER / GRATTOIR À JOINTS / DICHTUNGSSCHABER / RASCHIETTO PER GIUNTI / RASCADOR PARA JUNTAS / СКРЕБОК ДЛЯ УДАЛЕНИЯ ПРОКЛАДКОК

| COD.  | L (mm) | g   |   |   |
|-------|--------|-----|---|---|
| 67195 | 260    | 150 | 6 | • |



CINCEL CHAPISTA / EXTRA FLAT COLD CHISEL / BURIN DE CARROSSIER / SCHLITZMEISSEL / SCALPELLO A FREDDO PIATTO / ESCOPRO FINO / СВЕРХ ПЛОСКОЕ ЗУБИЛО



| COD.  | L (mm) | A (mm) | g   |   |   |
|-------|--------|--------|-----|---|---|
| 63472 | 204    | 27     | 240 | 6 | • |



BROCA ESCALONADA / STEP DRILL / MÈCHE ÉCHELONNÉE / SPIRALBOHRER / PUNTA SCANALATA / BROCA ESCALONADA / СТУПЕНЧАТОЕ СВЕРЛО

| COD.  | O.D. mm | g   |   |   |
|-------|---------|-----|---|---|
| 64617 | 4-12    | 25  | 1 | • |
| 64618 | 4-20    | 60  |   |   |
| 64619 | 4-30    | 180 |   |   |



BE SAFE... BE EFFICIENT



■ SET

■ 3 PCS.

| COD.         | PCS. |           |           |
|--------------|------|-----------|-----------|
| <b>64620</b> | 3    | 300       | 1         |
| PCS.         |      | COD. PCS. |           |
| 1            |      | 64617     | Ø 4-12 mm |
|              |      | 64618     | Ø 4-20 mm |
|              |      | 64619     | Ø 4-30 mm |



■ ILUMINACIÓN / LIGHTING / ÉCLAIRAGE / BELEUCHTUNG / ILLUMINAZIONE / ILUMINAÇÃO / ОСВЕЩЕНИЕ

■ LINTERNA PARA INSPECCIÓN / INSPECTION LAMP / BALADEUSE / INSPEKTIONSLEUCHE / TORCIA PER ISPEZIONE RICARICABILE / LANTERNA PARA INSPEÇÃO / ФОНАРИК ДЛЯ ОСМОТРА

| COD.         | LED | LUMENS | L (mm) |     |
|--------------|-----|--------|--------|-----|
| <b>58646</b> | COB | 420    | 190    | 290 |

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                         |                            |
|-----------------------------------------------------------------------------------------|----------------------------|
| Pilas / Batteries / Piles                                                               | 3.7V/4400mAh (Li-Ion)      |
| Estanqueidad / Waterproof / Étanchement                                                 | IPX 4                      |
| Gancho / Hook / Crochet                                                                 | ●                          |
| Imán / Magnet / Aimant                                                                  | ●                          |
| Carcasa / Housing / Carcasse                                                            | ABS                        |
| Luminosidad del led / Led brightness / Luminosité du led                                | 42.000 MCD                 |
| Tiempo de carga (h. aprox.) / Charging time (h. approx.) / Temps de charge (h. approx.) | 5                          |
| Vida del led (h) / Led lifetime (h) / La vie du led (h)                                 | 100.000                    |
| Autonomía (h. aprox.) / Autonomy (h. approx.) / Autonomie (h. approx.)                  | 3                          |
| Fuente de luz blanca / White light source / Source de lumière blanche                   | ●                          |
| Cargador / Charger / Chargeur                                                           | 100-240 V/ 50-60 Hz / 12 V |



■ FOCO LED / LED HAND LAMP / PROJECTEUR LED / LED-HANDLEUCHE / RIFLETTORE A LED / HOLOFOTE LED / СВЕТОДИОДНЫЙ ПРОЖЕКТОР

| COD.         | LED | LUMENS |     |
|--------------|-----|--------|-----|
| <b>58642</b> | COB | 1100   | 750 |

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                         |                                                                                                |
|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Tiempo de carga (h. aprox.) / Charging time (h. approx.) / Temps de charge (h. approx.) | 6                                                                                              |
| Posiciones de iluminación / Lighting positions / Positions d'illumination               | Baja potencia y alta potencia / Low power and high power / Puissance faible et haute puissance |
| Carcasa / Housing / Carcasse                                                            | ABS y Aluminio / ABS and Aluminum / ABS et Aluminium                                           |
| Fuente de luz blanca / White light source / Source de lumière blanche                   | ●                                                                                              |
| Vida del led (h) / Led lifetime (h) / La vie du led (h)                                 | 100.000                                                                                        |
| Autonomía (h. aprox.) / Autonomy (h. approx.) / Autonomie (h. approx.)                  | 3                                                                                              |
| Cargador / Charger / Chargeur                                                           | 100-240 V/ 50-60 Hz / 12 V                                                                     |





■ LUBRICACIÓN / LUBRICATION / LUBRIFICATION / SCHMIERUNG / LUBRIFICAZIONE / LUBRIFICAÇÃO / СМАЗКА

■ BOMBA DE ENGRASE A PALANCA / LEVER-OPERATED GREASE GUN / POMPE GRAISSEUR À LEVIER / HEBELBETÄTIGTE FETTPISTOLE / POMPA PER INGRASSAGGIO A LEVA / BOMBA DE LUBRIFICAÇÃO A ALAVANCA / ПЛУНЖЕРНЫЙ ШПРИЦ ДЛЯ СМАЗКИ

| COD.  | CAP.  | L (mm) | Kg  |
|-------|-------|--------|-----|
| 57098 | 400 g | 350    | 1,3 |



ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                 |                    |
|---------------------------------------------------------------------------------|--------------------|
| Capacidad / Capacity / Capacité                                                 | 400 g              |
| Uso con cartucho / Use with cartridge / Utilisation avec cartouche              | ●                  |
| Presión máx. de entrega / Max. delivery pressure / Pression de refoulement max. | 410 bar / 6000 PSI |
| Grasa a granel / Bulk grease / Graisse en vrac                                  | ●                  |

■ PISTOLA DE ENGRASE NEUMÁTICA / PNEUMATIC GREASE GUN / PISTOLET GRAISSEUR PNEUMATIQUE / PNEUMATISCHE FETTPISTOLE / PISTOLA LUBRIFICAZIONE PNEUMATICA / PISTOLA DE LUBRIFICAÇÃO PNEUMÁTICA / ПНЕВМАТИЧЕСКИЙ ШПРИЦ ДЛЯ СМАЗКИ

| COD.  | CAP.          | L (mm) | Kg  |
|-------|---------------|--------|-----|
| 57099 | 400 g / 450 g | 370    | 1,4 |



12M

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                 |                           |
|---------------------------------------------------------------------------------|---------------------------|
| Uso con cartucho / Use with cartridge / Utilisation avec cartouche              | ●                         |
| Vibración / Vibration / Vibration                                               | <2,5 m/s <sup>2</sup>     |
| Nivel de presión sonora / Noise pressure level / Niveau de pression sonore      | 74 dBA                    |
| Nivel de potencia sonora / Noise power level / Niveau de puissance sonore       | 85 dBA                    |
| Consumo medio de aire / Air consumption / Consommation d'air                    | 28 LPM / 1 CFM            |
| Longitud de la boquilla / Nose length / Longueur du tuyau                       | 150 mm                    |
| Presión máx. de entrega / Max. delivery pressure / Pression de refoulement max. | 410 bar / 6000 PSI        |
| Presión de trabajo / Working pressure / Pression de travail                     | 4,1-10,3 bar / 60-150 PSI |
| Entrada de aire / Air inlet / Entrée d'air                                      | 1/4"                      |
| Grasa a granel / Bulk grease / Graisse en vrac                                  | ●                         |

EGMA Master  
 ART IN INNOVATION

• Para más información de dimensiones y características del producto, consultar en el capítulo correspondiente del catálogo general o en [www.egmaster.com](http://www.egmaster.com). / For more details about features and dimensions of the products, check the corresponding chapter of the General Catalogue or [www.egmaster.com](http://www.egmaster.com). / Pour plus d'informations sur les dimensions et les caractéristiques du produit, consulter le chapitre correspondant de notre catalogue général ou sur [www.egmaster.com](http://www.egmaster.com).

12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

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**JUEGOS MECÁNICA / SETS FOR MECHANICS / SETS DE MÉCANICIENS / WERKZEUG SETS FÜR MECHANIKER / KIT MECCANICA / JOGO DE MECÂNICA / МЕХАНИЧЕСКИЕ НАБОРЫ**

419 PCS.

MM



| COD.  | PCS. |       | Medidas en / Sizes in / Mesures en |     |
|-------|------|-------|------------------------------------|-----|
| 68976 | -    | -     | -                                  | 125 |
| 68977 | 419  | 50950 | mm                                 | 220 |
| 55773 | -    | 51074 | ●                                  | 550 |





| PCS. | Composición / Composition / Composition                                                                                                                                                                                        | Descripción / Description / Description                               |                  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------|
| 20   | 62214, 62215, 62216, 62217, 62218, 62219, 62220, 62221, 62222, 62223, 62224, 62225, 62226, 62227, 62228, 62229, 62180, 62181, 62182, 62183                                                                                     | Alicates Circlips / Circlips pliers                                   |                  |
| 9    | 66400, 66401, 66403, 66405, 66407, 66408, 66409, 66410, 66525                                                                                                                                                                  | Destornilladores mecánicos / Slotted screwdrivers                     |                  |
| 7    | 76620, 76621, 76622, 76624, 76625, 76626, 76627                                                                                                                                                                                | Destornilladores electricistas / Electrician screwdrivers             |                  |
| 6    | 66438, 66439, 66440, 66441, 66442, 66526                                                                                                                                                                                       | Destornilladores Phillips® / Phillips® screwdrivers                   |                  |
|      | 66456, 66457, 66458, 66459, 66460, 66527                                                                                                                                                                                       | Destornilladores Pozidriv® / Pozidriv® screwdrivers                   |                  |
| 13   | 66474, 66475, 66476, 66477, 66478, 66479, 66480, 66481, 66482, 66483, 66484, 66485, 66486                                                                                                                                      | Destornilladores Torx® / Torx® screwdrivers                           |                  |
| 7    | 66571, 66572, 66573, 66574, 66575, 66576, 66577                                                                                                                                                                                | Destornilladores T-Mastertork / T-Mastertork screwdrivers             | -                |
| 16   | 69870                                                                                                                                                                                                                          | Set reversible Mastergear / Set rev. Mastergear                       |                  |
| 13   | 61824, 61825, 61826, 61827, 61828, 61829, 61830, 61831, 61832, 61833, 61834, 61835, 61836                                                                                                                                      | Llaves de tubo doble boca / Socket double ended wrenches              |                  |
| 18   | 61840, 61841, 61842, 61843, 61844, 61845, 61846, 61847, 61848, 61849, 61850, 61851, 61852, 61853, 61854, 61855, 61856, 61858                                                                                                   | Llaves articuladas en T / T-handle wrenches with universal joint      |                  |
| 32   | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736, 61737, 61738, 61739, 61740, 61741, 61742, 61743, 61744, 61745, 61746, 61747, 61748, 61749, 61750, 60951, 60952, 60953, 60954, 60955, 60956 | Llaves combinadas / Combination wrenches                              |                  |
| 14   | 61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708, 61709, 61710, 61711, 61712, 61713                                                                                                                                      | Llaves fijas / Open-end wrenches                                      | mm               |
| 16   | 61775, 61776, 61777, 61778, 61779, 61780, 61781, 61782, 61783, 61784, 61785, 61786, 61787, 61788, 61789, 61790                                                                                                                 | Llaves acodadas / Double offset ring wrenches                         |                  |
| 25   | 61960                                                                                                                                                                                                                          | Juego / Set                                                           |                  |
| 26   | 61870, 61871, 61872, 61873, 61874, 61875, 61876, 61877, 61878, 61879, 61880, 61881, 61882, 61883, 61884, 61885, 61886, 61887, 61888, 61889, 61890, 61891, 61892, 61893, 61894, 61895                                           | Llaves de pipa / Angled sockets                                       | 1/2", mm, 26 pcs |
| 23   | 65302, 65303, 65304, 65305, 65306, 65307, 65308, 65309, 65310, 65311, 65312, 65313, 65314, 61501, 61502, 61503, 61504, 61505, 61506, 61507, 61508, 61509, 61510                                                                | Llaves hexagonales / Hexagonal keys                                   | mm               |
| 7    | 63401, 63402, 63403, 63404, 63405, 63406, 63407                                                                                                                                                                                | Botadores octogonales / Octagonal punches                             |                  |
| 6    | 63435, 63436, 63437, 63438, 63439, 63440                                                                                                                                                                                       | Granetes hexagonales / Hexagonal center punches                       |                  |
| 3    | 63178, 63179, 63180                                                                                                                                                                                                            | Cortafíos / Chisel                                                    |                  |
| 13   | 62331, 62332, 62333, 62337, 62338, 62339, 62340, 62341, 62342, 62343, 62344, 62345, 62349                                                                                                                                      | Alicates / Pliers                                                     | -                |
| 3    | 62133, 62135, 62134                                                                                                                                                                                                            | Tenazas de canal / Box joint pincers                                  |                  |
| 2    | 61112, 61114                                                                                                                                                                                                                   | Llaves ajustables / Adjustable wrenches                               |                  |
| 5    | 62586, 62587, 62588, 62589, 62590                                                                                                                                                                                              | Extractores / Gear pullers                                            |                  |
| 1    | 63748                                                                                                                                                                                                                          | Arco de sierra / Hack Saw                                             |                  |
| 29   | 61958                                                                                                                                                                                                                          | Juego vasos / Socket set                                              | 1/4", mm         |
| 1    | 62963                                                                                                                                                                                                                          | Llave dinamométrica / Torque wrench                                   | 1/2" 40-200 nm   |
| 7    | 69619, 69622, 69614, 69750, 69742, 69729, 69521                                                                                                                                                                                | Martillos / Hammers                                                   |                  |
| 33   | 66942                                                                                                                                                                                                                          | Juego puntas / Bits set                                               | -                |
| 1    | 61016                                                                                                                                                                                                                          | Llave HD / HD Pipe wrench                                             | 12"              |
| 3    | 62177, 62178, 62172                                                                                                                                                                                                            | Tenazas Grip / Grip pincers                                           |                  |
| 6    | 63498, 63534, 63570, 63606, 63642, 63678                                                                                                                                                                                       | Limas / Files                                                         |                  |
|      | 62233                                                                                                                                                                                                                          | Tijera de chapa / Tin snip                                            | -                |
|      | 69534                                                                                                                                                                                                                          | Tijera electricista / Electrician's scissors                          |                  |
| 1    | 65479                                                                                                                                                                                                                          | Calibre / Caliper                                                     |                  |
|      | 65155                                                                                                                                                                                                                          | Nivel trapezoidal profesional / Professional bridge type spirit level | 400 mm           |
|      | 66731                                                                                                                                                                                                                          | Destornillador portapuntas magnético / Screwdriver magnetic bitholder | -                |
| 10   | 60693                                                                                                                                                                                                                          | Juego de vasos impacto / Impact socket sets                           | mm               |
| 4    | 69529                                                                                                                                                                                                                          | Set 4 pinzas / Set 4 tweezers                                         |                  |
| 1    | 62493                                                                                                                                                                                                                          | Alicate de terminales / Crimping pliers                               |                  |
| 11   | 65089, 65090, 65091, 65092, 65093, 65095, 65096, 65098, 65099, 65100, 65102                                                                                                                                                    | Llaves de carraca para racores / Ratcheting ring wrenches             | -                |
| 1    | 69504                                                                                                                                                                                                                          | Magnetizador-desmagnetizador / Magnetizer-demagnetizer                |                  |
|      | 65362                                                                                                                                                                                                                          | Flexómetro / Measuring tape                                           | 3 m, mm/inch     |
| 6    | 63714, 63715, 63716, 63717, 63718, 63719                                                                                                                                                                                       | Limas de aguja / Needle files                                         |                  |
|      | 65595                                                                                                                                                                                                                          | Recogedor telescópico / Telescopic joining pick up                    | -                |
|      | 65586                                                                                                                                                                                                                          | Espejo articulado / Joint telescopic mirror                           |                  |
|      | 65774                                                                                                                                                                                                                          | Regla / Ruler                                                         | 300 mm           |
|      | 63119                                                                                                                                                                                                                          | Cortatubos cobre / Cooper tube cutter                                 | 42 mm            |
| 1    | 63172                                                                                                                                                                                                                          | Cortatubos acero / Steel tube cutter                                  | 2"               |
|      | 63205                                                                                                                                                                                                                          | Cortatubos plástico Piraina / Piraina plastic pipe cutter             |                  |
|      | 69501                                                                                                                                                                                                                          | Cortador / Cutter                                                     |                  |
|      | 51259                                                                                                                                                                                                                          | Multímetro digital para automóviles / Automotive digital multimeter   | -                |
|      | 65388                                                                                                                                                                                                                          | Navaja / Penknife                                                     |                  |

# 15

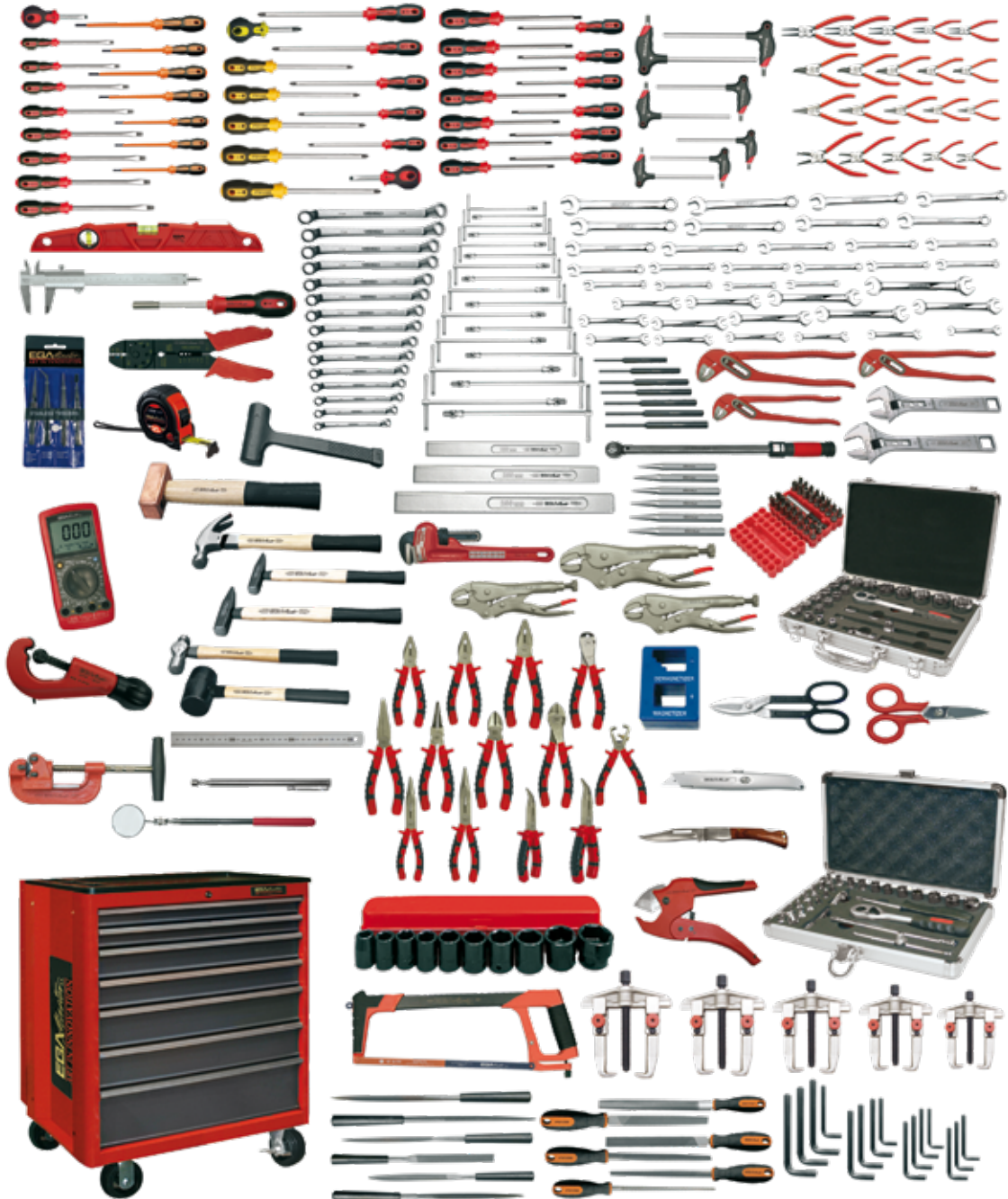
**HERRAMIENTAS PARA AUTOMOCIÓN**  
**AUTOMOTIVE TOOLS**  
**OUTILS POUR L'AUTOMOBILE**  
**AUTOMOBILWERKZEUGE**  
**UTENSILI PER L'AUTOMOTIVE**  
**FERRAMENTAS PARA AUTOMOÇÃO**  
**АВТОМОБИЛЬНЫЙ ИНСТРУМЕНТ**



## EG/AUTO

■ 337 PCS.

■ INCH



| COD.  | PCS. |              | Medidas en / Sizes in / Mesures en |     |
|-------|------|--------------|------------------------------------|-----|
| 68978 | -    | -            | -                                  | 85  |
| 68979 | 337  | 50950        | inch                               | 180 |
| 55774 | -    | 51117, 51039 | ●                                  | 340 |



| PCS. | Composición / Composition / Composition                                                                                                                         | Descripción / Description / Description                                                                                                              |                       |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 20   | 62214, 62215, 62216, 62217, 62218, 62219, 62220, 62221, 62222, 62223, 62224, 62225, 62226, 62227, 62228, 62229, 62180, 62181, 62182, 62183                      | Alicates Circlips / Circlips pliers                                                                                                                  |                       |
| 9    | 66400, 66401, 66403, 66405, 66407, 66408, 66409, 66410, 66525                                                                                                   | Destornilladores mecánicos / Slotted screwdrivers                                                                                                    |                       |
| 7    | 76620, 76621, 76622, 76624, 76625, 76626, 76627                                                                                                                 | Destornilladores electricistas / Electrician screwdrivers                                                                                            |                       |
| 5    | 66438, 66439, 66440, 66441, 66442, 66526<br>66456, 66457, 66458, 66459, 66460, 66527                                                                            | Destornilladores Phillips® / Phillips® screwdrivers<br>Destornilladores Pozidriv® / Pozidriv® screwdrivers                                           |                       |
| 13   | 66474, 66475, 66476, 66477, 66478, 66479, 66480, 66481, 66482, 66483, 66484, 66485, 66486                                                                       | Destornilladores Torx® / Torx® screwdrivers                                                                                                          |                       |
| 7    | 66571, 66572, 66573, 66574, 66575, 66576, 66577                                                                                                                 | Destornilladores T-Mastertork / T-Mastertork screwdrivers                                                                                            |                       |
| 18   | 61840, 61841, 61842, 61843, 61844, 61845, 61846, 61847, 61848, 61849, 61850, 61851, 61852, 61853, 61854, 61855, 61856, 61858                                    | Llaves articuladas en T / T-handle wrenches with universal joint                                                                                     |                       |
| 23   | 60340, 60341, 60342, 60343, 60344, 60345, 60346, 60347, 60348, 60349, 60350, 60351, 60352, 60353, 60354, 60355, 60356, 60357, 60358, 60957, 60958, 60959, 60960 | Llaves combinadas / Combination wrenches                                                                                                             |                       |
| 15   | 60300, 60301, 60302, 60303, 60304, 60305, 60306, 60307, 60308, 60309, 60310, 60311, 60312, 60313, 60314                                                         | Llaves fijas / Open-end wrenches                                                                                                                     | inch                  |
|      | 60380, 60381, 60382, 60383, 60384, 60385, 60386, 60387, 60388, 60389, 60390, 60391, 60392, 60393, 60394                                                         | Llaves acodadas / Double offset ring wrenches                                                                                                        |                       |
| 25   | 61963                                                                                                                                                           | Llaves de vaso, extensiones, carraca, mango corredizo en T, articulación universal / Socket wrenches, extensions, ratchet, T handle, universal joint | 1/2", exten. 5" - 10" |
| 15   | 65315, 65316, 65317, 65318, 65319, 65320, 65321, 65322, 65323, 65324, 65325, 65326, 65327, 65328, 65329                                                         | Llaves hexagonales / Hexagonal keys                                                                                                                  | inch                  |
| 7    | 63401, 63402, 63403, 63404, 63405, 63406, 63407                                                                                                                 | Botadores octogonales / Octogonal punches                                                                                                            |                       |
| 6    | 63435, 63436, 63437, 63438, 63439, 63440                                                                                                                        | Granetes hexagonales / Hexagonal center punches                                                                                                      |                       |
| 3    | 63178, 63179, 63180                                                                                                                                             | Cortafíos / Chisel                                                                                                                                   |                       |
| 13   | 62331, 62332, 62333, 62337, 62338, 62339, 62340, 62341, 62342, 62343, 62344, 62345, 62349                                                                       | Alicates / Pliers                                                                                                                                    |                       |
| 3    | 62133, 62135, 62134                                                                                                                                             | Tenazas de canal / Box joint pincers                                                                                                                 |                       |
| 2    | 61112, 61114                                                                                                                                                    | Llaves ajustables / Adjustable wrenches                                                                                                              |                       |
| 5    | 62586, 62587, 62588, 62589, 62590                                                                                                                               | Extractores / Gear pullers                                                                                                                           |                       |
| 1    | 63748                                                                                                                                                           | Arco de sierra / Hack Saw                                                                                                                            |                       |
| 29   | 61961                                                                                                                                                           | Juego vasos / Socket set                                                                                                                             | 1/4", inch            |
| 1    | 62963                                                                                                                                                           | Llave dinamoétrica reversible / Reversible torque wrench                                                                                             | 1/2", 40-200 nm       |
| 7    | 69619, 69622, 69614, 69750, 69742, 69729, 69521                                                                                                                 | Martillos / Hammers                                                                                                                                  |                       |
| 33   | 66942                                                                                                                                                           | Juego puntas / Bits set                                                                                                                              |                       |
| 1    | 61016                                                                                                                                                           | Llave HD / HD Pipe wrench                                                                                                                            | 12"                   |
| 3    | 62177, 62178, 62172                                                                                                                                             | Tenazas Grip / Grip pincers                                                                                                                          |                       |
| 6    | 63498, 63534, 63570, 63606, 63642, 63678                                                                                                                        | Limas / Files                                                                                                                                        |                       |
|      | 62233                                                                                                                                                           | Tijera de chapa / Tin snip                                                                                                                           |                       |
|      | 69534                                                                                                                                                           | Tijera electricista / Electrician's scissors                                                                                                         |                       |
| 1    | 65479                                                                                                                                                           | Calibre / Caliper                                                                                                                                    |                       |
|      | 65155                                                                                                                                                           | Nivel trapezoidal profesional / Professional bridge type spirit level                                                                                | 400 mm                |
|      | 66731                                                                                                                                                           | Destornillador portapuntas magnético / Screwdriver magnetic bitholder                                                                                |                       |
| 11   | 61267                                                                                                                                                           | Juego de vasos impacto / Impact socket sets                                                                                                          | inch                  |
| 4    | 69529                                                                                                                                                           | Set 4 pinzas / Set 4 tweezers                                                                                                                        |                       |
|      | 62493                                                                                                                                                           | Alicate de terminales / Crimping pliers                                                                                                              |                       |
| 1    | 69504                                                                                                                                                           | Magnetizador-desmagnetizador / Magnetizer-demagnetizer                                                                                               |                       |
|      | 65362                                                                                                                                                           | Flexómetros / Measuring tape                                                                                                                         | 3m/10'                |
| 6    | 63714, 63715, 63716, 63717, 63718, 63719                                                                                                                        | Limas de aguja / Needle files                                                                                                                        |                       |
|      | 65595                                                                                                                                                           | Recogedor telescópico / Telescopic joining pick up                                                                                                   |                       |
|      | 65586                                                                                                                                                           | Espejo articulado / Joint telescopic mirror                                                                                                          |                       |
|      | 65774                                                                                                                                                           | Regla / Ruler                                                                                                                                        | 300 mm                |
|      | 63119                                                                                                                                                           | Cortatubos cobre / Cooper tube cutter                                                                                                                | 42 mm                 |
| 1    | 63172                                                                                                                                                           | Cortatubos acero / Steel tube cutter                                                                                                                 | 2"                    |
|      | 63205                                                                                                                                                           | Cortatubos plástico Piraina / Piraina plastic pipe cutter                                                                                            |                       |
|      | 69501                                                                                                                                                           | Cortador / Cutter                                                                                                                                    |                       |
|      | 51259                                                                                                                                                           | Multímetro digital para automóviles / Automotive digital multimeter                                                                                  |                       |
|      | 65388                                                                                                                                                           | Navaja / Penknife                                                                                                                                    |                       |



■ 228 PCS.

■ MM



| COD.  | PCS. |       | Medidas en / Sizes in / Mesures en |     |
|-------|------|-------|------------------------------------|-----|
| 68980 |      | -     |                                    | 49  |
| 68981 | 228  | 51025 | mm                                 | 100 |
| 55775 |      | 57060 |                                    | 300 |

| PCS. | Composición / Composition / Composition                                                                                      | Descripción / Description / Description                                                                                   |          |
|------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------|
| 16   | 62214, 62215, 62216, 62217, 62218, 62219, 62220, 62221, 62222, 62223, 62224, 62225, 62226, 62227, 62228, 62229               | Alicates Circlips / Circlips pliers                                                                                       |          |
| 18   | 66400, 66401, 66403, 66407, 66408, 76621, 76622, 76624, 76625, 76626, 66439, 66440, 66441, 76629, 76630, 66457, 66458, 66459 | Destornilladores mecánicos, electricistas, Phillips®, Pozidriv® / Slotted, electrician, Phillips®, Pozidriv® screwdrivers |          |
| 13   | 66474, 66475, 66476, 66477, 66478, 66479, 66480, 66481, 66482, 66483, 66484, 66485, 66486                                    | Destornilladores Torx® / Torx® screwdrivers                                                                               | -        |
| 7    | 66571, 66572, 66573, 66574, 66575, 66576, 66577                                                                              | Destornilladores T-Mastertork / T-Mastertork screwdrivers                                                                 |          |
| 13   | 61824, 61825, 61826, 61827, 61828, 61829, 61830, 61831, 61832, 61833, 61834, 61835, 61836                                    | Llaves de tubo doble boca / Socket double ended wrenches                                                                  |          |
| 12   | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736                                           | Llaves combinadas / Combination wrenches                                                                                  | mm       |
| 8    | 61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708                                                                       | Llaves fijas / Open-end wrenches                                                                                          |          |
|      | 61775, 61776, 61777, 61778, 61779, 61780, 61781, 61782                                                                       | Llaves acodadas / Double offset ring wrenches                                                                             | -        |
| 17   | 61796                                                                                                                        | Juego llaves vaso / Socket wrench set                                                                                     | 1/2", mm |
| 10   | 61503, 61504, 61505, 61506, 61508, 61509, 61510, 65307, 65308, 65310                                                         | Llaves hexagonales / Hexagonal keys                                                                                       | mm       |
| 7    | 63401, 63402, 63403, 63404, 63405, 63406, 63407                                                                              | Botadores octogonales / Octagonal punches                                                                                 |          |
| 6    | 63435, 63436, 63437, 63438, 63439, 63440                                                                                     | Granetes hexagonales / Hexagonal center punches                                                                           |          |
| 3    | 63178, 63179, 63180                                                                                                          | Cortafíos / Chisel                                                                                                        | -        |
| 6    | 62332, 62340, 62342, 62343, 62344, 62349                                                                                     | Alicates / Pliers                                                                                                         |          |
| 1    | 62135                                                                                                                        | Tenazas de canal / Box joint pliers                                                                                       |          |



| PCS. | Composición / Composition / Composition         | Descripción / Description / Description                               |                 |
|------|-------------------------------------------------|-----------------------------------------------------------------------|-----------------|
| 1    | 61112                                           | Llave ajustable / Adjustable wrench                                   |                 |
| 2    | 62587, 62590                                    | Extractores / Gear pullers                                            | -               |
|      | 63748                                           | Arco de sierra / Hack Saw                                             |                 |
| 1    | 62963                                           | Llave dinamoétrica reversible / Reversible torque wrench              | 1/2", 40-200 nm |
| 7    | 69619, 69622, 69614, 69750, 69742, 69729, 69521 | Martillos / Hammers                                                   |                 |
| 33   | 66942                                           | Juego puntas / Bits set                                               | -               |
| 1    | 61016                                           | Llave HD / HD Pipe wrench                                             | 12"             |
| 3    | 62177, 62178, 62172                             | Tenazas Grip / Grip pincers                                           |                 |
| 6    | 63498, 63534, 63570, 63606, 63642, 63678        | Limas / Files                                                         |                 |
|      | 62233                                           | Tijera de chapa / Tin snip                                            | -               |
|      | 69534                                           | Tijera electricista / Electrician's scissors                          |                 |
| 1    | 65479                                           | Calibre / Caliper                                                     |                 |
|      | 65155                                           | Nivel trapezoidal profesional / Professional bridge type spirit level | 400 mm          |
|      | 66731                                           | Destornillador portapuntas magnético / Screwdriver magnetic bitholder | -               |
| 10   | 60693                                           | Juego de vasos impacto / Impact socket sets                           | mm              |
| 4    | 69529                                           | Set 4 pinzas / Set 4 tweezers                                         |                 |
|      | 62493                                           | Alicate de terminales / Crimping pliers                               | -               |
|      | 69504                                           | Magnetizador-desmagnetizador / Magnetizer-demagnetizer                |                 |
|      | 65362                                           | Flexómetros / Measuring tape                                          | 3m/10'          |
|      | 65595                                           | Recogedor telescópico / Telescopic joing pick up                      |                 |
| 1    | 65586                                           | Espejo articulado / Joint telescopic mirror                           | -               |
|      | 65774                                           | Regla / Ruler                                                         | 300 mm          |
|      | 63205                                           | Cortatubos plástico Piraina / Piraina plastic pipe cutter             |                 |
|      | 69501                                           | Cortador / Cutter                                                     | -               |
|      | 65388                                           | Navaja / Penknife                                                     |                 |

**EGMA** Master  
 ART IN INNOVATION



■ 216 PCS.

■ INCH



| COD.  | PCS. |       | Medidas en / Sizes in / Mesures en |   |     |
|-------|------|-------|------------------------------------|---|-----|
| 68982 |      | -     |                                    |   | 47  |
| 68983 | 216  | 51025 | inch                               | - | 95  |
| 55776 |      | 50977 |                                    | ● | 300 |

| PCS. | Composición / Composition / Composition                                                                                      | Descripción / Description / Description                                                                                   |            |
|------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------|
| 16   | 62214, 62215, 62216, 62217, 62218, 62219, 62220, 62221, 62222, 62223, 62224, 62225, 62226, 62227, 62228, 62229               | Alicates Circlips / Circlips pliers                                                                                       |            |
| 18   | 66400, 66401, 66403, 66407, 66408, 76621, 76622, 76624, 76625, 76626, 66439, 66440, 66441, 76629, 76630, 66457, 66458, 66459 | Destornilladores mecánicos, electricistas, Phillips®, Pozidriv® / Slotted, electrician, Phillips®, Pozidriv® screwdrivers |            |
| 13   | 66474, 66475, 66476, 66477, 66478, 66479, 66480, 66481, 66482, 66483, 66484, 66485, 66486                                    | Destornilladores Torx® / Torx® screwdrivers                                                                               |            |
| 7    | 66571, 66572, 66573, 66574, 66575, 66576, 66577                                                                              | Destornilladores T-Mastertork / T-Mastertork screwdrivers                                                                 |            |
| 12   | 60341, 60342, 60343, 60344, 60345, 60347, 60348, 60349, 60351, 60352, 60353, 60354                                           | Llaves combinadas / Combination wrenches                                                                                  |            |
| 8    | 60302, 60303, 60304, 60306, 60309, 60310, 60311, 60312<br>60382, 60383, 60384, 60385, 60386, 60389, 60390, 60391             | Llaves fijas / Open-end wrenches<br>Llaves acodadas / Double offset ring wrenches                                         |            |
| 17   | 61798                                                                                                                        | Juego llaves vaso / Socket wrench set                                                                                     | 1/2", inch |
| 10   | 65318, 65319, 65320, 65321, 65322, 65323, 65324, 65325, 65326, 65327                                                         | Llaves hexagonales / Hexagonal keys                                                                                       | inch       |
| 7    | 63401, 63402, 63403, 63404, 63405, 63406, 63407                                                                              | Botadores octogonales / Octagonal punches                                                                                 |            |
| 6    | 63435, 63436, 63437, 63438, 63439, 63440                                                                                     | Granetes hexagonales / Hexagonal center punches                                                                           |            |
| 3    | 63178, 63179, 63180                                                                                                          | Cortafíos / Chisel                                                                                                        |            |
| 6    | 62332, 62340, 62342, 62343, 62344, 62349                                                                                     | Alicates / Pliers                                                                                                         |            |
| 1    | 62135                                                                                                                        | Tenazas de canal / Box joint pincers                                                                                      |            |
|      | 61112                                                                                                                        | Llave ajustable / Adjustable wrench                                                                                       |            |
| 2    | 62587, 62590                                                                                                                 | Extractores / Gear pullers                                                                                                |            |



| PCS. | Composición / Composition / Composition         | Descripción / Description / Description                               |                 |
|------|-------------------------------------------------|-----------------------------------------------------------------------|-----------------|
| 1    | 63748                                           | Arco de sierra / Hack Saw                                             | -               |
|      | 62963                                           | Llave dinamométrica / Torque wrench                                   | 1/2", 40-200 nm |
| 7    | 69619, 69622, 69614, 69750, 69742, 69729, 69521 | Martillos / Hammers                                                   | -               |
| 33   | 66942                                           | Juego puntas / Bits set                                               | -               |
| 1    | 61016                                           | Llave HD / HD Pipe wrench                                             | 12"             |
| 3    | 62177, 62178, 62172                             | Tenazas Grip / Grip pincers                                           |                 |
| 6    | 63498, 63534, 63570, 63606, 63642, 63678        | Limas / Files                                                         |                 |
|      | 62233                                           | Tijera de chapa / Tin snip                                            | -               |
|      | 69534                                           | Tijera electricista / Electrician's scissors                          |                 |
| 1    | 65479                                           | Calibre / Caliper                                                     |                 |
|      | 65155                                           | Nivel trapezoidal profesional / Professional bridge type spirit level | 400 mm          |
|      | 66731                                           | Destornillador portapuntas magnético / Screwdriver magnetic bitholder |                 |
| 11   | 61267                                           | Juego de vasos impacto / Impact socket sets                           |                 |
| 4    | 69529                                           | Set 4 pinzas / Set 4 tweezers                                         | -               |
|      | 62493                                           | Alicate de terminales / Crimping pliers                               |                 |
|      | 69504                                           | Magnetizador-desmagnetizador / Magnetizer-demagnetizer                |                 |
|      | 65362                                           | Flexómetros / Measuring tape                                          | 3m/10'          |
|      | 65595                                           | Recogedor telescópico / Telescopic joing pick up                      |                 |
| 1    | 65586                                           | Espejo articulado / Joint telescopic mirror                           | -               |
|      | 65774                                           | Regla / Ruler                                                         | 300 mm          |
|      | 63205                                           | Cortatubos plástico Piraina / Piraina plastic pipe cutter             |                 |
|      | 69501                                           | Cortador / Cutter                                                     | -               |
|      | 65388                                           | Navaja / Penknife                                                     |                 |

**EGMA** Master  
 ART IN INNOVATION



■ 109 PCS.

■ MM



| COD.  | PCS. |       | Medidas en / Sizes in / Mesures en |     |
|-------|------|-------|------------------------------------|-----|
| 68984 | -    | -     | -                                  | 27  |
| 68985 | 109  | 51674 | mm                                 | 65  |
| 55777 | -    | 51025 | ●                                  | 120 |

| PCS. | Composición / Composition / Composition                                            | Descripción / Description / Description                                                       |                 |
|------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------|
| 8    | 62214, 62215, 62216, 62217, 62222, 62223, 62224, 62225                             | Alicates Circlips / Circlips pliers                                                           |                 |
| 11   | 66400, 66401, 66403, 66407, 66408, 66439, 66440, 66441, 66457, 66458, 66459        | Destornilladores mecánicos, Phillips®, Pozidriv® / Slotted, Phillips®, Pozidriv® screwdrivers | -               |
| 10   | 66475, 66476, 66477, 66478, 66479, 66480, 66481, 66482, 66483, 66484               | Destornilladores Torx® / Torx® screwdrivers                                                   |                 |
| 12   | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736 | Llaves combinadas / Combination wrenches                                                      | mm              |
| 8    | 61701, 61702, 61703, 61704, 61705, 61706, 61707, 61708                             | Llaves fijas / Open-end wrenches                                                              |                 |
|      | 61775, 61776, 61777, 61778, 61779, 61780, 61781, 61782                             | Llaves acodadas / Double offset ring wrenches                                                 | -               |
| 17   | 61796                                                                              | Juego llaves vaso / Socket wrench set                                                         | 1/2", mm        |
| 10   | 61503, 61504, 61505, 61506, 61508, 61509, 61510, 65307, 65308, 65310               | Llaves hexagonales / Hexagonal keys                                                           | mm              |
| 3    | 63402, 63404, 63406                                                                | Botadores / Punches                                                                           |                 |
| 1    | 63179                                                                              | Cortafrios / Chisel                                                                           |                 |
| 4    | 62332, 62343, 62344, 62349                                                         | Alicates / Pliers                                                                             |                 |
| 1    | 62135                                                                              | Tenazas de canal / Box joint pincers                                                          |                 |
|      | 61112                                                                              | Llave ajustable / Adjustable wrench                                                           |                 |
| 2    | 62587, 62590                                                                       | Extractores / Gear pullers                                                                    |                 |
| 1    | 62963                                                                              | Llave dinamométrica reversible / Reversible torque wrench                                     | 1/2", 40-200 nm |
| 4    | 69619, 69622, 69614, 69750                                                         | Martillos / Hammers                                                                           |                 |
| 1    | 62178                                                                              | Tenazas Grip / Grip pincers                                                                   |                 |
| 3    | 63498, 63570, 63678                                                                | Limas / Files                                                                                 |                 |
|      | 62233                                                                              | Tijera de chapa / Tin snip                                                                    |                 |
| 1    | 65362                                                                              | Flexómetros / Measuring tape                                                                  | 3 m/10'         |
|      | 65595                                                                              | Recogedor telescópico / Telescopic joing pick up                                              |                 |
|      | 69501                                                                              | Cortador / Cutter                                                                             |                 |





■ INCH



| COD.  | PCS. |       | Medidas en / Sizes in / Mesures en |   | Kg  |
|-------|------|-------|------------------------------------|---|-----|
| 68986 |      | -     |                                    |   | 27  |
| 68987 | 109  | 51674 | inch                               | - | 65  |
| 55778 |      | 51025 |                                    | ● | 120 |

| PCS. | Composición / Composition / Composition                                            | Descripción / Description / Description                                                       |                 |
|------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------|
| 8    | 62214, 62215, 62216, 62217, 62222, 62223, 62224, 62225                             | Alicates Circlips / Circlips pliers                                                           |                 |
| 11   | 66400, 66401, 66403, 66407, 66408, 66439, 66440, 66441, 66457, 66458, 66459        | Destornilladores mecánicos, Phillips®, Pozidriv® / Slotted, Phillips®, Pozidriv® screwdrivers | -               |
| 10   | 66475, 66476, 66477, 66478, 66479, 66480, 66481, 66482, 66483, 66484               | Destornilladores Torx® / Torx® screwdrivers                                                   |                 |
| 12   | 60341, 60342, 60343, 60344, 60345, 60347, 60348, 60349, 60351, 60352, 60353, 60354 | Llaves combinadas / Combination wrenches                                                      |                 |
| 8    | 60302, 60303, 60304, 60306, 60309, 60310, 60311, 60312                             | Llaves fijas / Open-end wrenches                                                              | inch            |
|      | 60382, 60383, 60384, 60385, 60386, 60389, 60390, 60391                             | Llaves acodadas / Double offset ring wrenches                                                 |                 |
| 17   | 61798                                                                              | Juego llaves vaso / Socket wrench set                                                         | 1/2", inch      |
| 10   | 65318, 65319, 65320, 65321, 65322, 65323, 65324, 65325, 65326, 65327               | Llaves hexagonales / Hexagonal keys                                                           |                 |
| 3    | 63402, 63404, 63406                                                                | Botadores / Punches                                                                           |                 |
| 1    | 63179                                                                              | Cortafíos / Chisel                                                                            |                 |
| 4    | 62332, 62343, 62344, 62349                                                         | Alicates / Pliers                                                                             | -               |
| 1    | 62135                                                                              | Tenazas de canal / Box joint pincers                                                          |                 |
|      | 61112                                                                              | Llave ajustable / Adjustable wrench                                                           |                 |
| 2    | 62587, 62590                                                                       | Extractores / Gear pullers                                                                    |                 |
| 1    | 62963                                                                              | Llave dinamo métrica reversible / Reversible torque wrench                                    | 1/2", 40-200 nm |
| 4    | 69619, 69622, 69614, 69750                                                         | Martillos / Hammers                                                                           |                 |
| 1    | 62178                                                                              | Tenazas Grip / Grip pincers                                                                   |                 |
| 3    | 63498, 63570, 63678                                                                | Limas / Files                                                                                 | -               |
|      | 62233                                                                              | Tijera de chapa / Tin snip                                                                    |                 |
| 1    | 65362                                                                              | Flexómetros / Measuring tape                                                                  | 3 m/10'         |
|      | 65595                                                                              | Recogedor telescópico / Telescopic joing pick up                                              |                 |
|      | 69501                                                                              | Cortador / Cutter                                                                             |                 |



■ 57 PCS.

■ INCH



| COD.  | PCS. |       | Medidas en / Sizes in / Mesures en |    |
|-------|------|-------|------------------------------------|----|
| 68990 | 57   | -     | inch                               | 9  |
| 68991 |      | 51011 |                                    | 34 |

| PCS. | Composición / Composition / Composition                                            | Descripción / Description / Description                                                                                   |                 |
|------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------|
| 1    | 62213                                                                              | Alicates Circlips / Circlips pliers                                                                                       |                 |
| 11   | 66400, 66401, 66403, 66407, 66408, 66439, 66440, 66441, 66457, 66458, 66459        | Destornilladores mecánicos, electricistas, Phillips®, Pozidriv® / Slotted, electrician, Phillips®, Pozidriv® screwdrivers | -               |
| 12   | 60341, 60342, 60343, 60344, 60345, 60347, 60348, 60349, 60351, 60352, 60353, 60354 | Llaves combinadas / Combination wrenches                                                                                  | inch            |
| 17   | 61798                                                                              | Juego llaves vaso / Socket wrench set                                                                                     | 1/2", inch      |
| 7    | 65320, 65321, 65322, 65323, 65324, 65325, 65326                                    | Llaves hexagonales / Hexagonal keys                                                                                       | inch            |
| 1    | 62963                                                                              | Llave dinamométrica reversible / Reversible torque wrench                                                                 | 1/2", 40-200 nm |
| 3    | 62332, 62343, 62344                                                                | Alicates / Pliers                                                                                                         |                 |
| 1    | 62135                                                                              | Tenazas de canal / Box joint pincers                                                                                      |                 |
|      | 61112                                                                              | Llave ajustable / Adjustable wrench                                                                                       | -               |
| 2    | 69622, 69614                                                                       | Martillos / Hammers                                                                                                       |                 |
| 1    | 69534                                                                              | Tijera electricista / Electrician's scissors                                                                              |                 |

# 15

**HERRAMIENTAS PARA AUTOMOCIÓN**  
**AUTOMOTIVE TOOLS**  
**OUTILS POUR L'AUTOMOBILE**  
**AUTOMOBILWERKZEUGE**  
**UTENSILI PER L'AUTOMOTIVE**  
**FERRAMENTAS PARA AUTOMOÇÃO**  
**АВТОМОБИЛЬНЫЙ ИНСТРУМЕНТ**



## EGMAUTO

■ 53 PCS.

■ MM



| COD.  | PCS. |       | Medidas en / Sizes in / Mesures en |    |
|-------|------|-------|------------------------------------|----|
| 68988 | 53   | -     | mm                                 | 8  |
| 68989 |      | 51011 |                                    | 33 |


| PCS. | Composición / Composition / Composition                                            | Descripción / Description / Description                                                                                   |                 |
|------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------|
| 1    | 62213                                                                              | Alicates Circlips / Circlips pliers                                                                                       |                 |
| 7    | 66401, 66403, 66407, 66439, 66440, 66457, 66458                                    | Destornilladores mecánicos, electricistas, Phillips®, Pozidriv® / Slotted, electrician, Phillips®, Pozidriv® screwdrivers | -               |
| 12   | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736 | Llaves combinadas / Combination wrenches                                                                                  | mm              |
| 17   | 61796                                                                              | Juego llaves vaso / Socket wrench set                                                                                     | 1/2", mm        |
| 7    | 61504, 61505, 61506, 61508, 61509, 61510, 65307                                    | Llaves hexagonales / Hexagonal keys                                                                                       | mm              |
| 1    | 62963                                                                              | Llave dinamoétrica reversible / Reversible torque wrench                                                                  | 1/2", 40-200 nm |
| 3    | 62332, 62343, 62344                                                                | Alicates / Pliers                                                                                                         |                 |
| 1    | 62135                                                                              | Tenazas de canal / Box joint pincers                                                                                      |                 |
| 1    | 61112                                                                              | Llave ajustable / Adjustable wrench                                                                                       | -               |
| 2    | 69622, 69614                                                                       | Martillos / Hammers                                                                                                       |                 |
| 1    | 69534                                                                              | Tijera electricista / Electrician's scissors                                                                              |                 |

EG/AUTO

■ 26 PCS.

■ MM



| COD.  | PCS.                                    |  | Medidas en / Sizes in / Mesures en                                              |  |
|-------|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 69538 | 26                                      | 51013                                                                               | mm                                                                              | 4,5                                                                                   |
| PCS.  | Composición / Composition / Composition |                                                                                     | Descripción / Description / Description                                         |                                                                                       |
|       | 61112                                   |                                                                                     | Llave ajustable Unique Plus Titacrom® / Unique Plus Titacrom® Adjustable wrench | 10"                                                                                   |
| 1     | 62479                                   |                                                                                     | Alicate universal Mastercut / Mastercut Combination pliers                      | 210 mm                                                                                |
|       | 62499                                   |                                                                                     | Alicate telefonista Mastercut / Mastercut Long nose pliers                      | 200 mm                                                                                |
|       | 62343                                   |                                                                                     | Alicate corte diagonal / Diagonal cutting plier                                 | 160 mm                                                                                |
| 10    | 61496                                   |                                                                                     | Set Allen punta bola / Long patern ballpoint Allen set                          | -                                                                                     |
|       | 66401                                   |                                                                                     |                                                                                 | 4x100                                                                                 |
|       | 66403                                   |                                                                                     | Destornilladores mecánicos / Slotted screwdrivers                               | 5,5x125                                                                               |
|       | 66405                                   |                                                                                     |                                                                                 | 6,5x150                                                                               |
|       | 66406                                   |                                                                                     |                                                                                 | 8x150                                                                                 |
|       | 66439                                   |                                                                                     |                                                                                 | Destornilladores Phillips® / Phillips® screwdrivers                                   |
| 1     | 66440                                   |                                                                                     |                                                                                 | PH2                                                                                   |
|       | 66457                                   |                                                                                     | Destornilladores Pozidriv® / Pozidriv® screwdrivers                             | PZ1                                                                                   |
|       | 66458                                   |                                                                                     |                                                                                 | PZ2                                                                                   |
|       | 69613                                   |                                                                                     | Martillo de bola / Ball peen hammer                                             | 425 g                                                                                 |
|       | 63326                                   |                                                                                     | Cinzel / Flat chisel                                                            | 23x200                                                                                |
|       | 63748                                   |                                                                                     | Arco de Sierra / Hack Saw                                                       | -                                                                                     |
|       | 62850                                   |                                                                                     | Cortafíos / Chisel                                                              | 20x200                                                                                |

15

**HERRAMIENTAS PARA AUTOMOCIÓN**  
**AUTOMOTIVE TOOLS**  
**OUTILS POUR L'AUTOMOBILE**  
**AUTOMOBILWERKZEUGE**  
**UTENSILI PER L'AUTOMOTIVE**  
**FERRAMENTAS PARA AUTOMOÇÃO**  
**АВТОМОБИЛЬНЫЙ ИНСТРУМЕНТ**



**EGMAUT**

■ 135 PCS.

■ MM



| COD.         | PCS.                                                                                                                                                                                 |       | Medidas en / Sizes in / Mesures en                                                     |                                  |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------|----------------------------------|
| <b>69396</b> | 135                                                                                                                                                                                  | 51011 | mm                                                                                     | 60                               |
| PCS.         | Composición / Composition / Composition                                                                                                                                              |       | Descripción / Description / Description                                                |                                  |
| 25           | 61960                                                                                                                                                                                |       | Juego / Set                                                                            | 1/2", 25 pcs                     |
|              | 69280                                                                                                                                                                                |       | Juego llaves combinadas / Combination wrenches set                                     | 26 pcs                           |
| 26           | 61870, 61871, 61872, 61873, 61874, 61875, 61876, 61877, 61878, 61879, 61880, 61881, 61882, 61883, 61884, 61885, 61886, 61887, 61888, 61889, 61890, 61891, 61892, 61893, 61894, 61895 |       | LLaves de pipa / Angled sockets                                                        | 6-32                             |
| 10           | 61500                                                                                                                                                                                |       | Juego llaves Allen / Allen keys wrenches Set                                           | 1,5/2/2,5/3/4/5/5,5/6/8/10, hex. |
|              | 61110                                                                                                                                                                                |       | Llave ajustable Unique Plus / Unique Plus adjustable wrench                            | 6"                               |
| 1            | 61935                                                                                                                                                                                |       | Llave ajustable Alavesa Combi Unique Plus / Basque Combi Unique Plus adjustable wrench | 12"                              |
| 5            | 66877, 66878, 66879, 66881, 66882                                                                                                                                                    |       | Destornilladores mecánicos / Slotted screwdrivers                                      |                                  |
|              | 66898, 66899, 66900                                                                                                                                                                  |       | Destornilladores Phillips® Rotork / Phillips® Rotork screwdrivers                      |                                  |
| 3            | 66908, 66909, 66910                                                                                                                                                                  |       | Destornilladores Pozidriv® / Pozidriv® screwdrivers                                    |                                  |
|              | 66921, 66923, 66926                                                                                                                                                                  |       | Destornilladores Torx® Rotork / Rotork Torx® screwdrivers                              |                                  |
|              | 62332                                                                                                                                                                                |       | Alicate universal Titacrom® / Titacrom® Combination pliers                             |                                  |
|              | 62340                                                                                                                                                                                |       | Alicate telefonista Titacrom® / Titacrom® Long nose pliers pliers                      |                                  |
|              | 62342                                                                                                                                                                                |       | Alicate telefonista b/curva / Titacrom® bent nose pliers                               |                                  |
|              | 62344                                                                                                                                                                                |       | Cortaalambres reforzado / Heavy Duty cutting nippers                                   |                                  |
|              | 62129                                                                                                                                                                                |       | Tenaza canal / Box joint plier                                                         |                                  |
| 1            | 62172                                                                                                                                                                                |       | Tenaza Grip curva / Curved Grip pliers                                                 |                                  |
|              | 62349                                                                                                                                                                                |       | Alicate pelacables / Wirestripper                                                      |                                  |
|              | 62216                                                                                                                                                                                |       | Alicate Circlips exterior recto / External straight Circlips pliers                    |                                  |
|              | 62220                                                                                                                                                                                |       | Alicate Circlips exterior curvo / External bent Circlips pliers                        |                                  |
|              | 62224                                                                                                                                                                                |       | Alicate Circlips interior recto / Internal straight Circlips pliers                    |                                  |
|              | 62228                                                                                                                                                                                |       | Alicate Circlips interior curvo / Internal bent Circlips pliers                        |                                  |
|              | 63748                                                                                                                                                                                |       | Arco de sierra / Hack Saw                                                              |                                  |
| 10           | 64435                                                                                                                                                                                |       | Hojas de sierra acero al carbono / Carbon steel hacksaw blade                          | 24 dientes / 24 teeth            |
|              | 69621                                                                                                                                                                                |       | Martillo alemán / German type machinist's hammer                                       |                                  |
|              | 69616                                                                                                                                                                                |       | Martillo de bola / Ball pein hammer                                                    |                                  |
|              | 55326                                                                                                                                                                                |       | Martillo de nylon / Nylon hammer                                                       |                                  |
|              | 61017                                                                                                                                                                                |       | Llave Heavy Duty / Heavy Duty pipe wrench                                              | 14"                              |
| 1            | 61035                                                                                                                                                                                |       | Llave de cadena reversible / Reversible chain pipe wrench                              |                                  |
|              | 61480                                                                                                                                                                                |       | Llave de correa / Strap wrench                                                         |                                  |
|              | 63119                                                                                                                                                                                |       | Cortatubos Unique / Unique tube cutter                                                 |                                  |
|              | 68003                                                                                                                                                                                |       | Abocinador / Pulg flaring tool                                                         |                                  |
|              | 62151                                                                                                                                                                                |       | Tenaza cortacables / Cable cutters                                                     |                                  |
|              | 69501                                                                                                                                                                                |       | Cortador / Cutter                                                                      |                                  |

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**EGMAster**  
 ART IN INNOVATION

EG/AUTO

■ 102 PCS.

■ MM



| COD.  | PCS.                                                            |                                                                                | Medidas en / Sizes in / Mesures en |                                  |
|-------|-----------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------|----------------------------------|
| 69398 | 102                                                             | 51012                                                                          | mm                                 | 17                               |
| PCS.  | Composición / Composition / Composition                         | Descripción / Description / Description                                        |                                    |                                  |
| 25    | 61960                                                           | Juego / Set                                                                    |                                    | 1/2", 25 pcs                     |
| 12    | 69795                                                           | Juego llaves fijas / Open end wrenches set                                     |                                    | 12 pcs                           |
|       | 69278                                                           | Juego llaves combinadas / Combination wrenches set                             |                                    | 6/7/8/9/10/11/12/13/14/15/16/17  |
| 10    | 61500                                                           | Juego llaves Allen / Allen keys wrenches Set                                   |                                    | 1,5/2/2,5/3/4/5/5,5/6/8/10, hex. |
| 2     | 61110, 61113                                                    | Llaves ajustables Unique / Unique adjustable wrenches                          |                                    | 6"/12"                           |
| 5     | 66877, 66878, 66879, 66881, 66882                               | Destornilladores mecánicos Rotork / Rotork slotted screwdrivers                |                                    |                                  |
|       | 66898, 66899, 66900                                             | Destornilladores Phillips® Rotork / Phillips® Rotork screwdrivers              |                                    |                                  |
|       | 66908, 66909, 66910                                             | Destornilladores Pozidriv® Rotork / Pozidriv® Rotork screwdrivers              |                                    |                                  |
|       | 66921, 66923, 66926                                             | Destornilladores Torx® Rotork / Rotork Torx® screwdrivers                      |                                    |                                  |
|       | 66937, 66938, 66939                                             | Destornilladores carroceros Rotork / Rotork Stubby screwdrivers                |                                    |                                  |
| 1     | 62332                                                           | Alicate universal Titacrom® Bimat / Titacrom® Bimat combination pliers         |                                    |                                  |
|       | 62337                                                           | Alicate b/plana Titacrom® Bimat / Titacrom® Bimat flat nose pliers             |                                    |                                  |
|       | 62338                                                           | Alicate b/redonda Titacrom® Bimat / Titacrom® Bimat round nose pliers          |                                    |                                  |
|       | 62341                                                           | Alicate telefonista b/curva Titacrom® Bimat / Titacrom® Bimat bent nose pliers |                                    |                                  |
|       | 62343                                                           | Alicate c/diagonal Titacrom® Bimat / Titacrom® Bimat cutting pliers            |                                    |                                  |
|       | 62445                                                           | Tenaza Pico Loro Bimat / Bimat groove joint                                    |                                    |                                  |
|       | 62231                                                           | Tenaza Grip recta / Straight grip pliers                                       |                                    |                                  |
|       | 62183                                                           | Alicate Circlips exterior recto / External straight Circlips pliers            |                                    |                                  |
|       | 62182                                                           | Alicate Circlips exterior curvo / External bent Circlips pliers                |                                    |                                  |
|       | 62181                                                           | Alicate Circlips interior recto / Internal straight Circlips pliers            |                                    |                                  |
| 62180 | Alicate Circlips interior curvo / Internal bent Circlips pliers |                                                                                |                                    |                                  |
| 10    | 63748                                                           | Arco de sierra / Hack Saw                                                      |                                    |                                  |
|       | 64435                                                           | Hojas de sierra acero al carbono / Carbon steel hacksaw blade                  |                                    | 24 TPI                           |
| 1     | 69604                                                           | Martillo ebanista / Joiners hammer                                             |                                    |                                  |
|       | 55326                                                           | Martillo de nylon / Nylon hammer                                               |                                    |                                  |



**JUEGOS PARA AUTOMOCIÓN / AUTOMOBILE SETS / SETS POUR AUTOMOBILE / AUTOMOBIL-SETS / KIT PER AUTOMOBILE / JOGOS DE AUTOMOÇÃO / НАБОР ДЛЯ АВТОМОБИЛЕЙ**

■ 196 PCS.

■ MM



| COD.  | PCS. |       |   | Medidas en / Sizes in / Mesures en |     |
|-------|------|-------|---|------------------------------------|-----|
| 55584 | -    | -     | - | -                                  | 75  |
| 55585 | 196  | 51039 | - | mm                                 | 145 |
| 55586 | -    | 57060 | ● | -                                  | 230 |



| PCS. | Composición / Composition / Composition                                                                                                                                              | Descripción / Description / Description                                                                      |          |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------|
| 20   | 62214, 62215, 62216, 62217, 62218, 62219, 62220, 62221, 62222, 62223, 62224, 62225, 62226, 62227, 62228, 62229, 62180, 62181, 62182, 62183                                           | Alicates Circlips / Circlips pliers                                                                          |          |
| 4    | 51205, 51206, 51207, 51208                                                                                                                                                           | Llaves ajustables para filtro de aceite / Adjustable oil filter wrenches                                     |          |
| 1    | 51209                                                                                                                                                                                | Llave para filtro de aceite / Oil filter cap wrench                                                          |          |
|      | 51210                                                                                                                                                                                | Llave para filtro de aceite autorregulable / Self-gripping oil filter wrench                                 |          |
| 2    | 61460, 61461                                                                                                                                                                         | Llaves de vaso para bujías / Spark plug socket                                                               |          |
|      | 51215                                                                                                                                                                                | Alicate para cables de bujía / Spark plug lead plier                                                         |          |
|      | 65565                                                                                                                                                                                | Galgas de espesores de precisión / Precision feeler gauger                                                   |          |
| 1    | 62174                                                                                                                                                                                | Tenaza grip con cadena / Grip plier with chain                                                               | -        |
|      | 51719                                                                                                                                                                                | Pinza amperimétrica / Clamp Meter                                                                            |          |
|      | 62494                                                                                                                                                                                | Para unión de cables aislados y no aislados / For cable links insulated and no insulated                     |          |
|      | 62591                                                                                                                                                                                | Para terminales aislados / For insulated terminals                                                           |          |
| 2    | 51216, 51217                                                                                                                                                                         | Alicate para racores de carburante / Fuel line plier                                                         |          |
| 1    | 51218                                                                                                                                                                                | Alicate para desmontar y montar abrazaderas elásticas autoblocantes / Spring clamp fitting and removal plier |          |
|      | 62602                                                                                                                                                                                | Alicate automático para bridas / Automatic pliers for plastic cable-ties                                     |          |
| 3    | 51219, 51220, 51221                                                                                                                                                                  | Alicate para manguitos / Hose clamp                                                                          |          |
| 9    | 66788, 66789, 66790, 66791, 66792, 66793, 66794, 66795, 66796                                                                                                                        | Puntas atornilladoras con vaso Torx® / Torx® socket bits                                                     | 3/8"     |
| 2    | 51222, 512223                                                                                                                                                                        | Abrazadera para segmentos con rueda / Piston ring compressor                                                 |          |
|      | 65483                                                                                                                                                                                | Calibre pie de rey con bocas largas / Long tip Vernier Caliper                                               |          |
| 1    | 63076                                                                                                                                                                                | Cortatubos INOX / INOX tube cutter                                                                           |          |
|      | 63476                                                                                                                                                                                | Extensible para ruedas / Extensible wheel wrench                                                             |          |
|      | 51224                                                                                                                                                                                | Alicate para contrapesos de equilibrador de ruedas / Wheel weight plier                                      |          |
| 3    | 51225, 51226, 51227                                                                                                                                                                  | Palanca para desmontar neumáticos / Tyre-removers                                                            |          |
| 4    | 62831, 62832, 62833, 62834                                                                                                                                                           | Extractor de rótulas / Ball joint puller                                                                     |          |
|      | 51229                                                                                                                                                                                | Herramienta para sacar guarniciones / Seal puller                                                            | -        |
| 1    | 51230                                                                                                                                                                                | Herramienta para extracción de clips / Fastener removal tool                                                 |          |
|      | 63472                                                                                                                                                                                | Cinzel chapista / Extra flat cold chisel                                                                     |          |
| 9    | 66400, 66401, 66403, 66405, 66407, 66408, 66409, 66410, 66525                                                                                                                        | Destornilladores mecánicos / Slotted screwdrivers                                                            |          |
| 7    | 66438, 66439, 66440, 66441, 66442, 66526, 67192                                                                                                                                      | Destornilladores Phillips® / Phillips® screwdrivers                                                          |          |
|      | 76620, 76621, 76622, 76624, 76625, 76626, 76627                                                                                                                                      | Destornilladores electricistas / Electrician screwdrivers                                                    |          |
| 5    | 66456, 66457, 66458, 66459, 66460                                                                                                                                                    | Destornilladores Pozidriv® / Pozidriv® screwdrivers                                                          |          |
| 8    | 62331, 62333, 62337, 62338, 62343, 62344, 62345, 62349                                                                                                                               | Alicates / Pliers                                                                                            |          |
| 4    | 62587, 62588, 62589, 62590                                                                                                                                                           | Extractores / Gear pullers                                                                                   |          |
| 26   | 61725, 61726, 61727, 61728, 61729, 61730, 61731, 61732, 61733, 61734, 61735, 61736, 61737, 61738, 61739, 61740, 61741, 61742, 61743, 61744, 61745, 61746, 61747, 61748, 61749, 61750 | Llaves combinadas / Combination wrenches                                                                     | mm       |
| 14   | 61824, 61825, 61826, 61827, 61828, 61829, 61830, 61831, 61832, 61833, 61834, 61835, 61836                                                                                            | Llaves de tubo doble boca / Socket double ended wrenches                                                     | -        |
| 16   | 61615, 61616, 61617, 61618, 61619, 61620, 61621, 61622, 61623, 61624, 67493, 67494, 67495, 67496, 67497, 67498                                                                       | Llaves hexagonales / Hexagonal keys                                                                          | mm       |
| 2    | 62177, 62172                                                                                                                                                                         | Tenazas grip / Grip pincers                                                                                  | -        |
| 1    | 62134                                                                                                                                                                                | Tenaza de canal / Box joint                                                                                  |          |
| 16   | 61959                                                                                                                                                                                | Juego vasos / Socket set                                                                                     | 3/8", mm |
| 6    | 69614, 69521, 69729, 69752, 69619, 69621                                                                                                                                             | Martillos / Hammers                                                                                          |          |
| 1    | 65601                                                                                                                                                                                | Recogedor telescópico y aguja de dibujar 2 en 1 / Telescopic joint pick up and pocket scriber 2 in 1         |          |
|      | 65587                                                                                                                                                                                | Espejo articulado / Joint telescopic mirror                                                                  |          |
|      | 61112                                                                                                                                                                                | Llave ajustable / Adjustable wrench                                                                          | -        |
| 4    | 63498, 63678, 63606, 63570                                                                                                                                                           | Limas / Files                                                                                                |          |
| 1    | 63204                                                                                                                                                                                | Cortatubos plástico Piraina / Piraina plastic pipe cutter                                                    |          |
|      | 63915                                                                                                                                                                                | Cortabridas / Plastic tie cutter                                                                             |          |



# 15

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**AUTOMOTIVE TOOLS**  
**OUTILS POUR L'AUTOMOBILE**  
**AUTOMOBILWERKZEUGE**  
**UTENSILI PER L'AUTOMOTIVE**  
**FERRAMENTAS PARA AUTOMOÇÃO**  
**АВТОМОБИЛЬНЫЙ ИНСТРУМЕНТ**



## EGMAUTO

■ 126 PCS.

■ MM



| COD.  | PCS. |       |   | Medidas en / Sizes in / Mesures en |     |
|-------|------|-------|---|------------------------------------|-----|
| 55587 | -    | -     | - | -                                  | 47  |
| 55588 | 126  | 51025 | - | mm                                 | 100 |
| 55589 | -    | 50950 | ● | -                                  | 140 |

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| PCS. | Composición / Composition / Composition                                                                        | Descripción / Description / Description                                                                      |          |
|------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------|
| 16   | 62215, 62216, 62217, 62219, 62220, 62221, 62223, 62224, 62225, 62227, 62228, 62229, 62180, 62181, 62182, 62183 | Alicates Circlips / Circlips pliers                                                                          |          |
| 4    | 51205, 51206, 51207, 51208                                                                                     | Llaves ajustables para filtro de aceite / Adjustable oil filter wrenches                                     |          |
| 1    | 51209                                                                                                          | Llave para filtro de aceite / Oil filter cap wrench                                                          |          |
|      | 51210                                                                                                          | Llave para filtro de aceite autorregulable / Self-gripping oil filter wrench                                 |          |
| 2    | 61460, 61461                                                                                                   | Llaves de vaso para bujías / Spark plug socket                                                               |          |
|      | 51215                                                                                                          | Alicate para cables de bujía / Spark plug lead plier                                                         |          |
|      | 62174                                                                                                          | Tenaza grip con cadena / Grip plier with chain                                                               |          |
|      | 62494                                                                                                          | Para unión de cables aislados y no aislados / For cable links insulated and no insulated                     |          |
| 1    | 51217                                                                                                          | Alicate para racores de carburante / Fuel line plier                                                         |          |
|      | 51218                                                                                                          | Alicate para desmontar y montar abrazaderas elásticas autoblocantes / Spring clamp fitting and removal plier |          |
|      | 62602                                                                                                          | Alicate automático para bridas / Automatic pliers for plastic cable-ties                                     |          |
|      | 51220                                                                                                          | Alicate para manguitos / Hose clamp                                                                          |          |
| 9    | 66788, 66789, 66790, 66791, 66792, 66793, 66794, 66795, 66796                                                  | Puntas atornilladoras con vaso Torx® / Torx® socket bits                                                     | 3/8"     |
| 2    | 51222, 51223                                                                                                   | Abrazadera para segmentos con rueda / Piston ring compressor                                                 |          |
|      | 63476                                                                                                          | Extensible para ruedas / Extensible wheel wrench                                                             |          |
| 1    | 51224                                                                                                          | Alicate para contrapesos de equilibrador de ruedas / Wheel weight plier                                      |          |
| 4    | 62831, 62832, 62833, 62834                                                                                     | Extractor de rótulas / Ball joint puller                                                                     |          |
|      | 51229                                                                                                          | Herramienta para sacar guarniciones / Seal puller                                                            |          |
| 1    | 51230                                                                                                          | Herramienta para extracción de clips / Fastener removal tool                                                 |          |
|      | 63472                                                                                                          | Cinzel chapista / Extra flat cold chisel                                                                     |          |
| 5    | 66401, 66403, 66405, 66407, 66408                                                                              | Destornilladores mecánicos / Slotted screwdrivers                                                            |          |
| 4    | 66439, 66440, 66441, 66442                                                                                     | Destornilladores Phillips® / Phillips® screwdrivers                                                          |          |
| 5    | 76621, 76622, 76624, 76625, 76626                                                                              | Destornilladores electricistas / Electrician screwdrivers                                                    | 1000V    |
| 3    | 66457, 66458, 66459                                                                                            | Destornilladores Pozidriv® / Pozidriv® screwdrivers                                                          |          |
| 4    | 62332, 62343, 62345, 62349                                                                                     | Alicates / Pliers                                                                                            |          |
| 3    | 62587, 62588, 62589                                                                                            | Extractores / Gear pullers                                                                                   |          |
| 13   | 61725, 61727, 61729, 61730, 61732, 61733, 61734, 61736, 61738, 61739, 61741, 61743, 61744                      | Llaves combinadas / Combination wrenches                                                                     |          |
| 12   | 61618, 61619, 61620, 61621, 61622, 61623, 61624, 67493, 67494, 67495, 67496, 67497                             | Llaves hexagonales / Hexagonal keys                                                                          | mm       |
| 1    | 62178                                                                                                          | Tenaza grip / Grip plier                                                                                     |          |
|      | 62134                                                                                                          | Tenaza de canal / Box joint                                                                                  |          |
| 16   | 61959                                                                                                          | Juego vasos / Socket set                                                                                     | 3/8", mm |
| 4    | 69614, 69521, 69619, 69621                                                                                     | Martillos / Hammers                                                                                          |          |
|      | 65601                                                                                                          | Recogedor telescópico y aguja de dibujar 2 en 1 / Telescopic joint pick up and pocket scriber 2 in 1         |          |
| 1    | 65587                                                                                                          | Espejo articulado / Joint telescopic mirror                                                                  |          |
|      | 61112                                                                                                          | Llave ajustable / Adjustable wrench                                                                          |          |
|      | 51719                                                                                                          | Pinza amperemétrica / Clamp meter                                                                            |          |

**EGMAUT**

**SET DE MANTENIMIENTO DE COCHE ELÉCTRICO / HÍBRIDO / HYBRID / ELECTRIC VEHICLE MAINTENANCE SET / SET DE MAINTENANCE POUR VOITURE ÉLECTRIQUE / HÍBRIDE / WARTUNGSSATZ FÜR ELEKTRO- / HYBRIDFAHRZEUGE / SET DI MANUTENZIONE VEICOLO ELETTRICO / IBRIDO / JOGO DE MANUTENÇÃO PARA CARRO ELÉCTRICO / HÍBRIDO / НАБОР ДЛЯ ТЕХНИЧЕСКОГО ОБСЛУЖИВАНИЯ ЭЛЕКТРИЧЕСКОГО И ГИБРИДНОГО АВТОМОБИЛЯ**

23 PCS.

MM



| COD.         | PCS.                                     |       | Medidas en / Sizes in / Mesures en                                |     |
|--------------|------------------------------------------|-------|-------------------------------------------------------------------|-----|
| <b>72990</b> | 23                                       | 50994 | mm                                                                | 5,0 |
| PCS.         | Composición / Composition / Composition  |       | Descripción / Description / Description                           |     |
| 1            | 73683                                    |       | Llave de carraca reversible 1/2" / Reversible ratchet handle 1/2" |     |
| 2            | 73094, 73096                             |       | Llaves de estrella acodada / Offset ring wrenches                 |     |
| 6            | 74960, 74962, 74965, 74966, 74969, 74971 |       | Llaves de vaso 1/2" / Socket wrenches 1/2"                        |     |
|              | 73455                                    |       | Boquilla hexagonal / Hexagonal socket                             |     |
|              | 73446                                    |       | Alargadera 1/2" / Extension 1/2"                                  |     |
| 1            | 73004                                    |       | Tenaza de canal / Box joint                                       |     |
|              | 76583                                    |       | Alicate universal / Combination pliers                            |     |
|              | 76593                                    |       | Alicate de telefonista / Long nose pliers                         |     |
| 2            | 76738, 76629                             |       | Destornilladores Phillips® / Phillips® screwdrivers               |     |
| 3            | 76621, 76622, 76623                      |       | Destornilladores electricistas / Electrician screwdrivers         |     |
| 1            | 73555                                    |       | Guantes aislantes / Insulating gloves                             |     |
| 3            | 73287, 73288, 73289                      |       | Boquillas de autofijación / Self clamping slip-on claps           |     |

43 PCS.

MM






| COD.         | PCS.                                                                        |       | Medidas en / Sizes in / Mesures en                                 |    |
|--------------|-----------------------------------------------------------------------------|-------|--------------------------------------------------------------------|----|
| <b>79365</b> | 43                                                                          | 50996 | mm                                                                 | 21 |
| PCS.         | Composición / Composition / Composition                                     |       | Descripción / Description / Description                            |    |
| 1            | 73042                                                                       |       | Cortabridas / Plastic tie cutter                                   |    |
|              | 79058                                                                       |       | Tijera aislada / Insulating clamps                                 |    |
|              | 76616                                                                       |       | Alicate de corte diagonal / Electronic pliers                      |    |
| 2            | 76614, 76612                                                                |       | Alicate telefonista / Long nose pliers                             |    |
| 1            | 73249                                                                       |       | Grapa / Clamp                                                      |    |
|              | 73008                                                                       |       | Tenaza corta cables / Cable cutters                                |    |
| 3            | 76651, 76652, 76653                                                         |       | Destornilladores electricistas / Electrician screwdrivers          |    |
| 1            | 73040                                                                       |       | Pinza / Neat tip tweezer                                           |    |
| 3            | 76659, 76660, 76661                                                         |       | Destornilladores Pozidriv® / Pozidriv® screwdrivers                |    |
| 1            | 73041                                                                       |       | Pinza 45° / Neat tip tweezer 45°                                   |    |
| 2            | 73287, 73288                                                                |       | Boquilla de autofijación / Self clamping slip-on claps             |    |
| 1            | 73035                                                                       |       | Cuchillo recto / Straight knife                                    |    |
|              | 73036                                                                       |       | Cuchillo curvo / Curved knife                                      |    |
| 3            | 73251, 73252, 73253                                                         |       | Boquilla hexagonal / Hexagonal socket                              |    |
| 2            | 79894, 79898                                                                |       | Punta atornilladora con vaso / Socket bit                          |    |
| 1            | 73285                                                                       |       | Adaptador / Adapter                                                |    |
| 11           | 73230, 73231, 73232, 73233, 73234, 73235, 73236, 73237, 73238, 73239, 73240 |       | Llaves de vaso 1/4" / Socket wrenches 1/4"                         |    |
| 5            | 75058, 75059, 75060, 75061, 75062                                           |       | Llaves de vaso 1/4" serie larga / Long series socket wrenches 1/4" |    |
|              | 73256                                                                       |       | Extension con mango / Extension with handle                        |    |
| 1            | 79995                                                                       |       | Llave dinamometrica 3/8" / Torque wrench 3/8"                      |    |

EG/AUTO

■ 55 PCS.

■ MM



| COD.  | PCS.                                            |  | Medidas en / Sizes in / Mesures en |  |  |
|-------|-------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 79086 | 55                                              | 58597                                                                             | mm                                 | ●                                                                                   | 21                                                                                  |
| PCS.  | Composición / Composition / Composition         | Descripción / Description / Description                                           |                                    |                                                                                     |                                                                                     |
| 4     | 79799                                           | Mantas aislantes / Insulating blankets                                            |                                    |                                                                                     | 600x460                                                                             |
| 6     | 73249                                           | Grapas / Insulating clamps                                                        |                                    |                                                                                     | 150 mm                                                                              |
|       | 73281                                           | Alargadera 3/8" / Extension 3/8"                                                  |                                    |                                                                                     | 250mm                                                                               |
| 1     | 75204                                           | Alargadera 1/4" / Extension 1/4"                                                  |                                    |                                                                                     | 1/4"                                                                                |
|       | 73285                                           | Adaptador / Adapter                                                               |                                    |                                                                                     | 3/8" hembra-1/4" macho / 3/8" female-1/4" male                                      |
| 7     | 73233, 73234, 73235, 73236, 73237, 73238, 73239 | Llaves de vaso 1/4" / 1/4" Socket wrenches                                        |                                    |                                                                                     | 7,8,9,10,11,12,13 mm                                                                |
| 6     | 74918, 74919, 74920, 74921, 74922, 74923        | Llaves de vaso 3/8" / 3/8" Socket wrenches                                        |                                    |                                                                                     | 10,11,12,13,14,15 mm                                                                |
| 3     | 79495, 79496, 79497                             | Punta con cuadrado guía 1/4" / 1/4" Socket bit                                    |                                    |                                                                                     | T20,T25,T30                                                                         |
|       | 73251, 73252, 73253                             | Boquilla hexagonal 1/4" / 1/4" Hexagonal socket                                   |                                    |                                                                                     | 4,5,6 mm                                                                            |
|       | 76593                                           | Alicate telefonista boca curva / Bent nose plier                                  |                                    |                                                                                     |                                                                                     |
|       | 76595                                           | Alicate corte diagonal / Diagonal cutting plier                                   |                                    |                                                                                     | 160mm                                                                               |
| 1     | 79993                                           | Llave dinamométrica / Torque Wrench                                               |                                    |                                                                                     | 1000V                                                                               |
|       | 73004                                           | Tenaza de canal 10" / 10" Box joint pincer                                        |                                    |                                                                                     | -                                                                                   |
|       | 73008                                           | Tenaza cortacables / Cable cutters                                                |                                    |                                                                                     | 250mm                                                                               |
|       | 73685                                           | Carraca 3/8" / 3/8" Ratchet                                                       |                                    |                                                                                     | -                                                                                   |
| 3     | 74712, 74713, 74714                             | Destornilladores punta hexagonal Allen / Hexagonal Allen screwdrivers             |                                    |                                                                                     | 4,5,6mm                                                                             |
| 1     | 76657                                           | Destornillador Phillips® / Phillips® screwdriver                                  |                                    |                                                                                     | PH2                                                                                 |
| 3     | 76626, 76623, 76621                             | Destornilladores electricistas / Electrician screwdrivers                         |                                    |                                                                                     | 8x175, 3x100, 5,5x125                                                               |
|       | 75046, 75044, 75043                             | Destornilladores Tamper torx / Tamper torx screwdrivers                           |                                    |                                                                                     | TT20,TT25,TT30                                                                      |
| 6     | 73288, 73289, 73287                             | Boquillas de autofijación / Self clamping slip-on claps                           |                                    |                                                                                     | Ø10, Ø20, Ø30                                                                       |
| 1     | 51251                                           | Multímetro / Multimeter                                                           |                                    |                                                                                     | -                                                                                   |

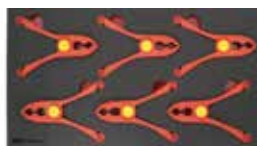
15

HERRAMIENTAS PARA AUTOMOCIÓN  
AUTOMOTIVE TOOLS  
OUTILS POUR L'AUTOMOBILE  
AUTOMOBILWERKZEUGE  
UTENSILI PER L'AUTOMOTIVE  
FERRAMENTAS PARA AUTOMOÇÃO  
АВТОМОБИЛЬНЫЙ ИНСТРУМЕНТ



EGMAUTO

■ INCH



NI

| COD.  | PCS. |       | Medidas en / Sizes in / Mesures en |    |
|-------|------|-------|------------------------------------|----|
| 38946 | 55   | 58597 | inch                               | 21 |

| PCS. | Composición / Composition / Composition         | Descripción / Description / Description                                  |       |
|------|-------------------------------------------------|--------------------------------------------------------------------------|-------|
| 4    | 79799                                           | Mantas aislantes / Insulating blankets                                   | -     |
| 6    | 73249                                           | Grapas / Clamp                                                           |       |
|      | 73281                                           |                                                                          | 3/8"  |
| 1    | 75204                                           | Alargadera / Extension                                                   | 1/4"  |
|      | 73285                                           | Adaptador / Adapter                                                      | -     |
| 7    | 73370, 73371, 73372, 73373, 73374, 73375, 73376 | Llaves de vaso / Socket wrenches                                         | 1/4"  |
| 6    | 74942, 74943, 74944, 74945, 74946, 74947        |                                                                          | 3/8"  |
| 3    | 79495, 79496, 79497                             | Punta con cuadrado guía / Socket bit                                     |       |
|      | 73251, 73252, 73253                             | Boquilla hexagonal / Hexagonal socket                                    | 1/4"  |
|      | 76593                                           | Alicate telefonista boca curva / Bent nose plier                         | -     |
|      | 76595                                           | Alicate corte diagonal / Diagonal cutting pliers                         |       |
| 1    | 79993                                           | Llave dinamoétrica / Torque wrench                                       | 1000V |
|      | 73004                                           | Tenaza de canal / Box joint                                              | 10"   |
|      | 73008                                           | Tenaza cortacables / Cable cutter                                        | -     |
|      | 73685                                           | Carraca / Ratchet                                                        | 3/8"  |
| 3    | 75084, 75131, 75097                             | Destornilladores punta hexagonal Allen / Hexagonal Allen bit screwdriver |       |
| 1    | 76657                                           | Destornillador Phillips® / Phillips® screwdriver                         |       |
|      | 75069, 75066, 75064                             | Destornilladores electricistas / Electrician screwdrivers                |       |
| 3    | 75046, 75044, 75043                             | Destornilladores tampoer torx / Tamper torx screwdrivers                 |       |
| 6    | 73288, 73289, 73287                             | Boquillas de autofijación / Self clamping slip-on clamp                  |       |
| 1    | 51251                                           | Multímetro / Multimeter                                                  |       |

# PROYECTOS PRINCIPALES

## *MAIN PROJECTS*

# PRINCIPAUX PROJETS



شركة نواة للطاقة  
Nawah Energy Company

## **NAWAH ENERGY COMPANY**

**CENTRAL NUCLEAR DE BARAKAH / BARAKAH NUCLEAR  
POWER PLANT / CENTRALE NUCLÉAIRE DE BARAKAH**

EMIRATOS ÁRABES UNIDOS / UNITED ARAB EMIRATES /  
ÉMIRATS ARABES UNIS



16

**MACHOS Y COJINETES**  
**TAPS AND DIES**  
**TARAUDS ET FILIÈRES**  
**GEWINDEBOHRER UND SCHNEIDEISEN**  
**MASCHI E FILIERE**  
**MACHOS E CAÇONETES**  
**МЕТЧИКИ И ГРЕБЕНКИ**



**EGA Master ha desarrollado una nueva gama de útiles de roscado (machos y cojinetes) que ofrecen una solución idónea en las tareas de reparación y mantenimiento industrial.**

El diseño de estas herramientas se ha realizado con una geometría que asegura la calidad de las roscas obtenidas y mejora la extracción de la viruta. Este diseño cumple, además, con la normativa de referencia.

Los 4 filos de corte y los materiales empleados en la fabricación de los machos y cojinetes (acero rápido: HSS-M2 o HSS-Co) favorecen la duración de la herramienta y minimizan los tiempos de operación necesarios.

La gama de machos y cojinetes de roscar que ha diseñado **EGA Master** incluye todas las roscas de uso común en la industria:

- Rosca métrica, paso normal y fino
- Rosca BSW
- Roscas UNC y UNF
- Rosca GAS (BSP)
- Rosca NPT

**EGA Master has developed a new range of threaded tools (taps and dies) that offer a suitable solution at industrial maintenance task and repair actions.**

*The design of these tools has been made with a geometry that ensures the quality of the threads obtained and improves the extraction of the chip. This design also complies with the reference standards.*

*The 4 cutting edges and the materials used in the manufacture of the taps and dies (HSS-M2 or HSS-Co steel) improve the tool life and minimize the required operating times.*

*The range of taps and des that EGA Master has designed include all the threads commonly used in the industry:*

- Metric thread, coarse and fine pitch
- BSW thread
- UNC and UNF threads
- GAS (BSP) thread
- NPT thread



**EGA Master a développé une nouvelle gamme d'outils de filetage (Tarauds et filières) qui offrent la solution idéale pour les tâches de réparation et de maintenance industrielle.**

La conception de ces outils a été réalisée avec une géométrie qui garantit la qualité des filetages obtenus et facilite l'extraction de copeaux. Leur conception est de plus conforme à la norme de référence.

Les 4 arêtes de coupe et les matériaux utilisés dans la fabrication des tarauds et filières (acier rapide: HSS-M2 ou HSS-Co), améliorent la durée de vie de l'outil et réduisent le temps de travail nécessaire.

La gamme de tarauds et filières de filetage conçue par **EGA Master** regroupe tous les types de filetage d'usage régulier dans l'industrie:

- Filetage métrique, pas normal et fin
- Filetage BSW
- Filetage UNC et UNF
- Filetage GAS (BSP)
- Filetage NPT



**SET DE 3 MACHOS DE ROSCAR MÉTRICA / METRIC SET OF 3 TAPS / SET DE 3 TARAUDS MÉTRIQUES / SATZ 3 METRISCHE GEWINDEBOHRER / KIT 3 PEZZI MASCHI PER FILETTARE METRICHE / CONJUNTO DE 3 MACHOS DE ROSCAR MÉTRICOS / НАБОР ИЗ ТРЕХ МЕТРИЧЕСКИХ МЕТЧИКОВ**

| COD.  | METRIC    | A (mm) | L1 (mm) | L (mm) | g   |     |    |
|-------|-----------|--------|---------|--------|-----|-----|----|
| 57700 | 2 x 0,4   | 2,0    | 8,0     | 41     | 15  |     |    |
| 57701 | 3 x 0,5   | 2,5    | 11      | 48     |     | 100 |    |
| 57702 | 4 x 0,7   | 3,15   | 13      | 53     | 25  |     |    |
| 57703 | 5 x 0,8   | 4,0    | 16      | 58     | 40  |     |    |
| 57704 | 6 x 1     | 5,0    | 19      | 66     | 50  |     | 48 |
| 57705 | 7 x 1     | 4,5    |         |        |     |     |    |
| 57706 | 8 x 1,25  | 5,0    | 22      | 72     | 100 |     |    |
| 57707 | 9 x 1,25  | 5,6    |         |        |     |     |    |
| 57708 | 10 x 1,5  | 6,3    | 24      | 80     | 140 |     | 20 |
| 57709 | 11 x 1,5  |        | 25      | 85     | 150 |     |    |
| 57710 | 12 x 1,75 | 7,1    | 29      | 89     |     |     |    |
| 57711 | 14 x 2    | 9,0    | 30      | 95     | 235 |     | 10 |
| 57712 | 16 x 2    | 10     | 32      | 102    |     |     |    |
| 57713 | 18 x 2,5  |        | 37      | 112    | 470 |     | 5  |
| 57714 | 20 x 2,5  | 11,2   |         |        |     |     |    |
| 57715 | 22 x 2,5  | 12,5   | 38      | 118    | 670 |     | 3  |
| 57716 | 24 x 3    | 14     | 45      | 130    | 835 |     |    |

ISO 529

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Material / Material / Matière

HSS-M2

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Paso normal / Coarse pitch / Pas normal



**SET DE 2 MACHOS DE ROSCAR MÉTRICA / METRIC SET OF 2 TAPS / SET DE 2 TARAUDS MÉTRIQUES / SATZ 2 METRISCHE GEWINDEBOHRER / KIT 2 PEZZI MASCHI PER FILETTARE METRICHE / CONJUNTO DE 2 MACHOS DE ROSCAR MÉTRICOS / НАБОР ИЗ ДВУХ МЕТРИЧЕСКИХ МЕТЧИКОВ**

| COD.  | METRIC    | A (mm) | L1 (mm) | L (mm) | g   |    |    |
|-------|-----------|--------|---------|--------|-----|----|----|
| 57725 | 6 x 0,75  | 5,0    |         |        | 30  |    | 90 |
| 57726 | 7 x 0,75  | 4,5    | 19      | 66     |     |    |    |
| 57727 | 8 x 0,75  |        |         |        | 35  |    | 63 |
| 57728 | 8 x 1     | 5,0    | 22      | 72     |     |    |    |
| 57729 | 9 x 0,75  |        | 19      | 66     |     |    |    |
| 57730 | 9 x 1     | 5,6    | 22      | 72     |     |    |    |
| 57731 | 10 x 0,75 |        | 20      | 73     | 55  |    | 42 |
| 57732 | 10 x 1    |        | 24      |        |     |    |    |
| 57733 | 10 x 1,25 |        |         |        |     |    |    |
| 57734 | 11 x 0,75 | 6,3    |         |        |     |    |    |
| 57735 | 11 x 1    |        |         | 80     |     |    |    |
| 57736 | 11 x 1,25 |        | 22      |        |     |    |    |
| 57737 | 12 x 0,75 |        |         |        | 90  |    | 30 |
| 57738 | 12 x 1    | 7,1    |         |        |     |    |    |
| 57739 | 12 x 1,25 |        | 29      | 89     |     |    |    |
| 57740 | 12 x 1,5  |        |         |        |     |    |    |
| 57741 | 14 x 1    |        | 22      | 87     |     |    |    |
| 57742 | 14 x 1,25 | 9,0    | 30      | 95     | 135 |    |    |
| 57743 | 14 x 1,5  |        |         |        |     | 20 |    |
| 57744 | 16 x 1    | 10     | 22      | 92     | 150 |    |    |
| 57745 | 16 x 1,5  |        | 32      | 102    |     |    |    |
| 57746 | 18 x 1,5  |        |         |        | 250 |    |    |
| 57747 | 18 x 2    | 11,2   | 37      | 112    |     |    | 10 |
| 57748 | 20 x 1,5  |        |         |        | 270 |    |    |
| 57749 | 22 x 1,5  | 12,5   | 38      | 118    | 400 |    | 5  |
| 57750 | 24 x 2    | 14     | 45      | 130    |     |    |    |

ISO 529

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Material / Material / Matière

HSS-Co

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Paso fino / Fine pitch / Pas fin



**SET DE 3 MACHOS DE ROSCAR BSW / BSW SET OF 3 TAPS / SET DE 3 TARAUDS BSW / BSW SATZ 3 METRISCHE GEWINDEBOHRER / KIT 3 PEZZI MASCHI PER FILETTARE BSW / CONJUNTO DE 3 MACHOS DE ROSCAR BSW / НАБОР МЕТЧИКОВ СТАНДАРТА BSW (3 ШТ)**

| COD.  | WITHWORTH  | A (mm) | L1 (mm) | L (mm) | g   |     |   |
|-------|------------|--------|---------|--------|-----|-----|---|
| 57760 | 1/8" x 40  | 2,7    | 12      | 40     | 15  | 100 |   |
| 57761 | 5/32" x 32 | 3,4    | 14      | 45     |     |     |   |
| 57762 | 3/16" x 24 | 4,3    |         |        | 35  |     |   |
| 57763 | 1/4" x 20  |        |         |        | 45  | 48  |   |
| 57764 | 5/16" x 18 | 4,9    | 22      | 56     | 50  |     |   |
| 57765 | 3/8" x 16  | 5,5    | 25      | 70     | 75  |     |   |
| 57766 | 7/16" x 14 | 6,2    | 30      | 75     | 120 |     | ● |
| 57767 | 1/2" x 12  | 7      | 30      | 75     | 135 | 20  |   |
| 57768 | 9/16" x 12 |        |         |        | 190 |     |   |
| 57769 | 5/8" x 11  | 9      | 32      | 80     | 220 | 10  |   |
| 57770 | 3/4" x 10  | 11     |         | 95     | 500 | 5   |   |
| 57771 | 7/8" x 9   | 14,5   |         | 100    | 670 |     |   |
| 57772 | 1" x 8     | 16     | 50      | 110    | 725 | 3   |   |

DIN 352

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Material / Material / Matière

HSS-M2



**SET DE 3 MACHOS DE ROSCAR UNC / UNC SET OF 3 TAPS / SET DE 3 TARAUDS UNC / UNC SATZ 3 METRISCHE GEWINDEBOHRER / KIT 3 PEZZI MASCHI PER FILETTARE UNC / CONJUNTO DE 3 MACHOS DE ROSCAR UNC / НАБОР МЕТЧИКОВ СТАНДАРТА UNC (3 ШТ)**

| COD.  | UNC        | A (mm) | L1 (mm) | L (mm) | g   |     |   |
|-------|------------|--------|---------|--------|-----|-----|---|
| 57780 | Nº 2 x 56  |        | 11      | 36     |     |     |   |
| 57781 | Nº 3 x 48  | 2,1    |         |        |     |     |   |
| 57782 | Nº 4 x 40  |        | 12      | 40     | 15  | 100 |   |
| 57783 | Nº 5 x 40  | 2,7    |         |        |     |     |   |
| 57784 | Nº 6 x 32  | 3,0    | 14      | 45     |     |     |   |
| 57785 | Nº 8 x 32  | 3,4    |         |        |     |     |   |
| 57786 | Nº 10 x 24 |        | 16      | 48     | 35  |     |   |
| 57787 | Nº 12 x 24 |        | 18      | 50     |     |     |   |
| 57788 | 1/4" x 20  | 4,9    | 22      | 56     | 45  | 48  |   |
| 57789 | 5/16" x 18 |        | 25      | 63     | 50  |     | ● |
| 57790 | 3/8" x 16  | 5,5    | 28      | 70     | 75  |     |   |
| 57791 | 7/16" x 14 | 6,2    | 30      | 75     | 115 |     |   |
| 57792 | 1/2" x 13  | 7,0    |         |        | 135 | 20  |   |
| 57793 | 9/16" x 12 |        | 32      | 80     | 190 |     |   |
| 57794 | 5/8" x 11  | 9,0    | 36      | 90     | 220 | 10  |   |
| 57795 | 3/4" x 10  | 11     | 40      | 95     | 500 | 5   |   |
| 57796 | 7/8" x 9   | 14,5   | 45      | 110    | 335 |     |   |
| 57797 | 1" x 8     | 16     | 50      | 110    | 360 | 6   |   |

DIN 352 ANSI B1.1





**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Material / Material / Matière

HSS-M2



**SET DE 3 MACHOS DE ROSCAR UNF / UNF SET OF 3 TAPS / SET DE 3 TARAUDS UNF / UNF SATZ 3 METRISCHE GEWINDEBOHRER / KIT 3 PEZZI MASCHI PER FILETTARE UNF / CONJUNTO DE 3 MACHOS DE ROSCAR UNF / НАБОР МЕТЧИКОВ СТАНДАРТА UNF (3 ШТ)**

| COD.  |  | A (mm) | L1 (mm) | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|---------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 57800 | Nº 2 x 64                                                                         | 2,1    | 10      | 32     | 30                                                                                | 90                                                                                |                                                                                     |
| 57801 | Nº 3 x 56                                                                         |        |         |        |                                                                                   |                                                                                   |                                                                                     |
| 57802 | Nº 4 x 48                                                                         | 2,7    | 12      | 40     | 30                                                                                | 90                                                                                |                                                                                     |
| 57803 | Nº 5 x 44                                                                         |        |         |        |                                                                                   |                                                                                   |                                                                                     |
| 57804 | Nº 6 x 40                                                                         | 3,0    | 14      | 45     | 30                                                                                | 90                                                                                |                                                                                     |
| 57805 | Nº 8 x 36                                                                         |        |         |        |                                                                                   |                                                                                   |                                                                                     |
| 57806 | Nº 10 x 32                                                                        | 4,9    | 16      | 50     | 30                                                                                | 90                                                                                |                                                                                     |
| 57807 | Nº 12 x 28                                                                        |        |         |        |                                                                                   |                                                                                   |                                                                                     |
| 57808 | 1/4" x 28                                                                         | 5,5    | 18      | 56     | 35                                                                                | 63                                                                                | ●                                                                                   |
| 57809 | 5/16" x 24                                                                        |        |         |        |                                                                                   |                                                                                   |                                                                                     |
| 57810 | 3/8" x 24                                                                         | 6,2    | 20      | 63     | 55                                                                                | 42                                                                                |                                                                                     |
| 57811 | 7/16" x 20                                                                        |        |         |        |                                                                                   |                                                                                   |                                                                                     |
| 57812 | 1/2" x 20                                                                         | 7,0    | 20      | 70     | 90                                                                                | 30                                                                                |                                                                                     |
| 57813 | 9/16" x 18                                                                        |        |         |        |                                                                                   |                                                                                   |                                                                                     |
| 57814 | 5/8" x 18                                                                         | 9,0    | 22      | 80     | 135                                                                               | 20                                                                                |                                                                                     |
| 57815 | 3/4" x 16                                                                         |        |         |        |                                                                                   |                                                                                   |                                                                                     |
| 57816 | 7/8" x 14                                                                         | 14,5   | 22      | 80     | 250                                                                               | 10                                                                                |                                                                                     |
| 57817 | 1" x 12                                                                           |        |         |        |                                                                                   |                                                                                   |                                                                                     |





DIN 2181 ANSI B1.1

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Material / Material / Matière

HSS-M2

**SET DE 2 MACHOS DE ROSCAR GAS (BSP) / GAS (BSP) SET OF 2 TAPS / SET DE 2 TARAUDS GAS (BSP) / SATZ 2 GEWINDEBOHRER GAS (BSP) / KIT 2 PEZZI MASCHI PER FILETTARE GAS (BSP) / CONJUNTO DE 2 MACHOS DE ROSCAR GAS (BSP) / НАБОР МЕТЧИКОВ СТАНДАРТА BSP (2 ШТ)**

| COD.  |  | A (mm) | L1 (mm) | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|---------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 57820 | 1/8" x 28                                                                           | 5,5    | 20      | 60     | 75                                                                                  | 16                                                                                  |                                                                                       |
| 57821 | 1/4" x 19                                                                           |        |         |        |                                                                                     |                                                                                     |                                                                                       |
| 57822 | 3/8" x 19                                                                           | 9,0    | 22      | 80     | 135                                                                                 | 7                                                                                   | ●                                                                                     |
| 57823 | 1/2" x 14                                                                           |        |         |        |                                                                                     |                                                                                     |                                                                                       |
| 57824 | 3/4" x 14                                                                           | 16     | 25      | 90     | 475                                                                                 | 4                                                                                   |                                                                                       |
| 57825 | 1" x 11                                                                             |        |         |        |                                                                                     |                                                                                     |                                                                                       |

DIN 5157





**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Material / Material / Matière

HSS-M2



**MACHOS DE ROSCAR NPT / NPT TAPS / TARAUDS NPT / GEWINDEBOHRER NPT / MASCHI A MANO PER FILETTARE NPT / MACHOS DE ROSCAR NPT / МЕТЧИКИ СТАНДАРТА NPT**

| COD.  |  | A (mm) | L1 (mm) | L (mm) |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|---------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 57751 | 1/8" x 27                                                                         | 6      | 19      | 54     | 25                                                                                | 60                                                                                |                                                                                     |
| 57752 | 1/4" x 18                                                                         | 9      | 27      | 62     | 35                                                                                |                                                                                   |                                                                                     |
| 57753 | 3/8" x 18                                                                         | 11     |         | 65     | 65                                                                                | 36                                                                                |                                                                                     |
| 57754 | 1/2" x 14                                                                         | 14     |         | 80     | 135                                                                               | 15                                                                                |                                                                                     |
| 57755 | 3/4" x 14                                                                         | 18     | 35      | 83     | 230                                                                               | 8                                                                                 | •                                                                                   |
| 57756 | 1" x 11,5                                                                         | 22     | 44      | 95     | 420                                                                               |                                                                                   |                                                                                     |
| 57757 | 1.1/4" x 11,5                                                                     | 24     |         | 125    | 750                                                                               | 4                                                                                 |                                                                                     |
| 57758 | 1.1/2" x 11,5                                                                     | 29     | 33      | 140    | 1000                                                                              |                                                                                   |                                                                                     |
| 57759 | 2" x 11,5                                                                         | 35     |         | 160    | 1100                                                                              | 1                                                                                 |                                                                                     |

DIN 233






**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

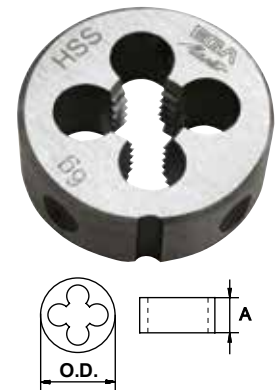
Material / Material / Matière

HSS-M2



**COJINETES ROSCA MÉTRICA / ROUND METRIC THREAD DIES / FILIÈRES METRIQUE / SCHNEIDEISEN METRISCH / FILIERE TONDE METRICA / CAÇONETES ROSCA MÉTRICA / ПЛАШКИ РЕЗЬБОНАРЕЗНЫЕ МЕТРИЧЕСКИЕ**

| COD.  |  | A (mm) |  |  |  |  |
|-------|------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 57845 | 2 x 0,4                                                                            |        | 16                                                                                 | 15                                                                                 |                                                                                    |                                                                                      |
| 57846 | 3 x 0,5                                                                            | 5      |                                                                                    | 20                                                                                 |                                                                                    |                                                                                      |
| 57847 | 4 x 0,7                                                                            |        | 20                                                                                 |                                                                                    |                                                                                    |                                                                                      |
| 57848 | 5 x 0,8                                                                            | 7      |                                                                                    | 25                                                                                 |                                                                                    |                                                                                      |
| 57849 | 6 x 1                                                                              |        |                                                                                    |                                                                                    | 105                                                                                |                                                                                      |
| 57850 | 7 x 1                                                                              |        |                                                                                    |                                                                                    |                                                                                    |                                                                                      |
| 57851 | 8 x 1,25                                                                           | 9      | 25                                                                                 | 30                                                                                 |                                                                                    |                                                                                      |
| 57852 | 9 x 1,25                                                                           |        |                                                                                    |                                                                                    |                                                                                    |                                                                                      |
| 57853 | 10 x 1,5                                                                           |        | 30                                                                                 | 55                                                                                 |                                                                                    |                                                                                      |
| 57854 | 11 x 1,5                                                                           | 11     |                                                                                    |                                                                                    |                                                                                    |                                                                                      |
| 57856 | 12 x 1,75                                                                          |        | 38                                                                                 | 85                                                                                 |                                                                                    |                                                                                      |
| 57858 | 14 x 2                                                                             | 14     |                                                                                    |                                                                                    |                                                                                    |                                                                                      |
| 57859 | 16 x 2                                                                             |        |                                                                                    |                                                                                    | 30                                                                                 |                                                                                      |
| 57860 | 18 x 2,5                                                                           | 18     | 45                                                                                 | 180                                                                                |                                                                                    |                                                                                      |
| 57861 | 20 x 2,5                                                                           |        |                                                                                    |                                                                                    |                                                                                    |                                                                                      |
| 57864 | 22 x 2,5                                                                           | 22     | 55                                                                                 | 220                                                                                | 11                                                                                 |                                                                                      |
| 57865 | 24 x 3                                                                             |        |                                                                                    |                                                                                    |                                                                                    |                                                                                      |
| 57866 | 6 x 0,75                                                                           | 7      | 20                                                                                 | 25                                                                                 |                                                                                    |                                                                                      |
| 57867 | 7 x 0,75                                                                           |        |                                                                                    |                                                                                    |                                                                                    |                                                                                      |
| 57868 | 8 x 0,75                                                                           |        |                                                                                    |                                                                                    | 105                                                                                | •                                                                                    |
| 57869 | 8 x 1                                                                              | 9      | 25                                                                                 | 30                                                                                 |                                                                                    |                                                                                      |
| 57870 | 9 x 0,75                                                                           |        |                                                                                    |                                                                                    |                                                                                    |                                                                                      |
| 57871 | 9 x 1                                                                              |        |                                                                                    |                                                                                    |                                                                                    |                                                                                      |
| 57872 | 10 x 0,75                                                                          |        |                                                                                    |                                                                                    |                                                                                    |                                                                                      |
| 57873 | 10 x 1                                                                             |        |                                                                                    |                                                                                    |                                                                                    |                                                                                      |
| 57874 | 10 x 1,25                                                                          | 11     | 30                                                                                 | 55                                                                                 |                                                                                    |                                                                                      |
| 57875 | 11 x 0,75                                                                          |        |                                                                                    |                                                                                    |                                                                                    |                                                                                      |
| 57876 | 11 x 1                                                                             |        |                                                                                    |                                                                                    |                                                                                    |                                                                                      |
| 57879 | 12 x 1                                                                             |        |                                                                                    |                                                                                    |                                                                                    |                                                                                      |
| 57880 | 12 x 1,25                                                                          |        |                                                                                    |                                                                                    | 30                                                                                 |                                                                                      |
| 57881 | 12 x 1,5                                                                           | 10     | 38                                                                                 | 75                                                                                 |                                                                                    |                                                                                      |
| 57882 | 14 x 1                                                                             |        |                                                                                    |                                                                                    |                                                                                    |                                                                                      |
| 57883 | 14 x 1,25                                                                          |        |                                                                                    |                                                                                    |                                                                                    |                                                                                      |
| 57884 | 14 x 1,5                                                                           |        |                                                                                    |                                                                                    |                                                                                    |                                                                                      |
| 57885 | 16 x 1                                                                             |        |                                                                                    |                                                                                    |                                                                                    |                                                                                      |
| 57886 | 16 x 1,5                                                                           |        |                                                                                    |                                                                                    |                                                                                    |                                                                                      |
| 57887 | 18 x 1,5                                                                           | 14     | 45                                                                                 | 150                                                                                |                                                                                    |                                                                                      |
| 57889 | 18 x 2                                                                             |        |                                                                                    |                                                                                    |                                                                                    |                                                                                      |
| 57890 | 20 x 1,5                                                                           |        |                                                                                    |                                                                                    | 11                                                                                 |                                                                                      |



| COD.  | METRIC   | A (mm) | O.D. (mm) | g   |    |   |
|-------|----------|--------|-----------|-----|----|---|
| 57891 | 22 x 1,5 |        |           |     |    |   |
| 57892 | 24 x 1,5 | 16     | 55        | 200 | 11 | ● |
| 57893 | 24 x 2   |        |           |     |    |   |

DIN 223 EN 22568

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Material / Material / Matière

HSS-M2

**COJINETES ROSCA BSW / ROUND BSW THREAD DIES / FILIÈRES BSW / SCHNEIDEISEN BSW / FILIERE TONDE BSW / CAÇONETES ROSCA BSW / ПЛАШКИ СТАНДАРТА BSW**

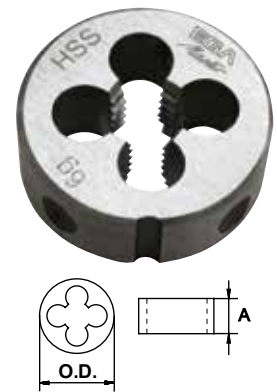
| COD.  | WITHWORTH      | A (mm) | O.D. (mm) | g   |     |   |
|-------|----------------|--------|-----------|-----|-----|---|
| 57900 | BSW 1/8" x 40  | 5      |           | 20  |     |   |
| 57901 | BSW 5/32" x 32 |        | 20        |     |     |   |
| 57902 | BSW 3/16" x 24 | 7      |           | 25  | 105 |   |
| 57903 | BSW 1/4" x 20  |        |           |     |     |   |
| 57904 | BSW 5/16" x 18 | 9      | 25        | 30  |     |   |
| 57905 | BSW 3/8" x 16  |        |           |     |     |   |
| 57906 | BSW 7/16" x 14 | 11     | 30        | 55  |     | ● |
| 57907 | BSW 1/2" x 12  | 14     | 38        | 85  | 30  |   |
| 57908 | BSW 9/16" x 12 |        |           |     |     |   |
| 57909 | BSW 5/8" x 11  | 18     | 45        | 180 |     |   |
| 57910 | BSW 3/4" x 10  |        |           |     | 11  |   |
| 57911 | BSW 7/8" x 9   | 22     | 55        | 220 |     |   |
| 57912 | BSW 1" x 8     |        |           |     |     |   |

DIN 223 EN 22568

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Material / Material / Matière

HSS-M2



**COJINETES ROSCA UNC / ROUND UNC THREAD DIES / FILIÈRES UNC / SCHNEIDEISEN UNC / FILIERE TONDE UNC / CAÇONETES ROSCA UNC / ПЛАШКИ СТАНДАРТА UNC**

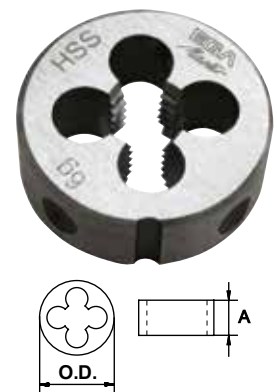
| COD.  | UNC        | A (mm) | O.D. (mm) | g   |     |   |
|-------|------------|--------|-----------|-----|-----|---|
| 57920 | Nº 2 x 56  |        | 16        | 15  |     |   |
| 57921 | Nº 3 x 48  |        |           |     |     |   |
| 57922 | Nº 4 x 40  | 5      |           |     |     |   |
| 57923 | Nº 5 x 40  |        |           | 20  |     |   |
| 57924 | Nº 6 x 32  |        |           |     | 216 |   |
| 57925 | Nº 8 x 32  |        | 20        |     |     |   |
| 57926 | Nº 10 x 24 |        |           |     |     |   |
| 57927 | Nº 12 x 24 | 7      |           | 25  |     |   |
| 57928 | 1/4" x 20  |        |           |     |     | ● |
| 57929 | 5/16" x 18 | 9      | 25        | 30  | 105 |   |
| 57930 | 3/8" x 16  |        |           |     |     |   |
| 57931 | 7/16" x 14 | 11     | 30        | 55  |     |   |
| 57932 | 1/2" x 13  | 14     | 38        | 85  | 30  |   |
| 57933 | 9/16" x 12 |        |           |     |     |   |
| 57934 | 5/8" x 11  | 18     | 45        | 180 |     |   |
| 57935 | 3/4" x 10  |        |           |     | 11  |   |
| 57936 | 7/8" x 9   | 22     | 55        | 220 |     |   |
| 57937 | 1" x 8     |        |           |     |     |   |

DIN 223 EN 22568






**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

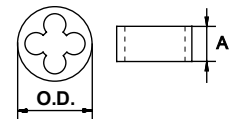
Material / Material / Matière

HSS-M2



**COJINETES ROSCA UNF / ROUND UNF THREAD DIES / FILIÈRES UNF / SCHNEIDEISEN UNF / FILIERE TONDE UNF / CAÇONETES ROSCA UNF / ПЛАШКИ СТАНДАРТА UNF**

| COD.  |  | A (mm) |  |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 57940 | Nº 2 x 64                                                                         | 5      | 16                                                                                | 15                                                                                | 216                                                                               | ●                                                                                   |
| 57941 | Nº 3 x 56                                                                         |        |                                                                                   |                                                                                   |                                                                                   |                                                                                     |
| 57942 | Nº 4 x 48                                                                         |        |                                                                                   |                                                                                   |                                                                                   |                                                                                     |
| 57943 | Nº 5 x 44                                                                         |        |                                                                                   |                                                                                   |                                                                                   |                                                                                     |
| 57944 | Nº 6 x 40                                                                         | 7      | 20                                                                                | 25                                                                                | 11                                                                                | ●                                                                                   |
| 57945 | Nº 8 x 36                                                                         |        |                                                                                   |                                                                                   |                                                                                   |                                                                                     |
| 57946 | Nº 10 x 32                                                                        | 9      | 25                                                                                | 30                                                                                | 105                                                                               | ●                                                                                   |
| 57947 | Nº 12 x 28                                                                        |        |                                                                                   |                                                                                   |                                                                                   |                                                                                     |
| 57948 | 1/4" x 28                                                                         |        |                                                                                   |                                                                                   |                                                                                   |                                                                                     |
| 57949 | 5/16" x 24                                                                        | 11     | 30                                                                                | 55                                                                                | 30                                                                                | ●                                                                                   |
| 57950 | 3/8" x 24                                                                         |        |                                                                                   |                                                                                   |                                                                                   |                                                                                     |
| 57951 | 7/16" x 20                                                                        | 14     | 38                                                                                | 85                                                                                | 11                                                                                | ●                                                                                   |
| 57952 | 1/2" x 20                                                                         |        |                                                                                   |                                                                                   |                                                                                   |                                                                                     |
| 57953 | 9/16" x 18                                                                        | 18     | 45                                                                                | 180                                                                               | 11                                                                                | ●                                                                                   |
| 57954 | 5/8" x 18                                                                         |        |                                                                                   |                                                                                   |                                                                                   |                                                                                     |
| 57955 | 3/4" x 16                                                                         | 22     | 55                                                                                | 220                                                                               | 11                                                                                | ●                                                                                   |
| 57956 | 7/8" x 14                                                                         |        |                                                                                   |                                                                                   |                                                                                   |                                                                                     |
| 57957 | 1" x 12                                                                           |        |                                                                                   |                                                                                   |                                                                                   |                                                                                     |








DIN 223 EN 22568

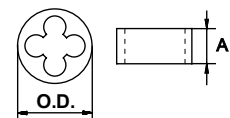
**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Material / Material / Matière

HSS-M2

**COJINETES ROSCA GAS (BSP) / ROUND GAS BSP THREAD DIES / FILIÈRES GAS (BSP) / SCHNEIDEISEN GAS (BSP) / FILIERE TONDE GAS (BSP) / CAÇONETES ROSCA GAS (BSP) / ПЛАШКИ СТАНДАРТА BSP**

| COD.  |  | A (mm) |  |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 57960 | 1/8" x 28                                                                           | 11     | 30                                                                                  | 55                                                                                  | 30                                                                                  | ●                                                                                     |
| 57961 | 1/4" x 19                                                                           | 10     | 38                                                                                  | 75                                                                                  |                                                                                     |                                                                                       |
| 57962 | 3/8" x 19                                                                           | 14     | 45                                                                                  | 150                                                                                 | 11                                                                                  | ●                                                                                     |
| 57963 | 1/2" x 14                                                                           |        |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| 57964 | 3/4" x 14                                                                           | 16     | 55                                                                                  | 200                                                                                 | 11                                                                                  | ●                                                                                     |
| 57965 | 1" x 11                                                                             | 18     | 65                                                                                  | 275                                                                                 |                                                                                     |                                                                                       |








DIN 5158

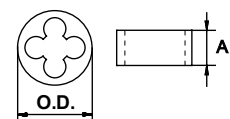
**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Material / Material / Matière

HSS-M2

**COJINETES ROSCA NPT / ROUND NPT THREAD DIES / FILIÈRES NPT / SCHNEIDEISEN NPT / FILIERE TONDE NPT / CAÇONETES ROSCA NPT / ПЛАШКИ СТАНДАРТА NPT**

| COD.  |  | A (mm) |  |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 57897 | 1/8" x 27                                                                           | 10     | 38                                                                                  | 75                                                                                  | 20                                                                                  | ●                                                                                     |
| 57898 | 1/4" x 18                                                                           | 15     |                                                                                     | 90                                                                                  |                                                                                     |                                                                                       |
| 57913 | 3/8" x 18                                                                           | 20     | 45                                                                                  | 160                                                                                 | 8                                                                                   | ●                                                                                     |
| 57914 | 1/2" x 14                                                                           |        |                                                                                     | 175                                                                                 |                                                                                     |                                                                                       |
| 57915 | 3/4" x 14                                                                           | 22     | 55                                                                                  | 220                                                                                 | 4                                                                                   | ●                                                                                     |
| 57916 | 1" x 11.5                                                                           | 25     | 65                                                                                  | 325                                                                                 |                                                                                     |                                                                                       |
| 57917 | 1.1/4" x 11.5                                                                       | 26     | 90                                                                                  | 400                                                                                 | 1                                                                                   | ●                                                                                     |
| 57918 | 1.1/2" x 11.5                                                                       |        |                                                                                     | 550                                                                                 |                                                                                     |                                                                                       |
| 57919 | 2" x 11.5                                                                           |        | 105                                                                                 | 650                                                                                 |                                                                                     |                                                                                       |



DIN 233

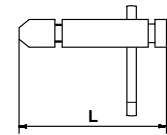
**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Material / Material / Matière

HSS-M2

**GIRAMACHOS DE CARRACA REVERSIBLE / REVERSIBLE TAP WRENCH / PORTE TARAUD RÉVERSIBLE À CLIQUET / KNARRE FÜR GEWINDEBOHRER / GIRAMASCHI CON CRICCO REVERSIBILE / DESANDADOR DE MACHOS COM ROQUETE / РЕВЕРСИВНЫЙ КЛЮЧ ДЛЯ МЕТЧИКОВ**

| COD.  | METRIC | WITHWORTH  | GAS (BSP) | L (mm) | g   |    |   |
|-------|--------|------------|-----------|--------|-----|----|---|
| 57830 | M3-M10 | 1/8"-3/8"  | -         | 85     | 190 | 20 |   |
| 57831 | M5-M12 | 7/32"-1/2" | 1/8"      | 100    | 290 | 14 |   |
| 57832 | M3-M10 | 1/8"-3/8"  | -         | 250    | 250 | 10 | ● |
| 57833 | M5-M12 | 7/32"-1/2" | 1/8"      | 300    | 445 |    |   |



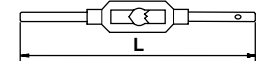
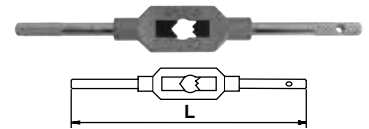
**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Material / Material / Matière

Acero / Steel / Acier

**GIRAMACHOS AJUSTABLE / ADJUSTABLE TAP WRENCH / PORTE TARAUD REGLABLE / VERSTELBARE WINDEISEN / GIRAMASCHI REGOLABILE / DESANDADOR DE MACHOS AJUSTÁVEL / КЛЮЧ ДЛЯ МЕТЧИКОВ**

| COD.  | METRIC  | WITHWORTH   | GAS (BSP) | NPT         | AF mm | L (mm) | g    |    |    |
|-------|---------|-------------|-----------|-------------|-------|--------|------|----|----|
| 57835 | M1-M8   | 1/16"-5/16" | -         | -           | 2-5   | 125    | 55   | 20 |    |
| 57836 | M1-M10  | 1/8"-3/8"   | -         | -           | 2-6   | 180    |      | 12 |    |
| 57837 | M3-M12  | 1/8"-1/2"   | 1/8"      | -           | 2-7   | 200    | 95   |    | 10 |
| 57838 | M4-M12  | 3/16"-5/8"  | 1/8"-3/8" | 1/8"        | 3-7   | 280    | 280  |    |    |
| 57839 | M5-M20  | 1/4"-3/4"   | 1/8"-1/2" | 1/8"-3/8"   | 4-11  | 375    |      | 6  | ●  |
| 57840 | M9-M27  | 1/2"-1"     | 1/8"-3/4" | 1/8"-1/2"   | 5-14  | 500    | 650  |    |    |
| 57841 | M13-M32 | 5/8"-1.1/4" | 1/4"-1"   | 1/4"-3/4"   | 5-18  | 750    | 900  |    |    |
| 57842 | -       | -           | -         | 1/4"-1"     | 9-24  | 1000   | 1000 |    | 4  |
| 57843 | -       | -           | -         | 1/2"-1.1/2" | 14-29 | 1250   | 1100 |    |    |
| 57844 | -       | -           | -         | 1/2"-2"     | 14-35 | 1500   | 1200 |    |    |



DIN 1814

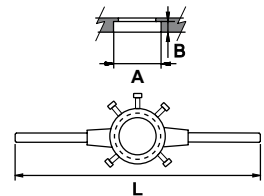
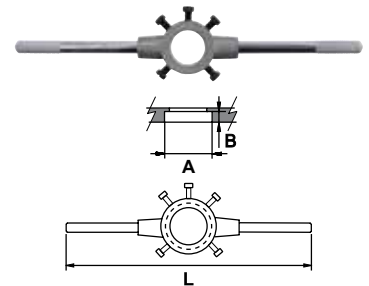
**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Material / Material / Matière

Acero + Zamak / Steel + Zamak / Acier + Zamak

**PORTACOJINETES / DIE HOLDER / PORTE-FILIÈRE / SCHNEIDEISENHALTER / PORTAFILIERE / PORTA ÇAÇONETES / ПЛАЗКОДЕРЖАТЕЛЬ**

| COD.  | METRIC    | WITHWORTH     | GAS (BSP) | A (mm) | B (mm) | L (mm) | g   |    |    |
|-------|-----------|---------------|-----------|--------|--------|--------|-----|----|----|
| 57970 | M1-M2,6   | 1/16"-3/32"   | -         | 16     | 5      | 160    | 50  |    |    |
| 57971 | M3-M4     | 1/8"-5/32"    | -         | 20     |        | 200    | 85  | 20 |    |
| 57972 | M4,5-M6   | 3/16"-1/4"    | -         |        | 7      |        |     |    |    |
| 57973 | M7-M9     | 5/16"         | 1/16"     | 25     | 9      | 225    | 115 |    | 12 |
| 57974 | M10-M11   | 3/8"-7/16"    | 1/8"      | 30     | 11     | 280    | 220 |    |    |
| 57975 | MF12-MF14 | -             | 1/4"      |        | 10     |        |     |    |    |
| 57976 | M12-M14   | 1/2"-9/16"    | -         | 38     |        | 315    | 325 |    |    |
| 57977 | MF16-MF20 | -             | 3/8"-1/2" |        | 14     |        |     | 6  |    |
| 57978 | M16-M20   | 5/8"-3/4"     | -         | 45     | 18     | 450    | 415 |    | ●  |
| 57979 | MF21-MF26 | -             | 5/8"-3/4" |        | 16     |        |     | 4  |    |
| 57980 | M22-M24   | 7/8"-1"       | -         | 55     | 22     | 560    | 500 |    |    |
| 57981 | MF27-MF36 | -             | 7/8"-1"   |        | 18     |        |     | 2  |    |
| 57966 | M27-M26   | 1.1/8"-1.3/8" | -         | 65     | 25     | 630    | 600 |    |    |
| 57967 | M39-M42   | 1.1/2"-1.5/8" | -         | 75     | 30     | 800    | 725 |    |    |
| 57968 | M45-M52   | 1.3/4"-2"     | -         | 90     | 36     | 900    | 800 |    | 1  |
| 57969 | M55-M62   | -             | 1.3/4"-2" | 105    | 22     | 1000   | 850 |    |    |



DIN 225 ISO 22568






**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Material / Material / Matière

Acero + Zamak / Steel + Zamak / Acier + Zamak

■ **KITS DE ROSCADO / THREADING KITS / KIT DE FILETAGE / SCHNEIDSÄTZE / KIT DI FILIERE / CONJUNTOS DE ROSCAGEM / КОМПЛЕКТЫ ДЛЯ НАРЕЗАНИЯ РЕЗЬБЫ**



| COD.         |  | COD. PCS.                                       |  | COD. PCS.                                       |  | COD. PCS.           |  | COD. PCS.                         |  |
|--------------|-----------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------|
| <b>57690</b> |                                                                                   |                                                 |                                                                                   |                                                 |                                                                                    |                     |                                                                                     |                                   | 800                                                                                 |
| <b>57691</b> | M3-M4-M5-M6-M8-M10-M12                                                            | 57701, 57702, 57703, 57704, 57706, 57708, 57710 | M3-M4-M5-M6-M8-M10-M12                                                            | 57846, 57847, 57848, 57849, 57851, 57853, 57856 | M3-M12+G                                                                           | 57837               | 25 x 9                                                                              | 57973                             | 1600                                                                                |
| <b>57692</b> | M6-M8-M10-M11-M12                                                                 | 57704, 57706, 57708, 57709, 57710               | M6-M8-M10-M11-M12                                                                 | 57849, 57851, 57853, 57854, 57856               | M4-M12+G                                                                           | 57838               | 25 x 9; 30 x 11; 38 x 14                                                            | 57973, 57974, 57976               | 2000                                                                                |
| <b>57693</b> | M6-M8-M10-M12-M14-M16-M18                                                         | 57704, 57706, 57708, 57710, 57711, 57712, 57713 | M6-M8-M10-M12-M14-M16-M18                                                         | 57849, 57851, 57853, 57856, 57858, 57859, 57860 | M3-M12 + G; M5-M20 + G                                                             | 57837, 57839        | 25 x 9; 38 x 14; 45 x 18                                                            | 57973, 57976, 57978               | 5600                                                                                |
| <b>57694</b> | BSW 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2"                                   | 57760, 57762, 57763, 57764, 57765, 57766, 57767 | BSW 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2"                                   | 57900, 57902, 57903, 57904, 57905, 57906, 57907 | M3-M10; M4-M12 + G; M3-M10 REV.                                                    | 57836, 57838, 57830 | 30 x 11; 38 x 14                                                                    | 57974, 57976                      | 4400                                                                                |
| <b>57695</b> | UNC 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", 3/4"                                    | 57788, 57789, 57790, 57791, 57792, 57794, 57795 | UNC 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", 3/4"                                    | 57928, 57929, 57930, 57931, 57932, 57934, 57935 | M1-M10; M4-M12 + G                                                                 | 57836, 57838        | 20 x 7; 25 x 9; 30 x 11; 38 x 14; 45 x 18                                           | 57972, 57973, 57974, 57976, 57978 | 8000                                                                                |
| <b>57696</b> | UNF 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", 3/4"                                    | 57808, 57809, 57810, 57811, 57812, 57814, 57815 | UNF 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", 3/4"                                    | 57948, 57949, 57950, 57951, 57952, 57954, 57955 | M1-M10; M5-M20 + G                                                                 | 57836, 57839        | 20 x 7; 25 x 9; 30 x 11; 38 x 10; 45 x 14                                           | 57972, 57973, 57974, 57975, 57977 |                                                                                     |
| <b>57697</b> | GAS (BSP) 1/8", 1/4", 3/8", 1/2", 3/4", 1"                                        | 57820, 57821, 57822, 57823, 57824, 57825        | GAS (BSP) 1/8", 1/4", 3/8", 1/2", 3/4", 1"                                        | 57960, 57961, 57962, 57963, 57964, 57965        | M1-M10; M5-M20 + G; M13-M32 + G                                                    | 57836, 57839, 57841 | 30 x 11; 38 x 10; 45 x 14; 55 x 16; 65 x 18                                         | 57974, 57975, 57977, 57979, 57981 | 14500                                                                               |





17

**HERRAMIENTA PARA TUBO**  
**PIPE TOOLS**  
**OUTILLAGE TUBE**  
**ROHR WERKZEUGE**  
**UTENSILI PER TUBI**  
**FERRAMENTA PARA TUBOS**  
**ТРУБНЫЙ ИНСТРУМЕНТ**





### Club de Inventores Españoles

Premio a la Mejor Idea en Herramientas

*Best Tool Award*

Prix a la Meilleure Idée en Outils



### Medalla

Salón Internacional de la Invención  
París 2007

### Medal

*International Inventors Competition*  
París 2007

### Medaille

*Salon International de l'Invention*  
París 2007



Premio Iberferr al Mejor Producto del Año  
2007

*Best Product Award by Iberferr Sectorial Magazine*  
2007

Prix Iberferr du Meilleur Produit de l'Année  
2007

La rapidez y facilidad de uso con una mano de la llave para tubo Mastergrip, con capacidad para tubos de medidas comprendidas entre 1/4" y 1.1/2" para la de 10", entre 1/2" y 2" en el caso de la de 14" y entre 3/4" y 3" para la de 18", ofrecen una sujeción ideal para empalmar con gran eficacia tubos roscados. Su especial diseño robusto permite ser empleado en trabajos pesados.

*The fast and easy one-handed operated Mastergrip provides perfect grip to fit pipes effective and efficiently. The special Heavy Duty design makes it ideal for the most demanding jobs, providing 1/4"-1.1/4" pipe capacity for the 10" version, 1/2" to 2" in the 14" version and 3/4" to 3" in the 18" version, provides also a ratchet function that makes threaded pipe fitting really efficient. Heavy duty type for the most demanding jobs.*

La rapidité et la facilité d'utilisation avec une seule main de la clé serre-tubes Mastergrip, avec une capacité pour les tubes selon des mesures comprises entre 1/4" et 1.1/2" pour celle de 10", entre 1/2" et 2" dans le cas de celle de 14" et entre 3/4" et 3" pour celle de 18", permettent une prise idéale pour raccorder avec une grande efficacité des tubes filetés. Sa conception spécialement robuste permet de l'utiliser pour des travaux durs.



1

Su exclusivo diseño geométrico de lengua y postizo con un dentado especial permiten un agarre perfecto.

*Designed with special teeth for the best pipe gripping effect.*

La geometría exclusiva de la mâchoire et du bras de levier, pourvus d'une denture spéciale, permet une prise parfaite du tube, tout en donnant un effet cliquet.

2

Mango ergonómico de fundición de precisión de inmejorable atractivo.

*Ergonomic handle in accurate casting make it unbeatably attractive.*

Manche ergonomique en fonte de précision, ayant un parfait attrait.

3

Postizo con chaveta para soportar esfuerzos en ambos sentidos.

*Heel jaw with sunk key to withstand efforts in both directions.*

Bras de levier avec un axe pour supporter des forces des deux côtés.

4

Fácil amarre del tubo con una sola mano.

*Easy one hand gripping.*

Prise aisée du tube avec une seule main.

5

Patentada.  
Patented.  
Brevetée.



1/4"



3/8"



1/2"



3/4"



1"



1.1/4"



1.1/2"



2"



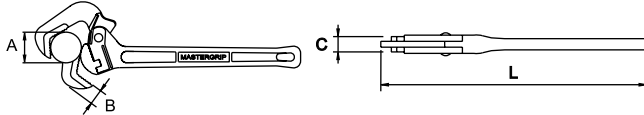
2.1/2"



3"

■ LLAVES PARA TUBO / PIPE WRENCHES / CLÉS SERRE-TUBES / EINHAND ROHRZANGE / GIRATUBI / CHAVES PARA TUBOS / ТРУБНЫЕ КЛЮЧИ

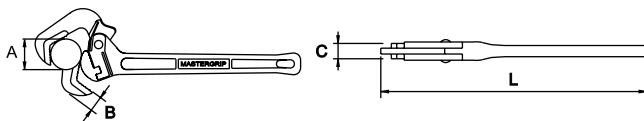
■ MASTERGRIP



| COD.  | L (inch) | A (inch)  | B (mm) | C (mm) | AF mm | Kg  |   |   |
|-------|----------|-----------|--------|--------|-------|-----|---|---|
| 61405 | 10       | 1/4-1.1/2 | 15     | 26     | 13-46 | 0,9 | 1 | • |
| 61406 | 14       | 1/2-2     | 23     | 33     | 17-50 | 1,6 |   |   |



● | Patente mundial / World patent / Brevet mondial



| COD.  | L (inch) | A (inch) | B (mm) | C (mm) | AF mm | Kg  |   |   |
|-------|----------|----------|--------|--------|-------|-----|---|---|
| 61407 | 18       | 3/4-3    | 29     | 50     | 17-80 | 2,5 | 1 | • |



● | GGG-W-651-E | Patente mundial / World patent / Brevet mondial

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Aluminio / Aluminum / Aluminium

■ REPUESTOS MASTERGRIP / MASTERGRIP SPARE PARTS / PIÈCES DE RECHANGE MASTERGRIP / MASTERGRIP ERSATZTEILE / RICAMBI MASTERGRIP / COMPONENTES MASTERGRIP / ЗАПАСНЫЕ ЧАСТИ ДЛЯ MASTERGRIP

| COD.  | Descripción /<br>Description / Description | L (inch) | COD.  | Descripción /<br>Description / Description | L (inch) | COD.  | Descripción /<br>Description / Description | L (inch) | COD.  | Descripción /<br>Description / Description | L (inch) |
|-------|--------------------------------------------|----------|-------|--------------------------------------------|----------|-------|--------------------------------------------|----------|-------|--------------------------------------------|----------|
| 80326 | Mordaza inferior /<br>Heel Jaw / Machoire  | 10       | 80327 | Lengua / Hook Jaw /<br>Bec                 | 10       | 80324 | Muelle / Spring /<br>Ressort               | 10       | 80325 | Eje / Axle / Axe                           | 10       |
| 80329 | inferieure                                 | 14       | 80330 |                                            | 14       | 80315 |                                            | 14       | 80320 |                                            | 14       |
| 80566 |                                            | 18       | 80567 |                                            | 18       | 80568 |                                            | 18       | 80569 |                                            | 18       |

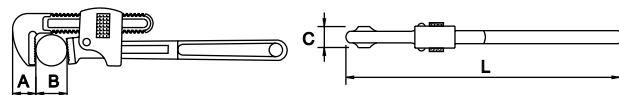
■ TUBO MÚLTIPLE PARA DEMO MASTERGRIP / MULTI-PIPE FOR MASTERGRIP DEMO / TUBE MULTIPLE POUR DÉMO MASTERGRIP / MULTI DEMO ROHR FÜR MASTERGRIP / TUBO MÚLTIPLO PARA DEMO MASTERGRIP / TUBO MÚLTIPLO PARA DEMO MASTERGRIP / ДЕМОНСТРАЦИОННАЯ ТРУБА ДЛЯ ТРУБНОГО КЛЮЧА MASTERGRIP

| COD.  | L (mm) | O.D. inch | Kg  |
|-------|--------|-----------|-----|
| 64691 | 750    | 1/2-2     | 1,8 |



■ LLAVES STILLSON / STILLSON PIPE WRENCHES / CLÉS STILLSON / STILLSON ROHRZANGE / GIRATUBI MODELLO STILLSON / CHAVES STILLSON / ТРУБНЫЕ КЛЮЧИ STILLSON

■ REFORZADA / REINFORCED / RENFORCEE / VERSTARK / RINFORZATA / REFORÇADA / УСИЛЕННЫЕ



| COD.  | L (inch) | A (mm) | B (inch) | C (mm) | Kg  |   |   |
|-------|----------|--------|----------|--------|-----|---|---|
| 61001 | 8        | 17     | 3/4      | 12     | 0,3 |   |   |
| 61002 | 10       | 23     | 1        | 16     | 0,6 |   |   |
| 61003 | 12       | 24     | 1.1/4    | 21     | 0,8 |   | • |
| 61004 | 14       | 28     | 1.1/2    | 24     | 1,1 | 1 |   |
| 61005 | 18       | 30     | 2        | 27     | 1,9 |   |   |
| 61006 | 24       | 39     | 2.1/2    | 30     | 3,1 |   |   |
| 61007 | 36       | 49     | 4        |        | 6,5 |   |   |



BS 3594-1 | GGG-W-00651d | UNE 16552

**REPUESTOS LLAVE STILLSON / STILLSON WRENCH SPARE PARTS / PIÈCES DE REMPLACEMENT CLÉ STILLSON / STILLSON ROHRZANGE ERSATZTEILEN / RICAMBI CHIAVI STILLSON / COMPONENTES DE CHAVE STILSON / ЗАПАСНЫЕ ЧАСТИ ДЛЯ STILLSON**



| COD.  | Descripción / Description / Description      | L (inch) |
|-------|----------------------------------------------|----------|
| 80047 | Juego muelles / Spring Set / Jeu de ressorts | 8        |
| 80048 |                                              | 10       |
| 80049 |                                              | 12       |
| 80050 |                                              | 14       |
| 80051 |                                              | 18       |
| 80052 |                                              | 24       |
| 80053 |                                              | 36       |

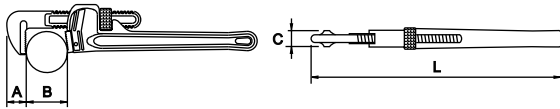


| COD.  | Descripción / Description / Description | L (inch) |
|-------|-----------------------------------------|----------|
| 80040 | Tuerca / Nut / Ecrou                    | 8        |
| 80041 |                                         | 10       |
| 80042 |                                         | 12       |
| 80043 |                                         | 14       |
| 80044 |                                         | 18       |
| 80045 |                                         | 24       |
| 80046 |                                         | 36       |



| COD.  | Descripción / Description / Description | L (inch) |
|-------|-----------------------------------------|----------|
| 80033 | Lengua / Hook Jaw / Bec                 | 8        |
| 80034 |                                         | 10       |
| 80035 |                                         | 12       |
| 80036 |                                         | 14       |
| 80037 |                                         | 18       |
| 80038 |                                         | 24       |
| 80039 |                                         | 36       |

**LLAVE HEAVY DUTY / HEAVY DUTY PIPE WRENCH / CLÉ SERRE-TUBES HEAVY DUTY / HEAVY DUTY ROHRZANGE / GIRATUBI MODELLO AMERICANO PESANTE / CHAVE HEAVY DUTY / ТРУБНЫЕ КЛЮЧИ ДЛЯ БОЛЬШИХ НАГРУЗОК**



| COD.  | L (inch) | L (mm) | A (mm) | B (inch) | C (mm) | Kg  |   |  |
|-------|----------|--------|--------|----------|--------|-----|---|--|
| 61299 | 6        | 160    | 13     | 3/4      | 11     | 0,2 |   |  |
| 61014 | 8        | 200    | 15     | 1        | 14     | 0,4 |   |  |
| 61015 | 10       | 270    | 20     | 1.1/2    | 17     | 0,8 |   |  |
| 61016 | 12       | 320    | 23     | 2        | 20     | 1,3 |   |  |
| 61017 | 14       | 360    | 25     | 2        | 23     | 1,7 |   |  |
| 61018 | 18       | 450    | 28     | 2.1/2    | 26     | 2,6 | 1 |  |
| 61019 | 24       | 600    | 33     | 3        | 29     | 4,5 |   |  |
| 61020 | 36       | 900    | 43     | 5        | 33     | 9,5 |   |  |
| 61021 | 48       | 1200   | 55     | 6        | 35     | 14  |   |  |
| 61045 | 60       | 1300   | 85     | 8        | 41     | 20  |   |  |



\* : Fabricada en fundición nodular de precisión APC / Made of accurate ductile casting APC / Fabriquée en fonte nodulaire de précision APC

Type II | Class A | GGG-W-651-E | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

60" Todas las llaves de 60" del mercado tienen una longitud inferior a su medida nominal por no ser una medida normalizada, con objeto de reducir su peso / Length of all existing 60" wrenches in the market is lower than the nominal size as they are not normalized, in order to reduce their weight / Sur le marché, toutes les clés de 60" ont une longueur inférieure que leur taille nominale puisque ce n'est pas une mesure standard, cela afin de réduire son poids

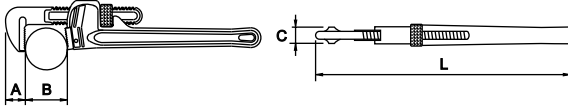
Lengua forjada móvil con efecto carraca / Floating forged hook for ratcheting action / Langue forgée mobile avec effet cliquet

Lengua graduada para un ajuste rápido / Graduated hook for quick adjustment / Langue graduée pour un réglage rapide

Mordaza inferior de aleación de acero reemplazable. Dientes sesgados, fresados con gran precisión para un óptimo agarre y mayor durabilidad / Replaceable, twice hardened alloy steel jaws. Precision-milled, biased teeth for optimum gripping and lifetime / Mâchoire inférieure d'alliage en acier remplaçable. Dents tordues, fraisées avec une grande précision pour une adhérence optimale et une plus grande durabilité

Sobrepasa las especificaciones de la norma americana GGG-W651e en un 180% / Exceeds US fed GGG-W-651e specifications by over 180% / Dépasse les caractéristiques de la norme américaine GGG-W651w à la hauteur de 180%

**LLAVE DE ALUMINIO / ALUMINIUM PIPE WRENCH / CLÉ SERRE-TUBES EN ALLIAGE D'ALUMINIUM / ALUMINIUM ROHRZANGE / GIRATUBI MODELLO AMERICANO IM ALLUMINIO / CHAVE ALUMINIO / АЛЮМИНИЕВЫЕ ТРУБНЫЕ КЛЮЧИ**



| COD.  | L (inch) | A (mm) | B (inch) | C (mm) | Kg  | Icon 1 | Icon 2 |
|-------|----------|--------|----------|--------|-----|--------|--------|
| 61044 | 10       | 20     | 1.1/2    | 17     | 0,5 |        |        |
| 61023 | 12       | 23     | 2        | 20     | 0,8 | 6      | ●      |
| 61024 | 14       | 25     |          | 23     | 0,9 | 3      |        |
| 61025 | 18       | 28     | 2.1/2    | 26     | 1,6 |        |        |
| 61026 | 24       | 33     | 3        | 29     | 2,5 | 1      | -      |
| 61027 | 36       | 43     | 5        | 33     | 5,0 |        |        |
| 61028 | 48       | 55     | 6        | 35     | 8,1 |        | ●      |



TITALUM® | Type II | Class C | GGG-W-651-E | Modelo registrado / Registered model / Modèle enregistré

**REPUESTOS LLAVE HEAVY DUTY / HEAVY DUTY WRENCH SPARE PARTS / PIECES DE CHANGE CLÉ HEAVY DUTY / HEAVY DUTY ROHRZANGE ERSATZTEILEN / RICAMBI CHIAVI HEAVY DUTY / COMPONENTES DE CHAVE HEAVY DUTY / ЗАПАСНЫЕ ЧАСТИ ДЛЯ КЛЮЧЕЙ ДЛЯ БОЛЬШИХ НАГРУЗОК**



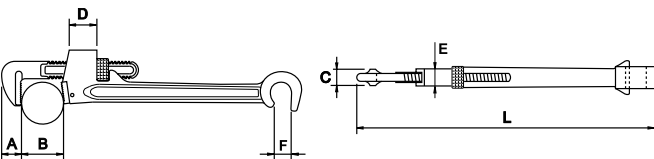
| COD.  | Descripción / Description / Description      | L (inch) |
|-------|----------------------------------------------|----------|
| 85085 |                                              | 6        |
| 81022 |                                              | 8        |
| 81023 |                                              | 10       |
| 81024 |                                              | 12       |
| 81025 | Juego muelles / Spring Set / Jeu de ressorts | 14       |
| 81026 |                                              | 18       |
| 81027 |                                              | 24       |
| 81028 |                                              | 36       |
| 81031 |                                              | 48       |
| 81674 |                                              | 60       |

| COD.  | Descripción / Description / Description | L (inch) |
|-------|-----------------------------------------|----------|
| 85083 |                                         | 6        |
| 81015 |                                         | 8        |
| 81016 |                                         | 10       |
| 81017 |                                         | 12       |
| 81018 | Tuerca / Nut / Ecrou                    | 14       |
| 81019 |                                         | 18       |
| 81020 |                                         | 24       |
| 81021 |                                         | 36       |
| 81030 |                                         | 48       |
| 81672 |                                         | 60       |

| COD.  | Descripción / Description / Description           | L (inch) |
|-------|---------------------------------------------------|----------|
| 85084 |                                                   | 6        |
| 81008 |                                                   | 8        |
| 81009 |                                                   | 10       |
| 81010 |                                                   | 12       |
| 81011 | Mordaza inferior / Heel Jaw / Machoire inférieure | 14       |
| 81012 |                                                   | 18       |
| 81013 |                                                   | 24       |
| 81014 |                                                   | 36       |
| 81029 |                                                   | 48       |
| 81673 |                                                   | 60       |

| COD.  | Descripción / Description / Description | L (inch) |
|-------|-----------------------------------------|----------|
| 85082 |                                         | 6        |
| 81001 |                                         | 8        |
| 81002 |                                         | 10       |
| 81003 |                                         | 12       |
| 81004 | Lengua / Hook Jaw / Bec                 | 14       |
| 81005 |                                         | 18       |
| 81006 |                                         | 24       |
| 81007 |                                         | 36       |
| 81000 |                                         | 48       |
| 81671 |                                         | 60       |

**LLAVE REFINERÍA PARA TUBO Y VÁLVULAS / REFINERY PIPE AND VALVE WRENCH / CLÉ DE RAFFINERIE POUR TUBES ET VANNES / LEITUNG UND VENTIL SCHLÜSSEL F/ RAFFINERIE / GIRATUBO PER RAFFINERIA E VALVOLE / CHAVE DE REFINARIA PARA TUBO E VÁLVULAS / КОМБИНИРОВАННЫЙ ТРУБНЫЙ КЛЮЧ С МОЛОТКОМ И УХОМ ДЛЯ ЗАТЯЖКИ ВЕНТИЛЕЙ**

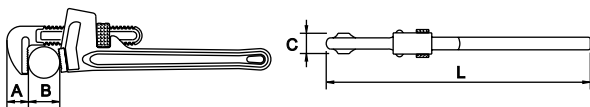


| COD.  | L (inch) | L (mm) | A (mm) | B (inch)  | C (mm) | D (mm) | E (mm) | F (mm) | F (inch) | Kg  | Icon 1 | Icon 2 |
|-------|----------|--------|--------|-----------|--------|--------|--------|--------|----------|-----|--------|--------|
| 57580 | 8        | 250    | 15     | 1/8-1     | 14     | 27     | 17     | 20     | 3/4      | 0,5 |        |        |
| 57581 | 10       |        | 20     | 1/8-1.1/2 | 17     | 32     | 20     | 13     | 1/2      | 0,8 | 1      | ●      |
| 57582 | 12       | 300    | 22     |           | 20     |        | 22     |        |          | 1,0 |        |        |



Type II | Class A | GGG-W-651-E

**RAP**

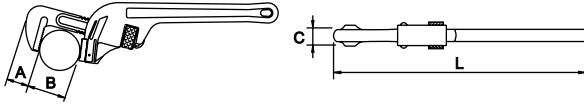


| COD.  | L (inch) | A (mm) | B (inch) | C (mm) | Kg  | Icon 1 | Icon 2 |
|-------|----------|--------|----------|--------|-----|--------|--------|
| 61376 | 10       | 20     | 1.1/2    | 17     | 0,9 | 6      | ●      |



Type II | Class A | GGG-W-651-E

**LLAVE HEAVY DUTY CURVA / OFFSET HEAVY DUTY PIPE WRENCH / CLÉ SERRE-TUBES HEAVY DUTY COUDEE / GEKRÖPFTE ROHRZANGE / GIRATUBI MODELLO AMERICANO CURVO / CHAVE HEAVY DUTY INCLINADA / ИЗОГНУТЫЕ ТРУБНЫЕ КЛЮЧИ ДЛЯ БОЛЬШИХ НАГРУЗОК**

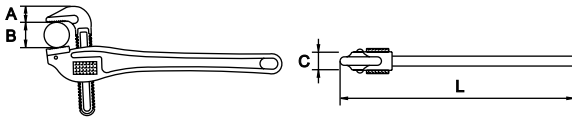


| COD.  | L (inch) | A (mm) | B (inch) | C (mm) | Kg   | Icon | Icon |
|-------|----------|--------|----------|--------|------|------|------|
| 61029 | 8        | 16     | 1        | 20     | 0,35 |      |      |
| 61030 | 10       | 20     | 1.1/2    | 23     | 0,80 | 6    |      |
| 61031 | 12       | 22     | 2        | 26     | 1,30 |      |      |
| 61032 | 14       | 25     | 2        | 29     | 1,54 | 5    |      |
| 61033 | 18       | 27     | 2.1/2    | 33     | 2,30 | 3    |      |
| 61034 | 24       | 31     | 3        | 35     | 4,0  | 1    |      |



Type VI | GGG-W-651-E

**PICO PATO 90° / OFFSET PIPE WRENCH 90° / CLÉ SERRE-TUBE 90° / ROHRZANGE 90° / GIRATUBI 90° / BICO PATO 90° / ИЗОГНУТЫЕ ТРУБНЫЕ КЛЮЧИ ДЛЯ БОЛЬШИХ НАГРУЗОК 90°**

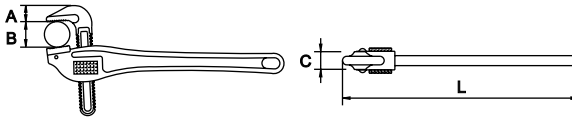


| COD.  | L (inch) | A (mm) | B (inch) | C (mm) | Kg   | Icon | Icon |
|-------|----------|--------|----------|--------|------|------|------|
| 61377 | 14       | 25     | 2        | 23     | 1,60 | 2    |      |
| 61378 | 18       | 29     | 2.1/2    | 26     | 2,70 | 1    |      |



Type II | Class A | GGG-W-651-E

**PICO PATO DE ALUMINIO 90° / ALUMINIUM OFFSET PIPE WRENCH 90° / CLÉ SERRE-TUBE 90° EN ALLIAGE D'ALUMINIUM / ROHRZANGE 90° ALUMINIUM / GIRATUBI 90° IM ALLUMINIO / BICO PATO ALUMINIO 90° / АЛЮМИНИЕВЫЕ ИЗОГНУТЫЕ ТРУБНЫЕ КЛЮЧИ 90°**



| COD.  | L (inch) | A (mm) | B (inch) | C (mm) | Kg  | Icon | Icon |
|-------|----------|--------|----------|--------|-----|------|------|
| 61363 | 14       | 25     | 2        | 28     | 0,8 | 6    |      |
| 61364 | 18       | 28     | 2.1/2    | 39     | 1,2 | 2    |      |
| 61365 | 24       | 34     | 3        | 42     | 2,2 | 1    |      |



TITALUM® | Type II | Class C | GGG-W-651-E

**REPUESTOS LLAVE PICO PATO 90° / OFFSET PIPE WRENCH 90° SPARE PART / PIÈCES DE RECHANGE CLÉ SERRE-TUBE 90° / GEKRÖPFTE ROHRZANGE 90° ERSATZTEIL / RICAMBI GIRATUBI 90° / ACESSÓRIOS DE REPOSIÇÃO PARA CHAVE BICO DE PATO 90° / ЗАПАСНЫЕ ЧАСТИ ДЛЯ КОЛЕНЧАТОГО ТРУБНОГО КЛЮЧА**



| COD.  | Descripción / Description / Description      | L (inch) |
|-------|----------------------------------------------|----------|
| 87096 | Juego Muelles / Spring set / Jeu de ressorts | 14       |
| 87097 |                                              | 18       |
| 87098 |                                              | 24       |

| COD.  | Descripción / Description / Description | L (inch) |
|-------|-----------------------------------------|----------|
| 87099 | Tuerca / Nut / Ecrou                    | 14       |
| 87100 |                                         | 18       |
| 87101 |                                         | 24       |

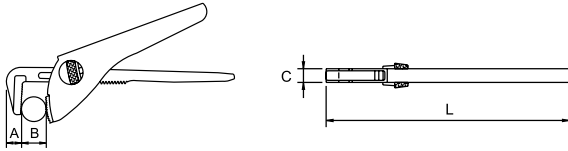
| COD.  | Descripción / Description / Description           | L (inch) |
|-------|---------------------------------------------------|----------|
| 87102 | Mordaza inferior / Heel jaw / Mâchoire inférieure | 14       |
| 87103 |                                                   | 18       |
| 87104 |                                                   | 24       |

| COD.  | Descripción / Description / Description | L (inch) |
|-------|-----------------------------------------|----------|
| 87105 | Lengua / Hook jaw / Bec                 | 14       |
| 87106 |                                         | 18       |
| 87107 |                                         | 24       |

**KITS**

| COD.  | L (inch) | PCS. | COD. PCS.                  |
|-------|----------|------|----------------------------|
| 88962 | 14       |      | 87096, 87099, 87102, 87105 |
| 88963 | 18       | 4    | 87097, 87100, 87103, 87106 |
| 88964 | 24       |      | 87098, 87101, 87104, 87107 |

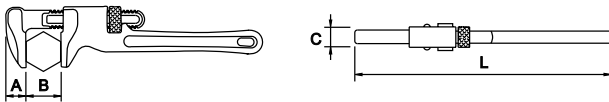
**LLAVE PARA TUBO TIPO BLITZ / BLITZ TYPE PIPE WRENCH / CLÉ SERRE-TUBE TYPE BLITZ / BLITZ ROHRZANGE / GIRATUBI MODELLO BLITZ / CHAVE PARA TUBO MODELO BLITZ / ТРУБНЫЙ КЛЮЧ ТИП-BLITZ**



| COD.  | L (mm) | A (mm) | B (inch) | C (mm) | Kg  |   |  |
|-------|--------|--------|----------|--------|-----|---|--|
| 61465 | 175    | 19     | 1        | 12     | 0,3 |   |  |
| 61467 | 275    | 21     | 2        | 16     | 0,8 | 6 |  |
| 61469 | 350    | 24     | 3        | 17     | 1,1 |   |  |



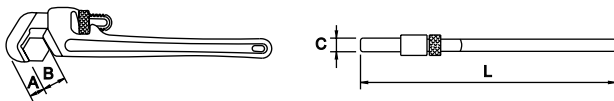
**LLAVE SPUD / SPUD PIPE WRENCH / CLÉ SPUD / VERSTELBARE ROHRZANGE / GIRATUBI MODELLO SPUD / CHAVE PARA TUBO SPUD / ТРУБНЫЙ КЛЮЧ С ПАРАЛЛЕЛЬНЫМИ ГУБКАМИ**



| COD.  | L (inch) | A (mm) | B (inch) | C (mm) | Kg  |   |  |
|-------|----------|--------|----------|--------|-----|---|--|
| 61369 | 12       | 24     | 2.5/8    | 16     | 1,2 | 6 |  |



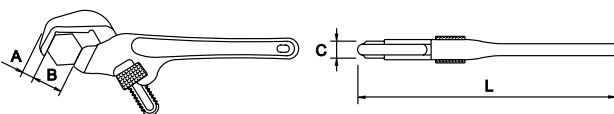
**LLAVE HEXAGONAL / HEX PIPE WRENCH / CLÉ HEXAGONALE / SECHSKANT ROHRZANGE / GIRATUBI HEXAGONALE / CHAVE PARA TUBO HEXAGONAL / ТРУБНЫЙ КЛЮЧ ДЛЯ ШЕСТИГРАННИКОВ**



| COD.  | L (inch) | A (mm) | B (inch)  | C (mm) | Kg  |   |  |
|-------|----------|--------|-----------|--------|-----|---|--|
| 61368 | 14.1/2   | 29     | 5/8-1.1/4 | 14     | 2,1 | 3 |  |



**LLAVE HEXAGONAL CURVA / HEXAGONAL OFFSET PIPE WRENCH / CLÉ HEXAGONALE COUDEE / GEKRÖPFTE ROHRZANGE / GIRATUBI ESAGONALE CURVO / CHAVE HEXAGONAL INCLINADA / ИЗОГНУТЫЙ ТРУБНЫЙ КЛЮЧ ДЛЯ ШЕСТИГРАННИКОВ**



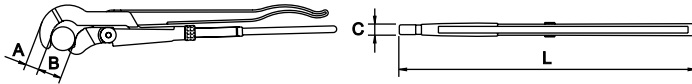
| COD.  | L (inch) | A (mm) | B (inch)    | C (mm) | Kg  |   |  |
|-------|----------|--------|-------------|--------|-----|---|--|
| 61367 | 9.1/2    | 14     | 1.1/8-2.5/8 | 9,5    | 0,7 | 6 |  |



**LLAVES SUECAS / SWEDISH PIPE WRENCHES / CLÉS SERRE-TUBES SUEDOISES / ECKROHRZANGE / GIRATUBI MOD. SUEDESE / CHAVES PARA TUBOS SUECAS / ТРУБНЫЕ ШВЕДСКИЕ КЛЮЧИ**

**SERIE MASTER CR-V**

**LLAVE SUECA S 45° / SWEDISH PIPE WRENCH S 45° / CLÉ SERRE-TUBES SUEDOISE S 45° / ECKROHRZANGE S 45° / GIRATUBI MOD. SVEDESE S 45° / CHAVE SUECA S 45° / ТРУБНЫЙ ШВЕДСКИЙ КЛЮЧ S 45°**



| COD.  | L (mm) | A (mm) | B (inch) | C (mm) | Kg  |   |   |
|-------|--------|--------|----------|--------|-----|---|---|
| 61010 | 230    | 15     | 1/2      | 8,8    | 0,4 | 4 |   |
| 61011 | 330    | 20     | 1        | 13     | 0,8 | 6 | ● |
| 61012 | 420    | 26     | 1.1/2    | 14     | 1,4 | 4 |   |
| 61013 | 550    | 28     | 2        | 16     | 2,4 | 2 |   |
| 61022 | 650    | 35     | 3        | 19     | 4,2 |   |   |

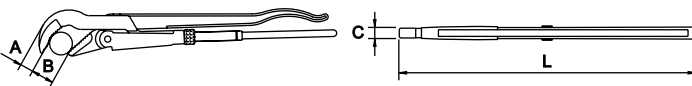
DIN 5234 | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**LLAVE SUECA 45° / SWEDISH PIPE WRENCH 45° / CLÉ SERRE-TUBES SUEDOISE 45° / ECKROHRZANGE 45° / GIRATUBI MOD. SVEDESE 45° / CHAVE SUECA 45° / ТРУБНЫЙ ШВЕДСКИЙ КЛЮЧ 45°**



| COD.  | L (mm) | A (mm) | B (inch) | C (mm) | Kg  |   |   |
|-------|--------|--------|----------|--------|-----|---|---|
| 61040 | 230    | 18     | 1/2      | 8,8    | 0,4 | 4 |   |
| 61041 | 330    | 24     | 1        | 13     | 0,7 | 6 | ● |
| 61042 | 450    | 27     | 1.1/2    | 14     | 1,4 | 4 |   |
| 61043 | 550    | 33     | 2        | 16     | 2,3 | 2 |   |

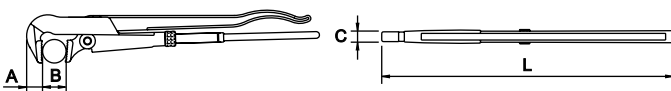
DIN 5234 | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**LLAVE SUECA 90° / SWEDISH PIPE WRENCH 90° / CLÉ SERRE-TUBES SUEDOISE 90° / ECKROHRZANGE 90° / GIRATUBI MOD. SVEDESE 90° / CHAVE SUECA 90° / ТРУБНЫЙ ШВЕДСКИЙ КЛЮЧ 90°**



| COD.  | L (mm) | A (mm) | B (inch) | C (mm) | Kg  |   |   |
|-------|--------|--------|----------|--------|-----|---|---|
| 61046 | 320    | 18     | 1        | 15     | 0,7 | 6 | ● |
| 61047 | 430    | 20     | 1.1/2    | 18     | 1,3 | 4 |   |
| 61048 | 550    | 25     | 2        | 20     | 2,3 |   |   |
| 61049 | 600    | 30     | 3        | 20     | 3,0 | 2 |   |
| 61051 | 750    | 34     | 4        | 31     | 5,3 | 1 |   |

DIN 5234 | Modelo registrado / Registered model / Modèle enregistré

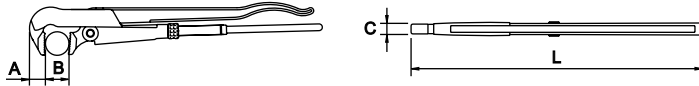
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V





LLAVE SUECA BOCAS DE PLÁSTICO / FITTINGS WRENCH / MACHOIRES EN PLASTIQUE / ECKROHRZANGE MIT KUNSTSTOFFBACKEN / CON GANASCE IN PLASTICA / CHAVE SUECA BOCAS DE PLASTICO / КЛЮЧ ДЛЯ ФАСОННЫХ ЧАСТЕЙ



| COD.  | L (mm) | A (mm) | B (inch) | C (mm) | Kg  |   |   |       |
|-------|--------|--------|----------|--------|-----|---|---|-------|
| 61050 | 310    | 21     | 1        | 9,5    | 0,8 | 6 | ● | 64257 |

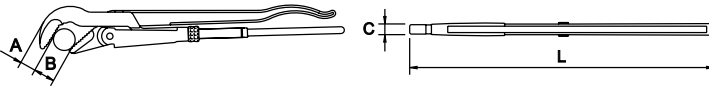
DIN 5234 I Modelo registrado / Registered model / Modèle enregistré

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V



LLAVE SUECA BOCAS RECTAS / SWEDISH PIPE WRENCH STRAIGHT JAWS / CLÉ SERRE-TUBES SUEDOISE / ECKROHRZANGE / GIRATUBI MOD. SUEDESE / CHAVE SUECA RECTA / ТРУБНЫЙ ШВЕДСКИЙ КЛЮЧ С ПРЯМЫМИ ГУБКАМИ



| COD.  | L (mm) | A (mm) | B (inch) | C (mm) | Kg  |   |   |  |
|-------|--------|--------|----------|--------|-----|---|---|--|
| 60963 | 320    | 24     | 1        | 13     | 0,7 | 6 | ● |  |
| 60964 | 420    | 27     | 1.1/2    | 14     | 1,4 | 4 | - |  |

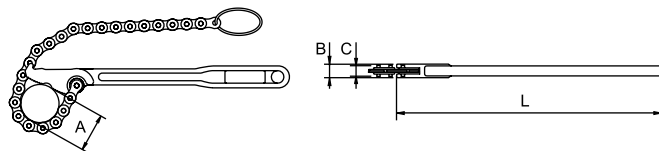
DIN 5234 I Modelo registrado / Registered model / Modèle enregistré

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V



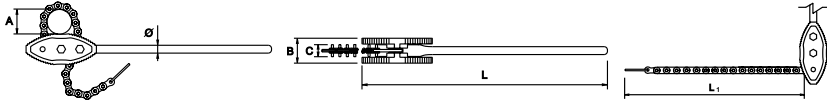
LLAVE DE CADENA REVERSIBLE / REVERSIBLE CHAIN PIPE WRENCH / CLÉ À CHAÎNE RÉVERSIBLE / KETTENROHRZANGE / CHIAVE A CATENA REVERSIBILE / CHAVE CORRENTE REVERSIVEL / РЕВЕРСИВНЫЙ ЦЕПНОЙ КЛЮЧ



| COD.  | L (mm) | L (inch) | A (inch) | B (mm) | C (mm) | Kg  |   |       |
|-------|--------|----------|----------|--------|--------|-----|---|-------|
| 61035 | 300    | 12       | 4        | 20     | 20     | 0,8 | 6 | 64038 |



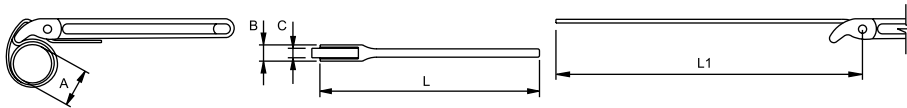
**LLAVE DE CADENA REVERSIBLE REFORZADA / HEAVY DUTY REVERSIBLE CHAIN PIPE WRENCH / CLÉ À CHAÎNE RÉVERSIBLE RENFORCÉE / VERSTÄRKT  
 KETTENROHRZANGE / CHIAVE A CATENA REVERSIBILE RINFORZATA / CHAVE CORRENTE REVERSIVEL REFORÇADA / РЕВЕРСИВНЫЙ ЦЕПНОЙ КЛЮЧ ДЛЯ  
 БОЛЬШИХ НАГРУЗОК**



| COD.  | L (mm) | L1 (mm) | A (inch) | B (mm) | C (mm) | Kg  |   |       |
|-------|--------|---------|----------|--------|--------|-----|---|-------|
| 57090 | 700    | 480     | 2.1/2    | 50     | 22     | 3,8 |   | 64760 |
| 61036 | 900    | 750     | 4        | 65     | 22     | 8,2 |   | 64081 |
| 57091 | 950    | 600     | 4        |        |        | 7,0 |   | 64082 |
| 61037 | 1000   | 900     | 6        | 70     | 36     | 9,5 | 1 | 64083 |
| 57092 | 1100   | 800     | 6        |        |        | 8,3 |   |       |
| 61038 | 1200   | 1050    | 8        | 70     | 36     | 13  |   | 64128 |
| 57093 | 1300   | 950     | 8        |        |        | 14  |   | 64129 |
| 61039 | 1400   | 1200    | 10       | 70     | 36     | 17  |   | 64906 |
| 57094 | 1400   | 1350    | 12       |        |        | 18  |   | 64907 |
| 61139 | 1600   | 1500    | 16       | 70     | 36     | 21  |   |       |
| 62050 |        | 2000    | 18       |        |        | 23  |   |       |
| 57095 | 2200   | 1950    | 18       | 70     | 36     | 21  |   |       |
| 62051 | 1600   | 2600    | 20       |        |        | 24  |   |       |



**LLAVE DE CORREA / STRAP WRENCH / CLÉ À SANGLE / GURTRÖHRZANGE / GIRATUBI A NASTRO / CHAVE DE CORREIA / РЕМШКОВЫЙ КЛЮЧ**



| COD.  | L (mm) | L (inch) | L1 (mm) | A (inch) | B (mm) | C (mm) | Kg  |   |   |       |
|-------|--------|----------|---------|----------|--------|--------|-----|---|---|-------|
| 61480 | 300    | 12       | 450     | 3        | 43     | 27     | 0,3 | 6 | ● | 64035 |
| 61481 |        |          | 1000    | 8        |        |        | 0,4 |   |   | 64036 |
| 61482 |        |          | 1200    | 12       |        |        | 0,4 |   |   | 63960 |



**TERRAJAS AJUSTABLES / ADJUSTABLE THREADERS / FILIÈRES AJUSTABLES / VERSTELLBARE GEWINDESCHNEIDKLUPPE / FILIERA REGOLABILE / TARRACHAS  
 AJUSTAVEIS / РЕГУЛИРУЕМАЯ РЕЗЬБОНАРЕЗКА**

**KITS 1/4" - 2"**






| COD.  |      | O.D.<br>inch | Kg |   |                            |
|-------|------|--------------|----|---|----------------------------|
| 63160 | BSPT | 1/4-2        | 10 | 1 | 64338, 64339, 64340, 64341 |
| 63161 |      | 1/2-2        |    |   | 64339, 64340, 64341        |
| 63162 | NPT  | 1/4-2        |    |   | 64342, 64343, 64344, 64345 |
| 63163 |      | 1/2-2        |    |   | 64343, 64344, 64345        |



**PEINES / DIES / PEIGNES / SCHNEIDBACKEN / PETTINI / SAÇONETES / ГРЕБЕНКИ**













| COD.  |      | O.D.<br>inch | Kg  |   |       |
|-------|------|--------------|-----|---|-------|
| 64338 | BSPT | 1/4-3/8      | 0,4 | 1 | 64342 |
| 64339 |      | 1/2-3/4      |     |   | 64343 |
| 64340 |      | 1-1.1/4      |     |   | 64344 |
| 64341 |      | 1.1/2-2      |     |   | 64345 |
|       | NPT  | 1/4-3/8      | 0,4 | 1 | 64342 |
|       |      | 1/2-3/4      |     |   | 64343 |
|       |      | 1-1.1/4      |     |   | 64344 |
|       |      | 1.1/2-2      |     |   | 64345 |

■ KITS 1.1/2" - 4"







| COD.  |  |  O.D.<br>inch |  Kg |  |  |
|-------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 63164 | BSPT                                                                              | 1.1/2-4                                                                                        | 22                                                                                   | 1                                                                                 | 64346, 64347, 64348                                                               |
| 63165 |                                                                                   | 2.1/2-4                                                                                        | 21                                                                                   |                                                                                   | 64347, 64348                                                                      |
| 63166 | NPT                                                                               | 1.1/2-4                                                                                        | 22                                                                                   |                                                                                   | 64349, 64350, 64351                                                               |
| 63167 |                                                                                   | 2.1/2-4                                                                                        | 21                                                                                   |                                                                                   | 64350, 64351                                                                      |









■ PEINES / DIES / PEIGNES / SCHNEIDBACKEN / PETTINI / CAÇONETES / ГРЕБЕНКИ







| COD.  |  |  O.D.<br>inch |  Kg |  |  | COD.    |  |  O.D.<br>inch |  Kg |  |  |
|-------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 64346 | BSPT                                                                              | 1.1/2-2                                                                                        | 0,9                                                                                  | 1                                                                                 |  | 64349   | NPT                                                                               | 1.1/2-2                                                                                          | 0,9                                                                                    | 1                                                                                   |  |
| 64347 |                                                                                   | 2.1/2-3                                                                                        |                                                                                      |                                                                                   |                                                                                   | 2.1/2-3 |                                                                                   |                                                                                                  |                                                                                        |                                                                                     |                                                                                     |
| 64348 |                                                                                   | 3.1/2-4                                                                                        |                                                                                      |                                                                                   |                                                                                   | 3.1/2-4 |                                                                                   |                                                                                                  |                                                                                        |                                                                                     |                                                                                     |







■ TERRAJA DE CABEZAS INTERCAMBIABLES / DROP HEADS THREADERS / FILIÈRES A TÊTES INTERCHANGEABLES / SET GEWINDESCHNEIDKLUPPEN / FILIERE PER TUBI / TARRACHAS DE CABEÇAS INTERMUTAVEIS / РЕЗЬБОНАРЕЗНОЙ НАБОР

| COD.  |  |  O.D.<br>inch |  Kg |  |  |  |
|-------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 63020 | BSPT                                                                              | 1/4-1.1/4                                                                                      | 7,5                                                                                  | 59018, 59019, 63003, 63004, 63005, 63006                                          | 63000                                                                             | 51000                                                                               |
| 63021 |                                                                                   | 3/8-1.1/4                                                                                      | 7,0                                                                                  | 59019, 63003, 63004, 63005, 63006                                                 |                                                                                   |                                                                                     |
| 63022 |                                                                                   | 1/2-1.1/4                                                                                      | 6,5                                                                                  | 63003, 63004, 63005, 63006                                                        |                                                                                   |                                                                                     |
| 63023 |                                                                                   | 1/4-1                                                                                          | 5,9018, 59019, 63003, 63004, 63005                                                   |                                                                                   |                                                                                   |                                                                                     |
| 63024 |                                                                                   | 3/8-1                                                                                          | 6,0                                                                                  | 59019, 63003, 63004, 63005                                                        |                                                                                   |                                                                                     |
| 63025 | 1/2-1                                                                             | 5,5                                                                                            | 63003, 63004, 63005                                                                  |                                                                                   |                                                                                   |                                                                                     |



















| COD.  |  |  O.D.<br>inch |  Kg |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 63026 | NPT                                                                                 | 1/4-1.1/4                                                                                        | 7,5                                                                                    | 59020, 59021, 63013, 63014, 63015, 63016                                            | 63000                                                                               | 51000                                                                                 |
| 63027 |                                                                                     | 3/8-1.1/4                                                                                        | 7,0                                                                                    | 59021, 63013, 63014, 63015, 63016                                                   |                                                                                     |                                                                                       |
| 63028 |                                                                                     | 1/2-1.1/4                                                                                        | 6,5                                                                                    | 63013, 63014, 63015, 63016                                                          |                                                                                     |                                                                                       |
| 63029 |                                                                                     | 1/4-1                                                                                            | 5,9020, 59021, 63013, 63014, 63015                                                     |                                                                                     |                                                                                     |                                                                                       |
| 63030 |                                                                                     | 3/8-1                                                                                            | 6,0                                                                                    | 59021, 63013, 63014, 63015,                                                         |                                                                                     |                                                                                       |
| 63031 | 1/2-1                                                                               | 5,5                                                                                              | 63013, 63014, 63015                                                                    |                                                                                     |                                                                                     |                                                                                       |

| COD.  |  |  O.D.<br>inch |  Kg |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 63036 | BSPT                                                                                | 1.1/4-2                                                                                          | 9,8                                                                                    | 63007, 63008, 63009                                                                 | 63010                                                                               | 50002                                                                                 |
| 63037 |                                                                                     | 1.1/2-2                                                                                          | 8,4                                                                                    | 63008, 63009                                                                        |                                                                                     |                                                                                       |

| COD.  |  |  O.D.<br>inch |  Kg |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 63038 | NPT                                                                                 | 1.1/4-2                                                                                          | 9,8                                                                                    | 63017, 63018, 63019                                                                 | 63010                                                                               | 50002                                                                                 |
| 63039 |                                                                                     | 1.1/2-2                                                                                          | 8,4                                                                                    | 63018, 63019                                                                        |                                                                                     |                                                                                       |









| COD.         |  |  O.D.<br>inch |  Kg |  |  |  |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>63134</b> | BSPT                                                                              | 1/4-2                                                                                          | 14                                                                                   | 59018, 59019, 63003, 63004, 63005, 63006, 63008, 63009                            |  |  |
| <b>63133</b> |                                                                                   | 3/8-2                                                                                          |                                                                                      | 59019, 63003, 63004, 63005, 63006, 63008, 63009                                   |                                                                                   |                                                                                     |
| <b>63132</b> |                                                                                   | 1/2-2                                                                                          |                                                                                      | 63003, 63004, 63005, 63006, 63008, 63009                                          |                                                                                   |                                                                                     |







| COD.         |  |  O.D.<br>inch |  Kg |  |  |  |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>63139</b> | NPT                                                                               | 1/4-2                                                                                          | 14                                                                                   | 59020, 59021, 63013, 63014, 63015, 63016, 63018, 63019                            |  |  |
| <b>63138</b> |                                                                                   | 3/8-2                                                                                          |                                                                                      | 59021, 63013, 63014, 63015, 63016, 63018, 63019                                   |                                                                                   |                                                                                     |
| <b>63137</b> |                                                                                   | 1/2-2                                                                                          |                                                                                      | 63013, 63014, 63015, 63016, 63018, 63019                                          |                                                                                   |                                                                                     |



### ■ CABEZAS / HEADS / TÊTES / SCHNEIDKÖPFE / TESTE / CABEÇAS / СМЕННЫЕ БОЙКИ







| COD.         |  |  O.D.<br>inch |  Kg |  |  |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>59018</b> | BSPT                                                                              | 1/4                                                                                            | 0,6                                                                                  | 1                                                                                 |  |
| <b>59019</b> |                                                                                   | 3/8                                                                                            |                                                                                      |                                                                                   |                                                                                     |
| <b>63003</b> |                                                                                   | 1/2                                                                                            |                                                                                      |                                                                                   |                                                                                     |
| <b>63004</b> |                                                                                   | 3/4                                                                                            |                                                                                      |                                                                                   |                                                                                     |
| <b>63005</b> |                                                                                   | 1                                                                                              |                                                                                      |                                                                                   |                                                                                     |
| <b>63006</b> |                                                                                   | 1.1/4                                                                                          |                                                                                      |                                                                                   |                                                                                     |









| COD.         |  |  O.D.<br>inch |  Kg |  |  |
|--------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>63007</b> | BSPT                                                                               | 1.1/4                                                                                           | 1,5                                                                                   | 1                                                                                  |  |
| <b>63008</b> |                                                                                    | 1.1/2                                                                                           | 1,9                                                                                   |                                                                                    |                                                                                      |
| <b>63009</b> |                                                                                    | 2                                                                                               |                                                                                       |                                                                                    |                                                                                      |

### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Serie pesada / Heavy duty / Série lourde





| COD.         |  |  O.D.<br>inch |  Kg |  |  |
|--------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>59020</b> | NPT                                                                                 | 1/4                                                                                              | 0,6                                                                                    | 1                                                                                   |  |
| <b>59021</b> |                                                                                     | 3/8                                                                                              |                                                                                        |                                                                                     |                                                                                       |
| <b>63013</b> |                                                                                     | 1/2                                                                                              |                                                                                        |                                                                                     |                                                                                       |
| <b>63014</b> |                                                                                     | 3/4                                                                                              |                                                                                        |                                                                                     |                                                                                       |
| <b>63015</b> |                                                                                     | 1                                                                                                |                                                                                        |                                                                                     |                                                                                       |
| <b>63016</b> |                                                                                     | 1.1/4                                                                                            |                                                                                        |                                                                                     |                                                                                       |

| COD.         |  |  O.D.<br>inch |  Kg |  |  |
|--------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>63017</b> | NPT                                                                                 | 1.1/4                                                                                            | 1,5                                                                                    | 1                                                                                   |  |
| <b>63018</b> |                                                                                     | 1.1/2                                                                                            | 1,9                                                                                    |                                                                                     |                                                                                       |
| <b>63019</b> |                                                                                     | 2                                                                                                |                                                                                        |                                                                                     |                                                                                       |





### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Serie pesada / Heavy duty / Série lourde





### ■ PEINES / DIES / PEIGNES / SCHNEIDBACKEN / PETTINI / SAÇONETES / ГРЕБЕНКИ

| COD.         |  |  O.D.<br>inch |  g |  |
|--------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>59022</b> | BSPT                                                                                | 1/4                                                                                              | 70                                                                                    | 1                                                                                    |
| <b>59023</b> |                                                                                     | 3/8                                                                                              |                                                                                       |                                                                                      |
| <b>63042</b> |                                                                                     | 1/2                                                                                              |                                                                                       |                                                                                      |
| <b>63043</b> |                                                                                     | 3/4                                                                                              |                                                                                       |                                                                                      |
| <b>63044</b> |                                                                                     | 1                                                                                                |                                                                                       |                                                                                      |
| <b>63045</b> |                                                                                     | 1.1/4                                                                                            |                                                                                       |                                                                                      |
| <b>63046</b> |                                                                                     | 1.1/2                                                                                            |                                                                                       |                                                                                      |
| <b>63047</b> |                                                                                     | 2                                                                                                |                                                                                       |                                                                                      |



| COD.  |  |  O.D.<br>inch |  g |  |
|-------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 59024 | NPT                                                                               | 1/4                                                                                            | 70                                                                                  | 1                                                                                  |
| 59025 |                                                                                   | 3/8                                                                                            |                                                                                     |                                                                                    |
| 63052 |                                                                                   | 1/2                                                                                            |                                                                                     |                                                                                    |
| 63053 |                                                                                   | 3/4                                                                                            |                                                                                     |                                                                                    |
| 63054 |                                                                                   | 1                                                                                              |                                                                                     |                                                                                    |
| 63055 |                                                                                   | 1.1/4                                                                                          |                                                                                     |                                                                                    |
| 63056 |                                                                                   | 1.1/2                                                                                          |                                                                                     |                                                                                    |
| 63057 |                                                                                   | 2                                                                                              |                                                                                     |                                                                                    |

■ **CARRACAS / RATCHET / CLIQUETS / RATSCHENHEBEL / CRICCO DI MANOVRA / ROQUETES / ТРЕЦЕТКИ**

| COD.  |  O.D.<br>inch |  Kg |  |  |
|-------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 63000 | 1/4-1.1/4                                                                                      | 1,5                                                                                  | 1                                                                                 | •                                                                                  |
| 63010 | 1.1/4-2                                                                                        | 3,0                                                                                  |                                                                                   |                                                                                    |





■ **ESTUCHE / CASE / ÉTUI / KOFFER / ASTUCCIO / САХА / ФУТЛЯ**

| COD.  | L x W x H (mm)  |
|-------|-----------------|
| 51000 | 410 x 210 x 95  |
| 50002 | 640 x 340 x 155 |




■ **REDUCTOR / ADAPTOR / ADAPTATEUR / ADAPTER / RIDUTTORE / REDUTOR / АДАПТЕР**

| COD.  |  O.D.<br>inch |  g |  |
|-------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 80833 | 1/4-1.1/4                                                                                        | 15                                                                                    | •                                                                                   |





■ **ACEITE DE CORTE / CUTTING OIL / HUILE DE COUPE / GEWINDESCHNEIDMITTEL / OLIO DA TAGLIO / OLEO DE CORTE / РЕЗЬБОНАРЕЗНОЕ МАСЛО**

| COD.  | CAP. (ml) |  |
|-------|-----------|-------------------------------------------------------------------------------------|
| 64007 | 100       | 1                                                                                   |



■ **CINTA DE SELLADO DE PTFE PARA ROSCAS / PTFE THREAD SEALING TAPE / BANDE DE SCELLEMENT PTFE POUR FILETAGES / PTFE GEWINDE DICHTUNGSBAND / NASTRO DI SIGILLATURA PTFE PER FILETTATURE / FITA PARA SELAR ROSCAS PTFE / ФУМ-ЛЕНТА ДЛЯ РЕЗЬБОВЫХ СОЕДИНЕНИЙ**

| COD.  | L (m) | W x H (mm) | Densidad (g/cm3) / Density (g/cm3) / Densité (g/cm3) |  g |  |
|-------|-------|------------|------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 51575 | 10    | 12 x 0,075 | 0,20                                                 | 10                                                                                    | 1                                                                                     |
| 51576 | 15    |            | 0,30                                                 | 15                                                                                    |                                                                                       |



### MASTERKIT - 1



| COD.         |      |     |       |       |                     |       |       |       |       |       |                |
|--------------|------|-----|-------|-------|---------------------|-------|-------|-------|-------|-------|----------------|
| <b>69000</b> |      | 10  |       |       |                     | 61004 | -     | -     |       |       |                |
| <b>69001</b> | BSPT | 9,5 | 51005 | 63000 | 63003, 63004, 63005 | -     | 61017 | -     | 62135 | 63172 | 100 ml (64007) |
| <b>69002</b> |      | 9,5 |       |       |                     | -     | -     | 61011 |       |       |                |
| <b>69021</b> | NPT  | 10  |       |       | 63013, 63014, 63015 |       | 61017 | -     |       |       |                |

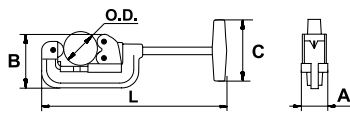
### MASTERKIT - 2



| COD.         |      |    |       |       |                                          |       |       |       |       |       |                |                   |
|--------------|------|----|-------|-------|------------------------------------------|-------|-------|-------|-------|-------|----------------|-------------------|
| <b>69050</b> |      | 16 |       |       |                                          | 61004 | -     | -     |       |       |                |                   |
| <b>69051</b> | BSPT | 17 | 50002 | 63010 | 63006, 63003, 63004, 63005, 63008, 63009 | -     | 61017 | -     | 62135 | 63172 | 100 ml (64007) | 1/4-1.1/4 (80833) |
| <b>69052</b> |      | 16 |       |       |                                          | -     | -     | 61011 |       |       |                |                   |
| <b>69072</b> | NPT  | 17 |       |       | 63013, 63014, 63015, 63016, 63018, 63019 |       | 61017 | -     |       |       |                |                   |

### CORTATUBOS / TUBE CUTTER / COUPE-TUBES / KUPFER ROHRABSCHNEIDER / TAGLIATUBI / CORTA TUBOS / ТРУБОРЕЗ

#### ■ CORTATUBOS DE ACERO / STEEL PIPE CUTTER / COUPE-TUBES ACIER / ROHRABSCHNEIDER / TAGLIATUBI PER FERRO / CORTA TUBOS AÇO / ТРУБОРЕЗ ДЛЯ СТАЛЬНЫХ ТРУБ



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) |           |     |     |   |       |
|--------------|--------|--------|--------|--------|-----------|-----|-----|---|-------|
| <b>63171</b> | 270    | 90     | 110    | 40     | 1/8-1.1/4 | 4,8 | 1,1 | 2 | 63103 |
| <b>63172</b> | 375    | 110    | 125    | 56     | 1/8-2     | 5,8 | 2,5 | 1 | 63101 |



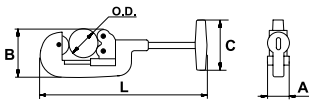
#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Acero / Steel / Acier

| COD.         | L (mm) | A (mm) | B (mm) | C (mm) |           |     |     |   |       |
|--------------|--------|--------|--------|--------|-----------|-----|-----|---|-------|
| <b>63098</b> | 270    | 90     | 110    | 40     | 1/8-1.1/4 | 4,8 | 1,1 | 2 | 63090 |
| <b>63099</b> | 375    | 110    | 125    | 56     | 1/8-2     | 5,6 | 2,5 | 1 | 63091 |

#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Acero inoxidable / Stainless steel / Acier inoxydable



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | O.D. inch | mm  | Kg  |   |       |
|--------------|--------|--------|--------|--------|-----------|-----|-----|---|-------|
| <b>63366</b> | 430    | 120    | 150    | 52     | 1/8-2     | 5,6 | 3,2 | 1 | 63101 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

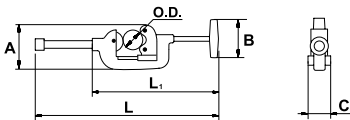
Acero / Steel / Acier



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | O.D. inch | mm  | Kg  |   |       |
|--------------|--------|--------|--------|--------|-----------|-----|-----|---|-------|
| <b>63378</b> | 430    | 120    | 150    | 52     | 1/8-2     | 5,6 | 3,2 | 1 | 63091 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero inoxidable / Stainless steel / Acier inoxydable



| COD.         | L (mm) | L1 (mm) | A (mm) | B (mm) | C (mm) | O.D. inch | mm  | Kg  |   |       |
|--------------|--------|---------|--------|--------|--------|-----------|-----|-----|---|-------|
| <b>63175</b> | 960    | 560     | 195    | 170    | 60     | 2-4       | 8,6 | 8,0 | 1 | 63185 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero / Steel / Acier

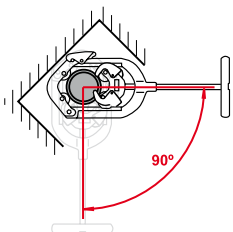


| COD.         | L (mm) | L1 (mm) | A (mm) | B (mm) | C (mm) | O.D. inch | mm  | Kg  |   |       |
|--------------|--------|---------|--------|--------|--------|-----------|-----|-----|---|-------|
| <b>63177</b> | 960    | 560     | 195    | 170    | 60     | 2-4       | 8,6 | 8,0 | 1 | 63186 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero inoxidable / Stainless steel / Acier inoxydable

**CORTATUBOS ARTICULADO / HINGED PIPE CUTTER / COUPE TUBES ARTICULÉ / UNIVERSAL ROHRABSCHNEIDER / TAGLIATUBI ARTICOLATO / CORTA TUBOS ARTICULADO / ТРУБОРЕЗ С ХОМУТНОЙ ЗАЩЕЛКОЙ**



| COD.         | O.D. inch | O.D. mm | Kg  |   |       |
|--------------|-----------|---------|-----|---|-------|
| <b>63355</b> | 2-4       |         | 6,0 |   | 64173 |
| <b>63356</b> | 4-6       | 8,6     | 9,0 | 1 | 64174 |
| <b>63357</b> | 6-8       |         | 11  |   | 64175 |
| <b>63358</b> | 8-12      |         | 16  |   | 64176 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero / Steel / Acier



| COD.         | O.D. inch | O.D. mm | Kg  |   |       |
|--------------|-----------|---------|-----|---|-------|
| <b>63359</b> | 2-4       |         | 6,0 |   | 64196 |
| <b>63360</b> | 4-6       | 8,6     | 9,0 | 1 | 64197 |
| <b>63361</b> | 6-8       |         | 11  |   | 64198 |

| COD.         | O.D.<br>inch | O.D.<br>mm | Kg |   |       |
|--------------|--------------|------------|----|---|-------|
| <b>63362</b> | 8-12         | 8,6        | 16 | 1 | 64199 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero inoxidable / Stainless steel / Acier inoxydable

| COD.         | O.D.<br>inch | O.D.<br>mm | Kg  |   |       |
|--------------|--------------|------------|-----|---|-------|
| <b>63772</b> | 2-4          |            | 6,0 |   | 64654 |
| <b>63773</b> | 4-6          |            | 9,0 | 1 | 68078 |
| <b>63774</b> | 6-8          | 8,6        | 11  |   |       |
| <b>63775</b> | 8-12         |            | 16  |   | 64655 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Hierro dúctil y fundición / Cast and ductile iron / Fer malléable et fonte

**SERIE INOX / STAINLESS STEEL / INOX / EDELSTAHL / ACCIAIO INOX / AÇO INOXIDAVEL / НЕРЖАВЕЮЩАЯ СТАЛЬ**

**MINI**

| COD.         |                                                             | MAX<br>mm | g   |    |   |       |    |
|--------------|-------------------------------------------------------------|-----------|-----|----|---|-------|----|
| <b>63076</b> | Acero inoxidable /<br>Stainless steel / Acier<br>inoxydable | 3-22      | 135 | 20 | ● | 63113 | 20 |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Reforzado / Reinforced / Renforcé

**MINI 30**

| COD.         |                                                             | MAX<br>mm | g   |    |   |       |    |
|--------------|-------------------------------------------------------------|-----------|-----|----|---|-------|----|
| <b>63169</b> | Acero inoxidable /<br>Stainless steel / Acier<br>inoxydable | 3-30      | 210 | 10 | ● | 63087 | 20 |



**CLASSIC 32**

| COD.         |                                                             | MAX<br>mm | g   |   |   |       |    |
|--------------|-------------------------------------------------------------|-----------|-----|---|---|-------|----|
| <b>63094</b> | Acero inoxidable /<br>Stainless steel / Acier<br>inoxydable | 3-32      | 300 | 1 | ● | 63113 | 20 |



**TELESCOPIC 32**

| COD.         |                                                             | MAX<br>mm | g   |   |   |       |    |
|--------------|-------------------------------------------------------------|-----------|-----|---|---|-------|----|
| <b>63118</b> | Acero inoxidable /<br>Stainless steel / Acier<br>inoxydable | 3-32      | 290 | 1 | ● | 63113 | 20 |



**UNIQUE**

| COD.         |                                                             | MAX<br>mm | g   |   |   |       |    |
|--------------|-------------------------------------------------------------|-----------|-----|---|---|-------|----|
| <b>63121</b> | Acero inoxidable /<br>Stainless steel / Acier<br>inoxydable | 6-42      | 550 | 8 | ● | 63114 | 10 |



**AUTOMATIC 50**

| COD.         |                                                             | MAX<br>mm | g   |   |   |       |    |
|--------------|-------------------------------------------------------------|-----------|-----|---|---|-------|----|
| <b>63364</b> | Acero inoxidable /<br>Stainless steel / Acier<br>inoxydable | 6-50      | 450 | 1 | ● | 63721 | 10 |





■ TELESCOPIC 70

| COD.         | MAX mm                                                      | g    |      |   |   |          |
|--------------|-------------------------------------------------------------|------|------|---|---|----------|
| <b>60379</b> | Acero inoxidable /<br>Stainless steel / Acier<br>inoxydable | 6-70 | 1100 | 1 | ● | 60218 10 |



■ KIT 3 PCS.

| COD.         | PCS. | COD. PCS.           |
|--------------|------|---------------------|
| <b>69548</b> | 3    | 63076, 63094, 63121 |



**TORNILLO DE BANCO PARALELO CON MORDAZAS PARA TUBO / PARALLEL BENCH VICE WITH PIPE JAWS / ETAU À MORS PARALLELES AVEC SERRE TUBE / PARALLELSCHRAUBSTOCK MIT ROHRSPANNBACKEN / MORSA PARALLELA CON GANASCE PER TUBI / TORNO PARALELO CON MORDAÇAS PARA TUBO / СЛЕСАРНЫЕ ТИСКИ С ТРУБНЫМИ ГУБКАМИ**

■ FIJO / FIXED / FIXE / FESTE-AUSFÜHRUNG / BASE FISSA / FIXO / ФИКСИРОВАННЫЙ

| COD.         | inch | mm  | O.D. inch | N     | Kg  |   |
|--------------|------|-----|-----------|-------|-----|---|
| <b>57619</b> | 4    | 100 | 1/4-1.1/4 | 15000 | 7,0 | 1 |
| <b>57620</b> | 5    | 150 | 1/4-1.1/2 | 25000 | 11  |   |
| <b>57621</b> | 6    | 200 | 1/4-1.1/2 | 35000 | 17  |   |
| <b>57622</b> | 7    | 225 | 1/2-3     | 50000 | 27  |   |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fabricado en acero fundido nodular de precisión - "Tipo forjado" / Made of accurate ductile cast steel - "Forged type" / Fabriqué en acier moulé nodulaire de précision - "Type forgé"

■ GIRATORIO / SWIVEL / TOURNANT / DREHBARE / MORSA GIREVOLE / BASE GIRATORIA / ПОВОРОТНОЕ

| COD.         | inch | mm  | N     | Kg  |   |
|--------------|------|-----|-------|-----|---|
| <b>57624</b> | 4    | 100 | 15000 | 8,0 | 1 |
| <b>57625</b> | 5    | 150 | 25000 | 12  |   |
| <b>57626</b> | 6    | 200 | 35000 | 18  |   |
| <b>57627</b> | 7    | 225 | 50000 | 29  |   |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fabricado en acero fundido nodular de precisión - "Tipo forjado" / Made of accurate ductile cast steel - "Forged type" / Fabriqué en acier moulé nodulaire de précision - "Type forgé"

■ REPUESTOS / SPARE PARTS / RECHANGES / ERSATZTEILE / ACCESORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ

| COD.         | (inch) | Kg  |
|--------------|--------|-----|
| <b>86580</b> | 4      | 0,8 |
| <b>86581</b> | 5      | 1,0 |
| <b>86582</b> | 6      | 1,3 |
| <b>86583</b> | 7      | 1,4 |





  

| COD.         | (inch) | Kg  |
|--------------|--------|-----|
| <b>86584</b> | 4      | 0,7 |
| <b>86585</b> | 5      | 0,9 |
| <b>86586</b> | 6      | 1,1 |
| <b>86587</b> | 7      | 1,3 |



**TORNILLO DE BANCO PARALELO / PARALLEL BENCH VICE / ÉTAU À MORS PARALLELES / PARALLELSCHRAUBSTÖCKE / Morsa da Banco Paralela / TORNO DE BANCADA PARALELO / ТИСКИ**

**FIJO / FIXED / FIXE / FESTE-AUSFÜHRUNG / BASE FISSA / FIXO / ФИКСИРОВАННЫЙ**

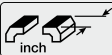



| COD.  |  |  | N      |  |  |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 57636 | 4                                                                                 | 100                                                                               | 10.000 | 8,0                                                                               | 1                                                                                   |
| 57637 | 5                                                                                 | 125                                                                               | 15.000 | 12                                                                                |                                                                                     |
| 57638 | 6                                                                                 | 150                                                                               | 20.000 | 14                                                                                |                                                                                     |
| 57639 | 8                                                                                 | 200                                                                               | 25.000 | 22                                                                                |                                                                                     |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero fundido / Cast steel / Font d'acier

**GIRATORIO / SWIVEL / TOURNANT / DREHBARE / Morsa girevole / BASE GIRATORIA / ПОВОРОТНОЕ**


| COD.  |  |  | N      |  |  |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 57645 | 4                                                                                 | 100                                                                               | 10.000 | 9,0                                                                               | 1                                                                                   |
| 57646 | 5                                                                                 | 125                                                                               | 15.000 | 13                                                                                |                                                                                     |
| 57647 | 6                                                                                 | 150                                                                               | 20.000 | 15                                                                                |                                                                                     |
| 57648 | 8                                                                                 | 200                                                                               | 25.000 | 23                                                                                |                                                                                     |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero fundido / Cast steel / Font d'acier

**REPUESTOS / SPARE PARTS / RECHANGES / ERSATZTEILE / ACCESORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**





| COD.  | (inch) |  |
|-------|--------|-------------------------------------------------------------------------------------|
| 87840 | 4      | 1,0                                                                                 |
| 87841 | 5      | 1,2                                                                                 |
| 87842 | 6      | 1,4                                                                                 |
| 87843 | 8      | 1,6                                                                                 |



| COD.  | (inch) |
|-------|--------|
| 87844 | 4      |
| 87845 | 5      |
| 87846 | 6      |
| 87847 | 8      |











**TORNILLO DE BANCO PARA TUBOS / PIPE VICE / ÉTAU À CHARNIÈRE / ROHRSCHRAUBSTOCK / Morsa per tubi / TORNO PARA TUBOS / ВЕРСТАЧНЫЕ ТРУБНЫЕ ТИСКИ**

| COD.  |  |  |  |  |
|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 61202 | 1/8-2                                                                               | 10-60                                                                               | 4,0                                                                                 | 1                                                                                    |
| 61204 | 1/8-3                                                                               | 10-89                                                                               | 8,0                                                                                 |                                                                                      |
| 61205 | 1/8-4                                                                               | 10-114                                                                              | 12                                                                                  |                                                                                      |



**REPUESTOS / SPARE PARTS / RECHANGES / ERSATZTEILE / ACCESORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

| COD.  |  |  |
|-------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 64260 | 2                                                                                   |  |
| 64261 | 3                                                                                   |  |
| 64352 | 3                                                                                   |  |
| 64353 | 4                                                                                   |  |
| 64258 | 4                                                                                   |  |
| 64259 | 4                                                                                   |  |

**TORNILLO DE BANCO PARA TUBOS PORTÁTIL / PORTABLE PIPE VICE / ÉTAU À TUBE PORTABLE / TRAGBARE ROHRSCRAUBSTOCK / MORSÀ DA BANCO PER TUBI PORTATILI / TORNO DE BANCADA PARA TUBO PORTÁTIL / ТРУБНЫЕ ТИСКИ СО СТРУБЦИНОЙ**

| COD.  | O.D.<br>inch | O.D.<br>mm | Kg  |   |
|-------|--------------|------------|-----|---|
| 61199 | 1/8-2        | 10-60      | 5,5 | 1 |



**MORDAZA DE CADENA / CHAIN VICE / ÉTAU À CHAÎNE / KETTENROHRSCRAUBSTOCK / MORSÀ A CATENA / TORNOS DE CORRENTE / ЦЕПНЫЕ ТИСКИ**

| COD.  | O.D.<br>inch | Kg |   |
|-------|--------------|----|---|
| 61206 | 1/8-6        | 12 | 1 |



**TRIPOD STAND**

| COD.  | O.D.<br>inch | O.D.<br>mm | Kg |   |
|-------|--------------|------------|----|---|
| 61200 | 1/8-6        | 10-170     | 21 | 1 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Con mordaza de cadena 6" / With chain vice 6" / Avec étau à chaîne 6"



**MESA DE TRABAJO / WORK BENCH / TABLE DE MONTEUR / ARBEITSTISCH / BANCHI DA LAVORO / MESAS DE TRABALHO / РАБОЧИЙ СТОЛ**

| COD.  | L x W x H (mm)  | Kg-MAX | Kg |
|-------|-----------------|--------|----|
| 61197 | 710 x 450 x 825 | 500    | 18 |



# PROYECTOS PRINCIPALES

## *MAIN PROJECTS*

# PRINCIPAUX PROJETS

**FUERZAS AEREAS OCCIDENTALES / WESTERN AIR FORCE  
DEFENSE / FORCES AÉRIENNES OCCIDENTALES  
MANTENIMIENTO / MAINTENANCE / MAINTENANCE**



18

HERRAMIENTA PARA INOX  
STAINLESS STEEL TOOLS  
OUTIL POUR INOX  
EDELSTAHL-WERKZEUGE  
UTENSILI PER ACCIAIO INOX  
FERRAMENTA PARA INOX  
ИНСТРУМЕНТЫ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ

INOX

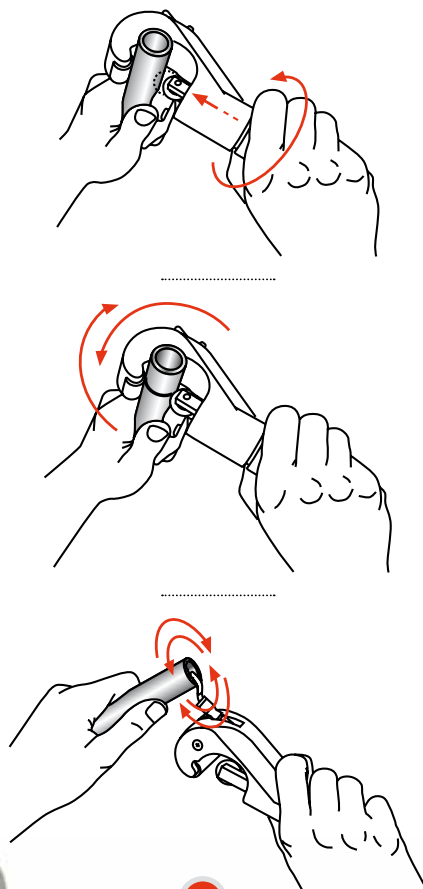




**Medalla de Oro**  
Salón Internacional  
de la Invención  
París 2004

**Gold Medal**  
International Inventors  
Competition  
Paris 2004

**Medaille d'Or**  
Salon International  
de l'Invention  
Paris 2004



1

Acción rápida y suave gracias a su mecanizado de precisión.

*Precision machining provides the quickest and smoothest action.*

Action rapide et douce, grâce à son usinage très précis.

2

Extremadamente robusto, compacto y fácil de usar.

*Extremely robust, compact and easy to use.*

Très robuste, compact et aisé à utiliser.

3

Escala graduada marcada en láser para facilitar el posicionamiento.

*Laser marked graduated scale to facilitate working action.*

Echelle graduée, marquée au laser, pour faciliter le positionnement.

4

Cuchilla de repuesto incluida en el pomo.

*Extra cutting wheel at the knob.*

Molette de rechange, incluse dans le manche.

5

Especialmente diseñado para corte de tubos de acero inoxidable.

*Specially designed for cutting stainless steel pipes.*

Spécialement conçu pour couper les tubes en acier inoxydable.

6

Escariador extraíble puede trabajar montado en el cortatubos o de forma independiente.

*Extractable reamer can work assembled in the tubing cutter or independently.*

L'alésoir extractif peut travailler assemblé au coupe-tubes ou de manière indépendante.

7

Rodillos sin ranura fabricados en acero inoxidable para evitar contaminaciones.

*Stainless steel Rollers to avoid contamination, without groove.*

Rouleaux sans rainure fabriqués en acier inoxydable pour éviter la pollution.

8







Cuchilla HSS de larga duración para corte preciso y rápido.

*Long lasting HSS cutting Wheel for accurate and fast cutting.*

Lame HSS de longue durée pour coupure précise et rapide.

■ **CORTATUBOS / TUBE CUTTER / COUPE-TUBES / KUPFER ROHRABSCHNEIDER / TAGLIATUBI / CORTA TUBOS / ТРУБОРЕЗ**

■ **MINI**







| COD.         |                                                             |  |  |  |  |  |  |
|--------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>63076</b> | Acero inoxidable /<br>Stainless steel / Acier<br>inoxydable | 3-22                                                                              | 135                                                                               | 20                                                                                | ●                                                                                 | 63113                                                                             | 20                                                                                  |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**







Reforzado / Reinforced / Renforcé

■ **MINI 30**

| COD.         |                                                             |  |  |  |  |  |  |
|--------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>63169</b> | Acero inoxidable /<br>Stainless steel / Acier<br>inoxydable | 3-30                                                                              | 210                                                                               | 10                                                                                | ●                                                                                 | 63087                                                                             | 20                                                                                  |









■ **CLASSIC 32**

| COD.         |                                                             |  |  |  |  |  |  |
|--------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>63094</b> | Acero inoxidable /<br>Stainless steel / Acier<br>inoxydable | 3-32                                                                              | 300                                                                               | 1                                                                                 | ●                                                                                 | 63113                                                                             | 20                                                                                  |









■ **TELESCOPIC 32**

| COD.         |                                                             |  |  |  |  |  |  |
|--------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>63118</b> | Acero inoxidable /<br>Stainless steel / Acier<br>inoxydable | 3-32                                                                                | 290                                                                                 | 1                                                                                   | ●                                                                                   | 63113                                                                               | 20                                                                                    |









■ **UNIQUE**

| COD.         |                                                             |  |  |  |  |  |  |
|--------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>63121</b> | Acero inoxidable /<br>Stainless steel / Acier<br>inoxydable | 6-42                                                                                | 550                                                                                 | 8                                                                                   | ●                                                                                   | 63114                                                                               | 10                                                                                    |









■ **AUTOMATIC 50**

| COD.         |                                                             |  |  |  |  |  |  |
|--------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>63364</b> | Acero inoxidable /<br>Stainless steel / Acier<br>inoxydable | 6-50                                                                                | 450                                                                                 | 1                                                                                   | ●                                                                                   | 63721                                                                               | 10                                                                                    |



■ **TELESCOPIC 70**

| COD.         |                                                             |  |  |  |  |  |  |
|--------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>60379</b> | Acero inoxidable /<br>Stainless steel / Acier<br>inoxydable | 6-70                                                                                | 1100                                                                                | 1                                                                                   | ●                                                                                   | 60218                                                                               | 10                                                                                    |



**KIT 3 PCS.**

| COD.         | PCS. | COD. PCS.           |
|--------------|------|---------------------|
| <b>69548</b> | 3    | 63076, 63094, 63121 |



**CORTATUBOS INOX / STAINLESS STEEL PIPE CUTTER / COUPE-TUBES INOX / EDELSTAHL ROHRABSCHNEIDER / TAGLIATUBI PER ACCIAIO INOX / CORTA TUBOS INOX / ТРУБОРЕЗ ДЛЯ ТРУБ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ**

| COD.         | O.D. inch | Kg  | PCS. | COD.  |
|--------------|-----------|-----|------|-------|
| <b>63098</b> | 1/8-1.1/4 | 1,1 | 2    | 63090 |
| <b>63099</b> | 1/8-2     | 2,5 | 1    | 63091 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero inoxidable / Stainless steel / Acier inoxydable

| COD.         | O.D. inch | Kg  | PCS. | COD.  |
|--------------|-----------|-----|------|-------|
| <b>63378</b> | 1/8-2     | 3,2 | 1    | 63091 |

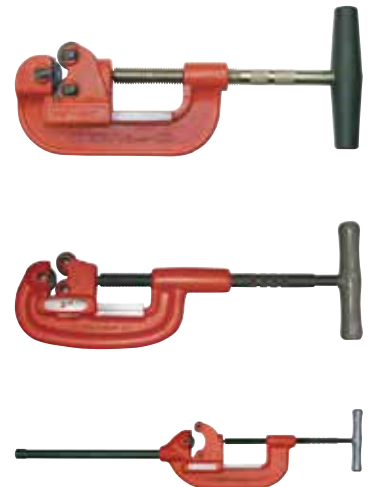
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero inoxidable / Stainless steel / Acier inoxydable

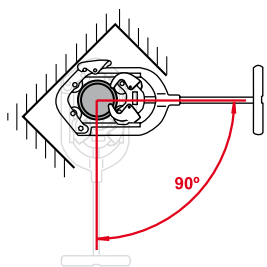
| COD.         | O.D. inch | Kg  | PCS. | COD.  |
|--------------|-----------|-----|------|-------|
| <b>63177</b> | 2-4       | 8,0 | 1    | 63186 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero inoxidable / Stainless steel / Acier inoxydable



**CORTATUBOS ARTICULADO / HINGED PIPE CUTTER / COUPE TUBES ARTICULÉ / UNIVERSAL ROHRABSCHNEIDER / TAGLIATUBI ARTICOLATO / CORTA TUBOS ARTICULADO / ТРУБОРЕЗ С ХОМУТНОЙ ЗАЩЕЛКОЙ**



| COD.         | O.D. inch | O.D. mm | Kg  | PCS. | COD.  |
|--------------|-----------|---------|-----|------|-------|
| <b>63359</b> | 2-4       |         | 6,0 |      | 64196 |
| <b>63360</b> | 4-6       | 8,6     | 9,0 | 1    | 64197 |
| <b>63361</b> | 6-8       |         | 11  |      | 64198 |
| <b>63362</b> | 8-12      |         | 16  |      | 64199 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero inoxidable / Stainless steel / Acier inoxydable



**ESCARIADORES / REAMERS / ALESOIR / ENTGRATER / SBAVATORI / ESCARIADOR / ЗЕНКОВКА**

| COD.         | Material                                                                          | g  | PCS. | PCS. | 47 mm | 26 mm |
|--------------|-----------------------------------------------------------------------------------|----|------|------|-------|-------|
| <b>63371</b> | Cu, Acero, Plástico, Inox / Cu, Steel, Plastic, Inox / Cu, Acier, Plastique, Inox | 90 | 20   | ●    | 64008 | 64447 |





| COD.         |                                                                                          |        |            |     |       |   |
|--------------|------------------------------------------------------------------------------------------|--------|------------|-----|-------|---|
| <b>63370</b> | Cu, Acero, Plástico, Inox / Cu, Steel, Plastic, Inox / Cu, Acier, Plastique, Inox        | 50     | 20         | ●   | 64008 |   |
| <b>63368</b> | Cu, Acero, Plástico, Inox / Cu, Steel, Plastic, Inox / Cu, Acier, Plastique, Inox        | 10     | 20         | ●   | 64008 |   |
| COD.         |                                                                                          | L (mm) |            |     |       |   |
| <b>64008</b> | Cu, Acero, Plástico, Inox / Cu, Steel, Plastic, Inox / Cu, Acier, Plastique, Inox        | 47     | 6          |     |       |   |
| COD.         |                                                                                          | L (mm) |            |     |       |   |
| <b>64447</b> | Cu, Acero, Plástico, Inox / Cu, Steel, Plastic, Inox / Cu, Acier, Plastique, Inox        | 26     | 20         |     |       |   |
| COD.         |                                                                                          |        |            |     |       |   |
| <b>63958</b> | Cu, Acero, Plástico, Inox, Latón, Aluminio / Cu, Steel, Plastic, Inox, Brass, Aluminum / | 8-35   | 5/16-1.3/8 | 250 | 1     | ● |
| <b>63959</b> | Cu, Acier, Plastique, Inox, Laiton, Aluminium                                            | 10-54  | 1/2-2.1/8  | 500 |       |   |



**ESCARIADOR DE CHAFLANES / CHAMFERBIT / EBAVUREUR Á CHANFREINS / ABSCHRÄGER / SBAVATORE PER SMUSSI / ESCARIADOR DE CHANFROS / ЗЕНКОВКА С РУКОЯТКОЙ**

| COD.         |                                                                                   |      | Crestas / Crests / Crête |     |   |
|--------------|-----------------------------------------------------------------------------------|------|--------------------------|-----|---|
| <b>63776</b> | Cu, Acero, Plástico, Inox / Cu, Steel, Plastic, Inox / Cu, Acier, Plastique, Inox | 12,4 | 3                        | 100 | 6 |
| <b>63777</b> |                                                                                   | 25   |                          | 120 |   |



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Material / Material / Matière HSS (M2)

**FRESA CÓNICA / CONIC MILLING TOOL / FRAISE CONIQUE / SCHAFTFRÄSER KONISCH / FRESA CONICA / FRESA CÓNICA / КОНИЧЕСКАЯ ЗЕНКОВКА С РУКОЯТКОЙ**

| COD.         |                                                                                   |       | Crestas / Crests / Crête |     |   |
|--------------|-----------------------------------------------------------------------------------|-------|--------------------------|-----|---|
| <b>63778</b> | Cu, Acero, Plástico, Inox / Cu, Steel, Plastic, Inox / Cu, Acier, Plastique, Inox | 10-34 | 6                        | 150 | 6 |



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Material / Material / Matière HSS

**ESCARIADOR CÓNICO / TAPER REAMER / EBAVUREUR CONIQUE / HANDREIBAHLEN / SBAVATORE CONICO / ESCARIADOR CÓNICO / ЛЕНТОЧНАЯ ЗЕНКОВКА**

| COD.         |                                                                                   |       | Crestas / Crests / Crête |     |   |
|--------------|-----------------------------------------------------------------------------------|-------|--------------------------|-----|---|
| <b>63779</b> | Cu, Acero, Plástico, Inox / Cu, Steel, Plastic, Inox / Cu, Acier, Plastique, Inox | 3-12  | 6                        | 100 | 6 |
| <b>63780</b> |                                                                                   | 10-25 | 8                        | 120 |   |



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**




Material / Material / Matière HSS

**RASQUETA / SCRAPER / RACLOIR / ENTGRATER / SPATOLA / ESPÁTULA / ШАБЕР**

| COD.         |                                                                                   |        |     |    |       |
|--------------|-----------------------------------------------------------------------------------|--------|-----|----|-------|
| <b>63376</b> | Cu, Acero, Plástico, Inox / Cu, Steel, Plastic, Inox / Cu, Acier, Plastique, Inox | 60     | 20  | ●  | 64449 |
| COD.         | Válido para / Valid for / Valable pour                                            | L (mm) |     |    |       |
| <b>64449</b> | Cu, Acero, Plástico, Inox / Cu, Steel, Plastic, Inox / Cu, Acier, Plastique, Inox | 63376  | 120 | 20 |       |








**CEPILLOS PARA LIMPIEZA / CLEANING BRUSHES / Brosse de nettoyage / REINIGUNGSBÜRSTE / SPAZZOLE / ESCOVAS PARA LIMPIEZA / ЩЕТКИ ДЛЯ ЗАЧИСТКИ**

| COD.         | CAP. Ø (inch) | INT./ EXT. |  |  |  |
|--------------|---------------|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>63206</b> | 1/2-3/4       | INT./ EXT. | 30                                                                                | 6                                                                                 | •                                                                                   |
| <b>63208</b> | 1/2           | INT.       | 5                                                                                 | 6                                                                                 | •                                                                                   |



**ABOCINADORES / FLARING TOOLS / APPAREIL À BATTRE LES COLLETS / BÖRDELGERÄT / FLANGIATUBI / ABOCARDADORES / РАЗВАЛЬЦОВКИ**

**KIT ABOCADOR CONO EXCÉNTRICO CON CARRACA / ECCENTRIC CONE FLARING TOOL KIT WITH RATCHET / KIT DUDGEONNIERE EXCENTRIQUE À CLIQUET / EXZENTRISCH BÖRDELGERÄT SATZ MIT RATSCHÉ / KIT FLANGIATUBI A FRIZIONE CON CRICCHETTO / KIT ABOCARDADOR CONO EXCÊNTRICO COM ROQUETE / ВАЛЬЦОВКА ДЛЯ ТРУБ С ЭКСЦЕНТРИКОВЫМ ТРЕЩЕТОЧНЫМ МЕХАНИЗМОМ**

| COD.         |  |  |  |  |  |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>57610</b> |                                                                                   | 1/4, 3/8, 1/2, 5/8, 3/4                                                           |                                                                                   | 1,3                                                                               |                                                                                     |
| <b>57611</b> | -                                                                                 | 1/4, 5/16, 3/8, 1/2, 5/8, 3/4                                                     |                                                                                   | 1,4                                                                               |                                                                                     |
| <b>57612</b> |                                                                                   | 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4                                          |                                                                                   | 1,5                                                                               |                                                                                     |
| <b>57613</b> | 6, 8, 10, 12, 15                                                                  |                                                                                   |                                                                                   | 1,3                                                                               |                                                                                     |
| <b>57614</b> | 6, 8, 10, 12, 16, 18                                                              |                                                                                   | •                                                                                 | 1,4                                                                               | 1                                                                                   |
| <b>57615</b> | 6, 8, 10, 12, 14, 15, 16, 18                                                      |                                                                                   |                                                                                   | 1,5                                                                               |                                                                                     |
| <b>57616</b> | 6, 8, 10, 12, 15                                                                  | 1/4, 3/8, 1/2, 5/8, 3/4                                                           |                                                                                   | 1,9                                                                               |                                                                                     |
| <b>57617</b> | 6, 8, 10, 12, 16, 18                                                              | 1/4, 5/16, 3/8, 1/2, 5/8, 3/4                                                     |                                                                                   | 2,0                                                                               |                                                                                     |
| <b>57618</b> | 6, 8, 10, 12, 14, 15, 16, 18                                                      | 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4                                          |                                                                                   | 2,2                                                                               |                                                                                     |



**ABOCINADOR CONO EXCÉNTRICO CON CARRACA / ECCENTRIC CONE FLARING TOOL WITH RATCHET / DUDGEONNIERE EXCENTRIQUE À CLIQUET / TAUMEL-BÖRDELGERÄT MIT RATSCHÉ / FLANGIATUBI CON CRICCHETTO / ABOCARDADOR CONO EXCÊNTRICO COM ROQUETE / РАЗВАЛЬЦОВКА С ЭКСЦЕНТРИЧЕСКИМ КОНУСОМ С ТРЕЩЕТКОЙ**






| COD.         |  |  |  |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>57603</b> | •                                                                                   | 0,8                                                                                 | 1                                                                                   |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Aluminio / Aluminum / Aluminium

**REGLA PARA ABOCADOR / RATCHET FLARING TOOL / RÈGLE À DUDGEONNER / MATRIZE FÜR BÖRDELGERÄT / SLITTA PER FLANGIATUBI / RÉGUA PARA ABOCARDADOR / ВАЛЬЦОВКА ДЛЯ ТРУБ**

| COD.         |  |  |  |  |  |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>57604</b> |                                                                                     | 1/4, 3/8, 1/2, 5/8, 3/4                                                             |                                                                                     | 530                                                                                 |                                                                                       |
| <b>57605</b> | -                                                                                   | 1/4, 5/16, 3/8, 1/2, 5/8, 3/4                                                       |                                                                                     | 600                                                                                 |                                                                                       |
| <b>57606</b> |                                                                                     | 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4                                            |                                                                                     | 680                                                                                 |                                                                                       |
| <b>57607</b> | 6, 8, 10, 12, 15                                                                    |                                                                                     | •                                                                                   | 530                                                                                 | 1                                                                                     |
| <b>57608</b> | 6, 8, 10, 12, 16, 18                                                                |                                                                                     |                                                                                     | 600                                                                                 |                                                                                       |
| <b>57609</b> | 6, 8, 10, 12, 14, 15, 16, 18                                                        |                                                                                     |                                                                                     | 680                                                                                 |                                                                                       |



**EGA** *Master*  
**ART IN INNOVATION**

19

**MÁQUINAS PARA TUBO**  
**PIPING MACHINES**  
**MACHINES POUR TUBE**  
**ROHRBEARBEITUNGSMASCHINEN**  
**MACCHINE PER TUBI**  
**MÁQUINAS PARA TUBO**  
**МАШИНЫ ДЛЯ ОБРАБОТКИ ТРУБ**



1

Ranuradora hidráulica hasta 12", para ranurados de gran calidad en tubos de acero y acero inoxidable.

*Hydraulic roll groover up to 12", for getting high quality grooves in steel and stainless steel pipes.*

Rainureuse hydraulique jusqu'à 12", pour un rainurage de grande qualité des tubes acier et inox.

2

Especialmente diseñada para trabajos a domicilio por su formato compacto, robusto y fácil de transportar.

*This machine is specially designed for job-site work due to its compact, strong and easy to transport format.*

Spécialement conçue pour des travaux sur chantier, grâce à sa forme compacte, robuste et facile à transporter.

3

Disponible en 3 formatos, ranuradora manual, ranuradora hidráulica o roscadora, ofrece la posibilidad de convertirla de una en otra con la simple adquisición del accesorio complementario, con lo que se dispondrá de ranuradora y roscadora en una sola máquina.

*Available in 3 formats, manual roll groover, hydraulic roll groover or threading machine, offers the possibility to transform one into the other just by acquiring the required accessory, having at your disposal threading and roll-grooving functions in only one machine*

Disponible en trois versions, rainureuse manuelle, rainureuse hydraulique ou filière, elle offre la possibilité de se convertir de l'une à l'autre, simplement par acquisition des accessoires complémentaires, ce qui vous permettra de posséder les deux en une.

4

El cambio de accesorios puede realizarse en pocos segundos, siendo así la operación de ranurado mucho más fácil.

*Any accessory change-out can be accomplished in few seconds, making grooving operation much easier.*

Les changements d'accessoires peuvent être réalisés en quelques secondes facilitant l'opération de rainurage.

## RANUMATIC "COMBI" UNIVERSAL

Ranuradora hidráulica hasta 12", para ranurados de gran calidad en tubos de acero y acero inoxidable.

*Hydraulic roll groover up to 12", for getting high quality grooves in steel and stainless steel pipes.*

Rainureuse hydraulique 12", pour un rainurage de grande qualité de tubes d'acier et d'inox.



## RANUMATIC UNIVERSAL MANUAL

Ranuradora manual hasta 6", para ranurados de gran calidad en tubos de acero y acero inoxidable.

*Manual roll groover up to 6", for getting high quality grooves in steel and stainless steel pipes.*

Rainureuse manuelle 6", pour un rainurage de grande qualité de tubes d'acier et d'inox.



## ROSCAMATIC 2" COMBI

Máquina roscadora de tubos hasta 2" y barras hasta 39 mm con motor universal, para un roscado eficiente y seguro.

*This threading machine can thread pipes up to 2" and bars up to 39 mm with universal motor in a safe and efficient way.*

Filière de tubes jusqu'à 2" et barres de 39 mm avec un moteur universel, fait un filetage efficace et sûr.



**MÁQUINAS DE PENSADO RADIAL / RADIAL PRESS FITTING MACHINES / SERTISSEUSES / RADIALPRESSE / MACCHINA PRESS FITTING RADIAL / MÁQUINAS DE PRENSAR RADIAÍS / РАДИАЛЬНЫЕ ПРЕССПИСТОЛЕТЫ**

**■ PRESSMATIC 54 (108) PORTABLE**

La máquina de prensado radial Pressmatic 54 (108) Portable es compacta, manejable, muy ligera y portátil. El sistema de portatenazas giratoria permite acceder fácilmente a los lugares de más difícil acceso de forma cómoda e incluso a una sola mano. La rapidez de esta máquina se ve implementada por el sistema rápido de portamordazas, que permite un cambio eficiente y seguro de mordazas, así como por el sistema de retorno automático, que elimina tiempos muertos en las operaciones de prensado. Su batería de 18V, 3.0 Ah Li-ion le da una larga autonomía de uso en lugares sin red eléctrica.

Consulte en las siguientes páginas qué mordaza individual y universal con casquillos intercambiables debe seleccionar dependiendo del sistema de accesorios de prensar que vaya a emplear.

*Portable Pressmatic pressfitting machine 54 (108) is compact, handy, light and portable. The revolving press jaw carrying system enables jobs in difficult places, in a comfortable way even one handed. The press jaw carrying system as well as the automatic reverse system make it extremely quick and safe, saving time and making the job more efficient. The 18V, 3.0 Ah Li-ion battery provides long autonomy in places without electricity.*

*Check the following pages to make the right choice of individual & universal with dies pressing jaw depending on the pressfitting system you may use.*

La sertisseuse Pressmatic 54 (108) Portable est compacte, maniable, légère et portable. Le système de portemâchoires pivotant, permet d'accéder facilement dans des coins exigües et d'une seule main. La vitesse de cette machine est complétée par un système rapide de portemâchoires qui permet d'éviter les temps morts durant les opérations de sertissage. Sa batterie de 18V, 3.0 Ah Li-ion lui confère une grande autonomie dans les sites sans réseau électrique.

Veuillez consulter les pages suivantes afin de choisir la mâchoire individuelle ou universelle avec manchons interchangeables la plus adaptable au système d'accessoire à sertissage utilisé.



| COD.         | V                   | CAP. Ø (mm) | BAT.  |   |   |     |
|--------------|---------------------|-------------|-------|---|---|-----|
| <b>57000</b> | 100-240V (50-60 Hz) | 12-54 (108) | 2 pcs | ● | ● | 4,5 |

CE I 12M



**■ ACCESORIOS / ACCESSORIES / ACCESSOIRES / ZUBEHÖR / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

| COD.         | Descripción / Description / Description | V                  |     |
|--------------|-----------------------------------------|--------------------|-----|
| <b>57001</b> | Batería / Battery / Batterie            | 18V, 3.0 Ah Li-ion | 0,5 |



| COD.         | Descripción / Description / Description | V                    |     |
|--------------|-----------------------------------------|----------------------|-----|
| <b>57002</b> | Cargador / Charger / Chargeur           | 100-240 V (50-60 Hz) | 1,0 |



**12M** GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

### ■ PRESSMATIC PORTABLE CCA

La máquina de prensado radial Pressmatic Portable CCA es compacta, manejable, ligera y portátil. El sistema de portatenazas giratoria permite acceder fácilmente a los lugares de mas difícil acceso de forma cómoda e incluso a una sola mano. La rapidez de esta maquina se ve implementada por el sistema rápido de portamordazas, que permite un cambio eficiente y seguro de mordazas, así como por el sistema de retorno automático, que elimina tiempos muertos en las operaciones de prensado. Su batería de 12V, 2.0 Ah le da una larga autonomía de uso en lugares sin red eléctrica, teniendo la posibilidad de ser empleado con conexión a la red para lugares con acceso de red (accesorio opcional).

Consulte en las siguientes páginas qué mordaza debe seleccionar dependiendo del sistema de accesorios de prensar que vaya a emplear.

*Pressmatic CCA pressfitting machine is compact, handy, light and portable. The revolving press jaw carrying system enables jobs in difficult places, in a comfortable way even one handed. The press jaw carrying system as well as the automatic reverse system make it extremely quick and safe, saving time and making the job more efficient. The 12V, 2.0 Ah battery provides long autonomy in places without electricity. An optional accessory also provides an electric plug connection where electricity is available.*

*Check the following pages to make the right choice of pressing jaws depending on the pres fitting system you may use.*

La sertisseuse Pressmatic Portable CCA est compacte, maniable, légère et portable. Le système de portemachoières pivotant, permet d'accéder facilement dans des coins exigüs et d'une seule main. La vitesse de cette machine est complétée par un système rapide de portemachoières qui permet d'éviter les temps morts durant les opérations de sertissage. Sa batterie de 12 Volts, 2.0 Ah lui confère une grande autonomie dans les sites sans réseau électrique et peut être connectée au réseau (Accessoire en option).

Consultez dans les pages suivantes, la machoire à sélectionner suivant le système d'accessoires à utiliser.



| COD.         | V                   | CAP. Ø (mm) | BAT. |   |   |     |
|--------------|---------------------|-------------|------|---|---|-----|
| <b>60196</b> | 220-240V (50-60 Hz) | 10-76 (108) | ●    | ● | ● | 4,5 |

CE I 12M



### ■ ACCESORIOS / ACCESSORIES / ACCESSOIRES / ZUBEHÖR / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ

| COD.         | Descripción / Description / Description           | V              |     |
|--------------|---------------------------------------------------|----------------|-----|
| <b>85000</b> | Batería Li-Ion / Li-Ion Battery / Batterie Li-Ion | 14,4 V, 5,0 Ah | 0,5 |



| COD.         | Descripción / Description / Description           | V                         |     |
|--------------|---------------------------------------------------|---------------------------|-----|
| <b>85009</b> | Cargador rápido / Quick charger / Chargeur rapide | 220-240 V (50-60 Hz) 65 W | 0,5 |



| COD.         | Descripción / Description / Description | V                    |     |
|--------------|-----------------------------------------|----------------------|-----|
| <b>85010</b> | Conexión / Connection / Connexion       | 220-240 V (50-60 Hz) | 0,8 |



### ■ PRESSMATIC CCA

La máquina de prensado radial Pressmatic CCA es compacta, manejable y ligera. El sistema de portatenazas giratoria permite acceder fácilmente a los lugares de mas difícil acceso de forma cómoda e incluso a una sola mano. La rapidez de esta máquina se ve implementada por el sistema rápido de portamordazas, que permite un cambio eficiente y seguro de mordazas, así como por el sistema de retorno automático, que elimina tiempos muertos en las operaciones de prensado.

Consulte en las siguientes páginas qué mordaza debe seleccionar dependiendo del sistema de accesorios de prensar que vaya a emplear.



*Pressmatic CCA pressfitting machine is compact, handy and light. The revolving press jaw carrying system enables jobs in difficult places, in a comfortable way even one handed. The press jaw carrying system as well as the automatic reverse system make it extremely quick and safe, saving time and making the job more efficient.*

*Check the following pages to make the right choice of pressing jaws depending on the pres fitting system you may use.*

La sertisseuse Pressmatic CCA est compacte, maniable et légère. Le système porte-machoières pivotant permet d'accéder aisément dans les coins exigüs de façon commode et d'une seule main . La rapidité de cette machine se voit confortée par un mécanisme rapide de porte-machoières , qui permet un changement efficient et sûr des machoières, ainsi que par le système de retour automatique qui élimine les temps morts durant les opérations de sertissage.

Consultez dans les pages suivantes, la machoière á sélectionner suivant le système d'accessoires á utiliser.



| COD.  | V                    | CAP. Ø (mm) | W   |  |  |
|-------|----------------------|-------------|-----|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 60194 | 220-240 V (50-60 Hz) | 10-76 (108) | 450 | ●                                                                                   | 5,0                                                                                   |
| 60195 | 110-130 V (50-60 Hz) |             |     |                                                                                     |                                                                                       |

CE | 12M



12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

Si no encuentra el artículo que necesita, consúltenos en [consulta@egamaster.com](mailto:consulta@egamaster.com) o en [www.egamaster.com](http://www.egamaster.com)  
 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
 Si vous ne trouvez pas l'article que vous desirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)

■ **PRESSMATIC 54 (108) PORTABLE - PRESSMATIC PORTABLE CCA - PRESSMATIC CCA**

■ **MORDAZAS PARA PRENSADO RADIAL / RADIAL PRESS FITTING TONGUES / MACHOÏRES POUR RACCORDS / RADIALPRESSZANGEN / Morsa per press fitting radial / MANDÍBULAS PARA PRENSAR RADIAIS / НАСАДКИ**



Las mordazas de prensar EGA Master están fabricadas en acero especial forjado, con un endurecimiento especial que le confiere la máxima seguridad de prensado. Los contornos están diseñados específicamente para cada sistema de accesorios, habiendo sido mecanizados en centros demecanizado de alta precisión, presentando así tolerancias inferiores a los realizados por microfundición, ofreciendo la máxima fiabilidad de prensado con cualquier sistema de accesorios de prensar. Se utilizan con las máquinas de prensar Pressmatic. También son empleables por máquinas de otros fabricantes.

*EGA Master pressing jaws are manufactured in special forging steel, being specially hardened. These features provide them with maximum working safety. Pressing contours are specifically designed for each pressing fitting system. They have been machined with high precision CNC machines, having much lower tolerances than microfusion, granting in this way maximum pressing reliability with any press fitting system. They are used with Pressmatic pressfitting machines. They can also be used in other manufacturers machines.*

Les machoïres à sertir Egamaster sont fabriquées à partir d'un acier forgé spécial, avec une dureté qui lui confère une sécurité de sertissage maximum. Les contours sont conçus spécifiquement pour chaque système d'accessoires, étant usinés dans des ateliers de grande précision, donnant de cette façon des tolérances inférieures à celles acquises par microfusion, garantissant le maximum de fiabilité du sertissage avec tous les systèmes d'accessoires à sertir. Les machoïres sont utilisées avec les machines à sertir Pressmatic. Elles peuvent être aussi utilisées avec les machines d'autres fabricants.

Consulte en las siguientes páginas qué mordaza debe seleccionar dependiendo del sistema de accesorios de prensar que vaya a emplear.

*Check the following pages to make the right choice of pressing jaws depending on the pres fitting system you may use.*

Consultez dans les pages suivantes, la machoïre à sélectionner suivant le système d'accessoires à utiliser.



|    |  |    |  |     |  |     |  |
|----|--|----|--|-----|--|-----|--|
| B  |  | F  |  | G   |  | H   |  |
| KI |  | M  |  | RFz |  | RN  |  |
| SA |  | TH |  | U   |  | US  |  |
| V  |  | VP |  | VX  |  | VUS |  |



## ■ PRESSMATIC 54 (108) PORTABLE - PRESSMATIC PORTABLE CCA - PRESSMATIC CCA

| SYSTEM                                         | COD.                                                                  | TYPE      | SYSTEM                                  | COD.                                     | TYPE                               | SYSTEM                                     | COD.                    | TYPE                                      | SYSTEM                                    | COD.                       | TYPE      |
|------------------------------------------------|-----------------------------------------------------------------------|-----------|-----------------------------------------|------------------------------------------|------------------------------------|--------------------------------------------|-------------------------|-------------------------------------------|-------------------------------------------|----------------------------|-----------|
| AC-FIX PRESS<br>(Global Piping System)         | 68328                                                                 | H 12      | BARBI<br>EASYPRESS                      | 68229                                    | RfZ 12                             | chronimo-<br>SANHA-NiroSan-<br>Presssystem | 68384                   | SA 22                                     | COMISA<br>Evo Press System                | 68394                      | TH 16     |
|                                                | 68330                                                                 | H 16      |                                         | 68330                                    | H 16                               |                                            | 68385                   | SA 28                                     |                                           | 68396                      | TH 18     |
|                                                | 68333                                                                 | H 20      |                                         | 68332                                    | H 18                               |                                            | 68386                   | SA 35                                     |                                           | 68397                      | TH 20     |
|                                                | 68334                                                                 | H 25      |                                         | 68333                                    | H 20                               |                                            | 68361                   | M 12                                      |                                           | 68398                      | TH 25     |
|                                                | 68336                                                                 | H 32      |                                         | 68335                                    | H 26                               |                                            | 68363                   | M 15                                      |                                           | 68400                      | TH 26     |
|                                                | 68229                                                                 | RFZ 12    |                                         | 68336                                    | H 32                               |                                            | 68365                   | M 18                                      |                                           | 68401                      | TH 32     |
|                                                | 68406                                                                 | U 16      |                                         | 68229                                    | RFZ 12                             |                                            | 68366                   | M 22                                      |                                           | 68402                      | TH 40     |
|                                                | 68408                                                                 | U 20      |                                         | 68330                                    | H 16                               |                                            | 68367                   | M 28                                      |                                           | 68403                      | TH 50 (S) |
|                                                | 68409                                                                 | U 25      |                                         | 68332                                    | H 18                               |                                            | 68368                   | M 35                                      |                                           | 68404                      | TH 63 (S) |
|                                                | 68410                                                                 | U 32      |                                         | 68333                                    | H 20                               |                                            | 68421                   | V 12                                      |                                           | 68329                      | H 14      |
| AC-FIX PRESS-<br>MULTI (Global piping Systems) | 68446                                                                 | VX 16     | BARBI MULTIPLEX<br>(Industrial Blansol) | 68335                                    | H 26                               | CIMBERIO Spa<br>Cimpress                   | 68422                   | V 14                                      | COMISA<br>Evo Press System Gas            | 68330                      | H 16      |
|                                                | 68447                                                                 | VX 20     |                                         | 68336                                    | H 32                               |                                            | 68423                   | VG 14                                     |                                           | 68332                      | H 18      |
|                                                | 68330                                                                 | H 16      |                                         | 68411                                    | U 40                               |                                            | 68424                   | V 15                                      |                                           | 68333                      | H 20      |
|                                                | 68332                                                                 | H18       |                                         | 68412                                    | U 50                               |                                            | 68424                   | V 16                                      |                                           | 68335                      | H 26      |
|                                                | 68333                                                                 | H20       |                                         | 68413                                    | U 63 (S)                           |                                            | 68425                   | VG 16                                     |                                           | 68336                      | H 32      |
|                                                | 68334                                                                 | H25       |                                         | 68300                                    | B 14                               |                                            | 68426                   | V 18                                      |                                           | 68300                      | B 14      |
|                                                | 68336                                                                 | H32       |                                         | 68301                                    | B 16                               |                                            | 68426                   | V 22                                      |                                           | 68301                      | B 16      |
|                                                | 68406                                                                 | U 16      |                                         | 68302                                    | B 18                               |                                            | 68427                   | V 28                                      |                                           | 68302                      | B 18      |
|                                                | 68407                                                                 | U 18      |                                         | 68303                                    | B 20                               |                                            | 68428                   | V 35                                      |                                           | 68303                      | B 20      |
|                                                | 68408                                                                 | U 20      |                                         | 68304                                    | B 26                               |                                            | 68429                   | V 42                                      |                                           | 68304                      | B 26      |
| AHLSELL<br>A-press elzörinkad                  | 68409                                                                 | U 25      | BEGETUBE/IVAR                           | 68305                                    | B 32                               | CIMBERIO Spa<br>Cimpress                   | 68430                   | V 54                                      | COMISA<br>Evo Press System Gas            | 68305                      | B 32      |
|                                                | 68410                                                                 | U 32      |                                         | 68317                                    | F 40                               |                                            | 68381                   | SA 15                                     |                                           | 68394                      | TH 16     |
|                                                | 68361                                                                 | M 12      |                                         | 68318                                    | F 50                               |                                            | 68383                   | SA 18                                     |                                           | 68396                      | TH 18     |
|                                                | 68363                                                                 | M 15      |                                         | 68319                                    | F 63 (S)                           |                                            | 68384                   | SA 22                                     |                                           | 68397                      | TH 20     |
|                                                | 68365                                                                 | M 18      |                                         | 68361                                    | M 12                               |                                            | 68385                   | SA 28                                     |                                           | 68398                      | TH 25     |
|                                                | 68366                                                                 | M 22      |                                         | 68363                                    | M 15                               |                                            | 68386                   | SA 35                                     |                                           | 68400                      | TH 26     |
|                                                | 68367                                                                 | M 28      |                                         | 68365                                    | M 18                               |                                            | 68363                   | M 15                                      |                                           | 68401                      | TH 32     |
|                                                | 68368                                                                 | M 35      |                                         | 68366                                    | M 22                               |                                            | 68365                   | M 18                                      |                                           | 68329                      | H 14      |
|                                                | 68369                                                                 | M 42 (4G) |                                         | 68367                                    | M 28                               |                                            | 68366                   | M 22                                      |                                           | 68330                      | H 16      |
|                                                | 68370                                                                 | M 54 (4G) |                                         | 68368                                    | M 35                               |                                            | 68367                   | M 28                                      |                                           | 68332                      | H 18      |
| AHSSELL<br>A-press koppar                      | 68421                                                                 | V 12      | BRASELI<br>Pressfitting Multicapa       | 68369                                    | M 42 (4G)                          | CIMBERIO Spa<br>Cimpress Gas               | 68368                   | M 35                                      | CONEL<br>CONNECT MULTI                    | 68333                      | H 20      |
|                                                | 68423                                                                 | V 15      |                                         | 68370                                    | M 54 (4G)                          |                                            | 68423                   | V 15                                      |                                           | 68335                      | H 26      |
|                                                | 68425                                                                 | V 18      |                                         | 68406                                    | U 16                               |                                            | 68425                   | V 18                                      |                                           | 68336                      | H 32      |
|                                                | 68426                                                                 | V 22      |                                         | 68407                                    | U 18                               |                                            | 68426                   | V 22                                      |                                           | 68300                      | B 14      |
|                                                | 68427                                                                 | V 28      |                                         | 68408                                    | U 20                               |                                            | 68427                   | V 28                                      |                                           | 68301                      | B 16      |
|                                                | 68428                                                                 | V 35      |                                         | 68409                                    | U 25                               |                                            | 68428                   | V 35                                      |                                           | 68302                      | B 18      |
|                                                | 68429                                                                 | V 42      |                                         | 68410                                    | U 32                               |                                            | 68429                   | V 42                                      |                                           | 68303                      | B 20      |
|                                                | 68430                                                                 | V 54      |                                         | 68411                                    | U 40                               |                                            | 68430                   | V 54                                      |                                           | 68304                      | B 26      |
|                                                | 68363                                                                 | M 15      |                                         | 68412                                    | U 50                               |                                            | 68381                   | SA 15                                     |                                           | 68305                      | B 32      |
|                                                | 68365                                                                 | M 18      |                                         | 68330                                    | H 16                               |                                            | 68383                   | SA 18                                     |                                           | 68312                      | F 16      |
| AHSSELL<br>A-press rosfrött                    | 68366                                                                 | M 22      | 68332                                   | H 18                                     | 68384                              | SA 22                                      | 68314                   | F 20                                      |                                           |                            |           |
|                                                | 68367                                                                 | M 28      | 68333                                   | H 20                                     | 68385                              | SA 28                                      | 68315                   | F 26                                      |                                           |                            |           |
|                                                | 68368                                                                 | M 35      | 68394                                   | TH 16                                    | 68386                              | SA 35                                      | 68316                   | F 32                                      |                                           |                            |           |
|                                                | 68369                                                                 | M 42 (4G) | 68396                                   | TH 18                                    | 68363                              | M 15                                       | 68330                   | H 16                                      |                                           |                            |           |
|                                                | 68370                                                                 | M 54 (4G) | 68397                                   | TH 20                                    | 68365                              | M 18                                       | 68333                   | H 20                                      |                                           |                            |           |
|                                                | 68361                                                                 | M 12      | 68406                                   | U 16                                     | 68366                              | M 22                                       | 68335                   | H 26                                      |                                           |                            |           |
|                                                | 68363                                                                 | M 15      | 68407                                   | U 18                                     | 68367                              | M 28                                       | 68336                   | H 32                                      |                                           |                            |           |
|                                                | 68365                                                                 | M 18      | 68408                                   | U 20                                     | 68368                              | M 35                                       | 68394                   | TH 16                                     |                                           |                            |           |
|                                                | 68366                                                                 | M 22      | 68330                                   | H 16                                     | 68369                              | M 42 (4G)                                  | 68396                   | TH 18                                     |                                           |                            |           |
|                                                | AIRBEL<br>PRESSCLIM                                                   | 68367     | M 28                                    | 68332                                    | H 18                               | 68423                                      | V 15                    | 68397                                     | TH 20                                     |                            |           |
| 68368                                          |                                                                       | M 35      | 68333                                   | H 20                                     | 68425                              | V 18                                       | 68400                   | TH 26                                     |                                           |                            |           |
| 68394                                          |                                                                       | TH 16     | 68394                                   | TH 16                                    | 68426                              | V 22                                       | 68401                   | TH 32                                     |                                           |                            |           |
| 68396                                          |                                                                       | TH 18     | 68396                                   | TH 18                                    | 68427                              | V 28                                       | 68406                   | U 16                                      |                                           |                            |           |
| 68400                                          |                                                                       | TH 26     | 68397                                   | TH 20                                    | 68428                              | V 35                                       | 68408                   | U 20                                      |                                           |                            |           |
| 68401                                          |                                                                       | TH 32     | 68406                                   | U 16                                     | 68429                              | V 42                                       | 68409                   | (NW 26) U 25                              |                                           |                            |           |
| 68402                                          |                                                                       | TH 40     | 68407                                   | U 18                                     | 68430                              | V 54                                       | 68410                   | U 32                                      |                                           |                            |           |
| 68403                                          |                                                                       | TH 50(S)  | 68408                                   | U 20                                     | 68337                              | H 40 (4G)                                  | 68392                   | TH 14                                     |                                           |                            |           |
| 68404                                          |                                                                       | TH 63(S)  | 68330                                   | H 16                                     | 68392                              | TH 14                                      | 68394                   | TH 16                                     |                                           |                            |           |
| ALB Sistema<br>Multicapa                       |                                                                       | 68330     | H 16                                    | BRASSTECH<br>MULTItermoSAN<br>Brasspress | 68332                              | H 18                                       | Climatek<br>Clima Therm | 68394                                     | TH 16                                     | Dalpex<br>LaserMultiDalpex | 68396     |
|                                                | 68332                                                                 | H 18      | 68333                                   |                                          | H 20                               | 68396                                      |                         | TH 18                                     | 68397                                     |                            | TH 20     |
|                                                | 68333                                                                 | H 20      | 68335                                   |                                          | H 26                               | 68397                                      |                         | TH 20                                     | 68400                                     |                            | TH 26     |
|                                                | 68335                                                                 | H 26      | 68394                                   |                                          | TH 16                              | 68401                                      |                         | TH 32                                     | 68401                                     |                            | TH 32     |
|                                                | 68336                                                                 | H 32      | 68396                                   |                                          | TH 18                              | 68397                                      |                         | TH 20                                     | 68402                                     |                            | TH 40     |
|                                                | 68337                                                                 | H 40 (4G) | 68397                                   |                                          | TH 20                              | 68400                                      |                         | TH 26                                     | 68403                                     |                            | TH 50 (S) |
|                                                | 68406                                                                 | U 16      | 68400                                   |                                          | TH 26                              | 68401                                      |                         | TH 32                                     | 68404                                     |                            | TH 63 (S) |
|                                                | 68407                                                                 | U 18      | 68401                                   |                                          | TH 32                              | 68348                                      |                         | H 40 A (4G)                               | 68406                                     |                            | U 16      |
|                                                | 68408                                                                 | U 20      | 68402                                   |                                          | TH 40                              | 68392                                      |                         | TH 14                                     | 68408                                     |                            | U 20      |
|                                                | AIRBEL<br>SERTINOX                                                    | 68394     | TH 16                                   |                                          | BROEN<br>BALLOFIX PRESS            | 68403                                      |                         | TH 50 (S)                                 | Comap<br>Sudopress Cu<br>Visu-Control     |                            | 68394     |
| 68396                                          |                                                                       | TH 18     | 68404                                   | TH 63 (S)                                |                                    | 68396                                      | TH 18                   | 68408                                     |                                           | U 20                       |           |
| 68400                                          |                                                                       | TH 26     | 68406                                   | U 16                                     |                                    | 68397                                      | TH 20                   | 68406                                     |                                           | U 16                       |           |
| 68401                                          |                                                                       | TH 32     | 68407                                   | U 18                                     |                                    | 68400                                      | TH 26                   | 68408                                     |                                           | U 20                       |           |
| 68402                                          |                                                                       | TH 40     | 68408                                   | U 20                                     |                                    | 68421                                      | V 12                    | 68392                                     |                                           | TH 14                      |           |
| 68403                                          |                                                                       | TH 50(S)  | 68363                                   | M 15                                     |                                    | 68422                                      | V 14                    | 68394                                     |                                           | TH 16                      |           |
| 68404                                          |                                                                       | TH 63(S)  | 68365                                   | M 18                                     |                                    | 68423                                      | V 15                    | 68396                                     |                                           | TH 18                      |           |
| 68330                                          |                                                                       | H 16      | 68366                                   | M 22                                     |                                    | 68424                                      | V 16                    | 68397                                     |                                           | TH 20                      |           |
| 68332                                          |                                                                       | H 18      | 68423                                   | V 15                                     |                                    | 68425                                      | V 18                    | 68400                                     |                                           | TH 26                      |           |
| APE Raccordi<br>a pressare                     |                                                                       | 68333     | H 20                                    | BUCCHI tech MP                           |                                    | 68425                                      | V 22                    | Comap<br>Sudopress Cu<br>Visu-Control Gas |                                           | 68426                      | V 28      |
|                                                | 68335                                                                 | H 26      | 68394                                   |                                          | TH 16                              | 68427                                      | V 28                    |                                           | 68402                                     | TH 40                      |           |
|                                                | 68336                                                                 | H 32      | 68396                                   |                                          | TH 18                              | 68428                                      | V 35                    |                                           | 68403                                     | TH 50 (S)                  |           |
|                                                | 68337                                                                 | H 40 (4G) | 68397                                   |                                          | TH 20                              | 68429                                      | V 42                    |                                           | 68404                                     | TH 63 (S)                  |           |
|                                                | 68406                                                                 | U 16      | 68400                                   |                                          | TH 26                              | 68430                                      | V 54                    |                                           | 68406                                     | U 16                       |           |
|                                                | 68407                                                                 | U 18      | 68401                                   |                                          | TH 32                              | 68421                                      | V 12                    |                                           | 68408                                     | U 20                       |           |
|                                                | 68408                                                                 | U 20      | 68363                                   |                                          | M 15                               | 68422                                      | V 14                    |                                           | 68409                                     | U 25                       |           |
|                                                | 68409                                                                 | U 25      | 68365                                   |                                          | M 18                               | 68423                                      | V 15                    |                                           | 68410                                     | U 32                       |           |
|                                                | 68410                                                                 | U 32      | 68366                                   |                                          | M 22                               | 68424                                      | V 16                    |                                           | 68410                                     | U 32                       |           |
|                                                | ASTM F 1807<br>(Fittings with<br>Copper Crimp Ring<br>for PEX tubing) | 68411     | U 40                                    |                                          | Business Key<br>MT-PRESS<br>(inox) | 68367                                      | M 28                    |                                           | Comap<br>Sudopress Cu<br>Visu-Control Gas | 68425                      | V 18      |
| 68412                                          |                                                                       | U 50      | 68368                                   | M 35                                     |                                    | 68426                                      | V 22                    | 68407                                     |                                           | U 18                       |           |
| 68413                                          |                                                                       | U 63 (S)  | 68369                                   | M 42 (4G)                                |                                    | 68427                                      | V 28                    | 68408                                     |                                           | U 20                       |           |
| 68394                                          |                                                                       | TH 16     | 68370                                   | M 54 (4G)                                |                                    | 68428                                      | V 35                    | 68409                                     |                                           | U 25                       |           |
| 68396                                          |                                                                       | TH 18     | 68361                                   | M 12                                     |                                    | 68429                                      | V 42                    | 68410                                     |                                           | U 32                       |           |
| 68397                                          |                                                                       | TH 20     | 68363                                   | M 15                                     |                                    | 68430                                      | V 54                    | 68410                                     |                                           | U 32                       |           |
| 68400                                          |                                                                       | TH 26     | 68365                                   | M 18                                     |                                    | 68421                                      | V 12                    | 68410                                     |                                           | U 32                       |           |
| 68401                                          |                                                                       | TH 32     | 68366                                   | M 22                                     |                                    | 68422                                      | V 14                    | 68410                                     |                                           | U 32                       |           |
| 68411                                          |                                                                       | U 40      | 68367                                   | M 28                                     |                                    | 68423                                      | V 15                    | 68410                                     |                                           | U 32                       |           |
| Bampi BALPEX<br>(serie MP)                     |                                                                       | 68412     | U 50                                    | CHIBRO<br>pressfitting                   |                                    | 68368                                      | M 35                    | Comap<br>SKINPress<br>Visu-Control Gas    |                                           | 68424                      | V 16      |
|                                                | 68413                                                                 | U 63 (63) | 68369                                   |                                          | M 42 (4G)                          | 68425                                      | V 18                    |                                           | 68407                                     | U 18                       |           |
|                                                | 68405                                                                 | U 14      | 68370                                   |                                          | M 54 (4G)                          | 68426                                      | V 22                    |                                           | 68408                                     | U 20                       |           |
|                                                | 68406                                                                 | U 16      | 68361                                   |                                          | M 12                               | 68427                                      | V 28                    |                                           | 68409                                     | U 25                       |           |
|                                                | 68407                                                                 | U 18      | 68363                                   |                                          | M 15                               | 68428                                      | V 35                    |                                           | 68410                                     | U 32                       |           |
|                                                | 68408                                                                 | U 20      | 68365                                   |                                          | M 18                               | 68429                                      | V 42                    |                                           | 68410                                     | U 32                       |           |
|                                                | 68409                                                                 | U 25      | 68366                                   |                                          | M 22                               | 68430                                      | V 54                    |                                           | 68410                                     | U 32                       |           |
|                                                | 68410                                                                 | U 32      | 68367                                   |                                          | M 28                               | 68421                                      | V 12                    |                                           | 68410                                     | U 32                       |           |
|                                                | 68411                                                                 | U 40      | 68368                                   |                                          | M 35                               | 68422                                      | V 14                    |                                           | 68410                                     | U 32                       |           |
|                                                | 68412                                                                 | U 50      | 68369                                   |                                          | M 42 (4G)                          | 68423                                      | V 15                    |                                           | 68410                                     | U 32                       |           |
| 68413                                          | U 63 (S)                                                              | 68370     | M 54 (4G)                               | 68424                                    | V 16                               | 68410                                      | U 32                    |                                           |                                           |                            |           |
| Bampi BALPEX<br>(serie MP)                     | 68414                                                                 | U 63 (S)  | CHIBRO<br>pressfitting Gas              | 68361                                    | M 12                               | Comap<br>SKINPress<br>Visu-Control Gas     | 68425                   | V 18                                      | EFFEBI<br>PRESSTIGE                       | 68410                      | U 32      |
|                                                | 68415                                                                 | US 1"     |                                         | 68363                                    | M 15                               |                                            | 68392                   | TH 14                                     |                                           | 68410                      | U 32      |
|                                                | 68420                                                                 | US 1.1/4" |                                         | 68365                                    | M 18                               |                                            | 68394                   | TH 16                                     |                                           | 68410                      | U 32      |
|                                                | 68392                                                                 | TH 14     |                                         | 68366                                    | M 22                               |                                            | 68396                   | TH 18                                     |                                           | 68410                      | U 32      |
|                                                | 68394                                                                 | TH 16     |                                         | 68367                                    | M 28                               |                                            | 68397                   | TH 20                                     |                                           | 68410                      | U 32      |
|                                                | 68396                                                                 | TH 18     |                                         | 68368                                    | M 35                               |                                            | 68400                   | TH 26                                     |                                           | 68410                      | U 32      |
|                                                | 68397                                                                 | TH 20     |                                         | 68379                                    | SA 12                              |                                            | 68401                   | TH 32                                     |                                           | 68410                      | U 32      |
|                                                | 68400                                                                 | TH 26     |                                         | 68380                                    | SA 14                              |                                            | 68402                   | TH 40                                     |                                           | 68410                      | U 32      |
|                                                | 68401                                                                 | TH 32     |                                         | 68381                                    | SA 15                              |                                            | 68403                   | TH 50 (S)                                 |                                           | 68410                      | U 32      |
|                                                | 68402                                                                 | TH 40     |                                         | 68382                                    | SA 16                              |                                            | 68404                   | TH 63 (S)                                 |                                           | 68410                      | U 32      |
| 68403                                          | TH 50 (S)                                                             | 68383     | SA 18                                   |                                          |                                    |                                            |                         |                                           |                                           |                            |           |

| SYSTEM                                               | COD.                                                   | TYPE                                    | SYSTEM                                     | COD.                                    | TYPE                                | SYSTEM                          | COD.                                       | TYPE                  | SYSTEM                                    | COD.                              | TYPE      |       |               |
|------------------------------------------------------|--------------------------------------------------------|-----------------------------------------|--------------------------------------------|-----------------------------------------|-------------------------------------|---------------------------------|--------------------------------------------|-----------------------|-------------------------------------------|-----------------------------------|-----------|-------|---------------|
| EFFEBI TOF<br>MULTIPINZA                             | 68394                                                  | TH 16                                   | F.B.Q. BARONIO<br>BQ press                 | 68421                                   | V 12                                | FRABO<br>FRABOPRESS<br>INOX 316 | 68421                                      | V 12                  | Geberit Mappress<br>EDELSTAHL             | 68361                             | M 12      |       |               |
|                                                      | 68396                                                  | TH 18                                   |                                            | 68422                                   | V 14                                |                                 | 68423                                      | V 15                  |                                           | 68363                             | M 15      |       |               |
|                                                      | 68397                                                  | TH 20                                   |                                            | 68423                                   | V 15                                |                                 | 68425                                      | V 18                  |                                           | 68365                             | M 18      |       |               |
|                                                      | 68400                                                  | TH 26                                   |                                            | 68424                                   | V 16                                |                                 | 68426                                      | V 22                  |                                           | 68366                             | M 22      |       |               |
|                                                      | 68401                                                  | TH 32                                   |                                            | 68425                                   | V 18                                |                                 | 68427                                      | V 28                  |                                           | 68367                             | M 28      |       |               |
|                                                      | 68312                                                  | F 16                                    |                                            | 68426                                   | V 22                                |                                 | 68428                                      | V 35                  |                                           | 68368                             | M 35      |       |               |
|                                                      | 68313                                                  | F 18                                    |                                            | 68427                                   | V 28                                |                                 | 68429                                      | V 42                  |                                           | 68369                             | M 42 (4G) |       |               |
|                                                      | 68314                                                  | F 20                                    |                                            | 68428                                   | V 35                                |                                 | 68430                                      | V 54                  |                                           | 68370                             | M 54 (4G) |       |               |
|                                                      | 68315                                                  | F 26                                    |                                            | 68429                                   | V 42                                |                                 | 68423                                      | V 15                  |                                           | 68363                             | M 15      |       |               |
|                                                      | 68316                                                  | F 32                                    |                                            | 68430                                   | V 54                                |                                 | 68425                                      | V 18                  |                                           | 68365                             | M 18      |       |               |
|                                                      | 68317                                                  | F 40                                    | F.B.Q. BARONIO<br>BQ press<br>Carbon steel | 68423                                   | V 15                                | 68426                           | V 22                                       | 68366                 | M 22                                      |                                   |           |       |               |
|                                                      | 68318                                                  | F 50                                    |                                            | 68425                                   | V 18                                | 68427                           | V 28                                       | 68367                 | M 28                                      |                                   |           |       |               |
|                                                      | 68319                                                  | F 63 (S)                                |                                            | 68426                                   | V 22                                | 68428                           | V 35                                       | 68368                 | M 35                                      |                                   |           |       |               |
|                                                      | 68330                                                  | H 16                                    |                                            | 68427                                   | V 28                                | 68429                           | V 42                                       | 68369                 | M 42 (4G)                                 |                                   |           |       |               |
|                                                      | 68332                                                  | H 18                                    |                                            | 68428                                   | V 35                                | 68430                           | V 54                                       | 68370                 | M 54 (4G)                                 |                                   |           |       |               |
|                                                      | 68333                                                  | H 20                                    |                                            | 68429                                   | V 42                                | 68423                           | V 15                                       | 68363                 | M 15                                      |                                   |           |       |               |
|                                                      | 68335                                                  | H 26                                    |                                            | 68430                                   | V 54                                | 68425                           | V 18                                       | 68365                 | M 18                                      |                                   |           |       |               |
|                                                      | 68336                                                  | H 32                                    |                                            | F.B.Q. BARONIO<br>BQ press Gas          | 68423                               | V 15                            | 68426                                      | V 22                  | 68366                                     | M 22                              |           |       |               |
|                                                      | 68406                                                  | U 16                                    |                                            |                                         | 68425                               | V 18                            | 68427                                      | V 28                  | 68367                                     | M 28                              |           |       |               |
|                                                      | 68407                                                  | U 18                                    |                                            |                                         | 68426                               | V 22                            | 68428                                      | V 35                  | 68368                                     | M 35                              |           |       |               |
|                                                      | 68408                                                  | U 20                                    | 68427                                      |                                         | V 28                                | 68429                           | V 42                                       | 68369                 | M 42 (4G)                                 |                                   |           |       |               |
|                                                      | 68409                                                  | U 25                                    | 68428                                      |                                         | V 35                                | 68430                           | V 54                                       | 68370                 | M 54 (4G)                                 |                                   |           |       |               |
|                                                      | 68306                                                  | C 26                                    | 68429                                      |                                         | V 42                                | 68394                           | TH 16                                      | 68363                 | M 15                                      |                                   |           |       |               |
|                                                      | 68410                                                  | U 32                                    | 68430                                      |                                         | V 54                                | 68397                           | TH 20                                      | 68365                 | M 18                                      |                                   |           |       |               |
|                                                      | 68301                                                  | B 16                                    | FELSINEA TECH<br>Felsineapress             |                                         | 68392                               | TH 14                           | 68400                                      | TH 26                 | 68366                                     | M 22                              |           |       |               |
|                                                      | 68302                                                  | B 18                                    |                                            |                                         | 68393                               | TH 15                           | 68401                                      | TH 32                 | 68367                                     | M 28                              |           |       |               |
|                                                      | 68303                                                  | B 20                                    |                                            |                                         | 68394                               | TH 16                           | 68402                                      | TH 40                 | 68368                                     | M 35                              |           |       |               |
|                                                      | 68304                                                  | B 26                                    |                                            | 68395                                   | TH 18                               | 68403                           | TH 50 (S)                                  | 68369                 | M 42 (4G)                                 |                                   |           |       |               |
|                                                      | 68305                                                  | B 32                                    |                                            | 68397                                   | TH 20                               | 68404                           | TH 63 (S)                                  | 68370                 | M 54 (4G)                                 |                                   |           |       |               |
|                                                      | Egeda Comisa                                           | 68394                                   |                                            | TH 16                                   | 68406                               | U 16                            | FRABO<br>FRABOPRESS<br>MULTI-BRASS<br>(MB) | 68406                 | U 16                                      | Geberit Mappress<br>KUPFER<br>Gas | 68361     | M 12  |               |
|                                                      |                                                        | 68397                                   |                                            | TH 20                                   | 68407                               | U 18                            |                                            | 68397                 | TH 20                                     |                                   | 68363     | M 15  |               |
|                                                      |                                                        | 68400                                   |                                            | TH 26                                   | 68408                               | U 20                            |                                            | 68400                 | TH 26                                     |                                   | 68365     | M 18  |               |
|                                                      |                                                        | 68401                                   |                                            | TH 32                                   | 68409                               | U 25                            |                                            | 68401                 | TH 32                                     |                                   | 68366     | M 22  |               |
|                                                      |                                                        | 68402                                   |                                            | TH 40                                   | 68410                               | U 32                            |                                            | 68402                 | U 20                                      |                                   | 68367     | M 28  |               |
|                                                      |                                                        | Egeda Baronio                           | 68421                                      | V 12                                    | Fercofloor<br>DUO Press<br>MULTIFER | 68406                           |                                            | U 16                  | FRABO<br>FRABOPRESS<br>MULTI-PLUS<br>(MP) |                                   | 68406     | U 16  | Geberit Mepla |
|                                                      | 68423                                                  |                                         | V 15                                       | 68407                                   |                                     | U 18                            | 68397                                      | TH 20                 |                                           | 68321                             | G 20      |       |               |
|                                                      | 68425                                                  |                                         | V 18                                       | 68408                                   |                                     | U 20                            | 68399                                      | TH 25                 |                                           | 68322                             | G 26      |       |               |
|                                                      | 68426                                                  |                                         | V 22                                       | 68409                                   |                                     | U 25                            | 68400                                      | TH 26                 |                                           | 68323                             | G 32      |       |               |
|                                                      | 68427                                                  |                                         | V 28                                       | 68410                                   |                                     | U 32                            | 68312                                      | F 16                  |                                           | 68324                             | G 40      |       |               |
|                                                      | 68428                                                  |                                         | V 35                                       | FILTUBE Filpress                        |                                     | 68368                           | M 35                                       | 68313                 |                                           | F 18                              | 68325     | G 50  |               |
| 68429                                                | V 42                                                   | 68369                                   | M 42 (4G)                                  |                                         | 68314                               | F 20                            | 68326                                      | G 63 (S)              |                                           |                                   |           |       |               |
| 68430                                                | V 54                                                   | 68370                                   | M 54 (4G)                                  |                                         | 68315                               | F 26                            | 68394                                      | TH 16                 |                                           |                                   |           |       |               |
| Elkhart XPRESS                                       | 68442                                                  | VUS 1.1/4"                              | FILTUBE<br>Instalpress<br>Carbon Steel     |                                         | 68363                               | M 15                            | Fränkische<br>alpeX-duo                    | 68316                 | F 32                                      | 68396                             | TH 18     |       |               |
|                                                      | 68444                                                  | VUS 1.1/2"                              |                                            |                                         | 68365                               | M 18                            |                                            | 68317                 | F 40                                      | 68397                             | TH 20     |       |               |
|                                                      | 68441                                                  | VUS 1"                                  |                                            |                                         | 68366                               | M 22                            |                                            | 68318                 | F 50                                      | 68399                             | TH 25     |       |               |
|                                                      | 68440                                                  | VUS 3/4"                                |                                            | 68367                                   | M 28                                | 68319                           |                                            | F 63 (S)              | 68400                                     | TH 26                             |           |       |               |
|                                                      | 68439                                                  | VUS 1/2"                                |                                            | 68368                                   | M 35                                | 68312                           |                                            | F 16                  | 68401                                     | TH 32                             |           |       |               |
|                                                      | 68443                                                  | VUS 2"                                  |                                            | 68369                                   | M 42 (4G)                           | 68314                           |                                            | F 20                  | 68402                                     | TH 40                             |           |       |               |
| EMMETI GERPEX-<br>FIVPRESS                           | 68394                                                  | TH 16                                   | FILTUBE<br>Instalpress<br>Copper           | 68370                                   | M 54 (4G)                           | Fränkische<br>alpeX F50 PROF1   | 68315                                      | F 26                  | 68403                                     | TH 50 (S)                         |           |       |               |
|                                                      | 68397                                                  | TH 20                                   |                                            | 68363                                   | M 15                                |                                 | 68316                                      | F 32                  | 68404                                     | U 16                              |           |       |               |
|                                                      | 68400                                                  | TH 26                                   |                                            | 68365                                   | M 18                                |                                 | 68317                                      | F 40                  | 68408                                     | U 20                              |           |       |               |
|                                                      | 68401                                                  | TH 32                                   |                                            | 68366                                   | M 22                                |                                 | 68318                                      | F 50                  | 68410                                     | U 32                              |           |       |               |
|                                                      | 68301                                                  | B 16                                    |                                            | 68367                                   | M 28                                |                                 | 68319                                      | F 63 (S)              | 68411                                     | U 40                              |           |       |               |
|                                                      | 68303                                                  | B 20                                    |                                            | 68368                                   | M 35                                |                                 | 68312                                      | F 16                  | 68412                                     | U 50                              |           |       |               |
|                                                      | 68304                                                  | B 26                                    |                                            | 68369                                   | M 42 (4G)                           |                                 | 68314                                      | F 20                  | 68392                                     | TH 14                             |           |       |               |
|                                                      | 68305                                                  | B 32                                    |                                            | 68370                                   | M 54 (4G)                           |                                 | 68315                                      | F 26                  | 68394                                     | TH 16                             |           |       |               |
|                                                      | EMPUR                                                  | 68392                                   |                                            | TH 14                                   | FILTUBE<br>Instalpress<br>Inox      |                                 | 68363                                      | M 15                  | Fränkische<br>alpeX-gas                   | 68316                             | F 32      | 68395 | TH 17         |
|                                                      |                                                        | 68393                                   |                                            | TH 15                                   |                                     |                                 | 68365                                      | M 18                  |                                           | 68317                             | F 40      | 68396 | TH 18         |
| 68394                                                |                                                        | TH 16                                   | 68366                                      | M 22                                    |                                     | 68318                           | F 50                                       | 68397                 |                                           | TH 20                             |           |       |               |
| 68395                                                |                                                        | TH 17                                   | 68367                                      | M 28                                    |                                     | 68319                           | F 63 (S)                                   | 68400                 |                                           | TH 26                             |           |       |               |
| 68397                                                |                                                        | TH 20                                   | 68368                                      | M 35                                    |                                     | 68312                           | F 16                                       | 68401                 |                                           | TH 32                             |           |       |               |
| 68398                                                |                                                        | TH 25                                   | 68369                                      | M 42 (4G)                               |                                     | 68314                           | F 20                                       | 68402                 |                                           | TH 40                             |           |       |               |
| 68361                                                |                                                        | M 12                                    | 68370                                      | M 54 (4G)                               |                                     | 68315                           | F 26                                       | 68403                 |                                           | TH 50 (S)                         |           |       |               |
| EUROTUBI Europa<br>C-STAHl<br>PRESSFITTING<br>SYSTEM |                                                        | 68363                                   | M 15                                       | Fimisol<br>HAKAPRESS                    |                                     | 68406                           | U 16                                       | Fränkische<br>alpeX L |                                           | 68316                             | F 32      | 68404 | U 16          |
|                                                      |                                                        | 68365                                   | M 18                                       |                                         |                                     | 68407                           | U 18                                       |                       |                                           | 68317                             | F 40      | 68408 | U 20          |
|                                                      |                                                        | 68366                                   | M 22                                       |                                         |                                     | 68408                           | U 20                                       |                       |                                           | 68318                             | F 50      | 68410 | U 32          |
|                                                      | 68367                                                  | M 28                                    | 68409                                      |                                         | U 25                                | 68319                           | F 63 (S)                                   |                       | 68411                                     | U 40                              |           |       |               |
|                                                      | 68368                                                  | M 35                                    | 68410                                      |                                         | U 32                                | 68312                           | F 16                                       |                       | 68392                                     | TH 14                             |           |       |               |
|                                                      | 68369                                                  | M 42 (4G)                               | Fittings Estándar<br>MULTICAPA             |                                         | 68406                               | U 16                            | 68314                                      |                       | F 20                                      | 68394                             | TH 16     |       |               |
|                                                      | 68370                                                  | M 54 (4G)                               |                                            |                                         | 68407                               | U 18                            | 68315                                      |                       | F 26                                      | 68395                             | TH 17     |       |               |
|                                                      | EUROTUBI INOX<br>Europa INOX<br>PRESSFITTING<br>SYSTEM | 68392                                   |                                            |                                         | TH 14                               | 68408                           | U 20                                       |                       | 68316                                     | F 32                              | 68396     | TH 18 |               |
|                                                      |                                                        | 68394                                   |                                            |                                         | TH 16                               | 68409                           | U 25                                       |                       | 68317                                     | F 40                              | 68397     | TH 20 |               |
|                                                      |                                                        | 68396                                   |                                            |                                         | TH 18                               | 68410                           | U 32                                       |                       | 68318                                     | F 50                              | 68400     | TH 26 |               |
| 68397                                                |                                                        | TH 20                                   |                                            | Fittings Estándar<br>PE-X               | 68406                               | U 16                            | 68319                                      | F 63 (S)              | 68401                                     | TH 32                             |           |       |               |
| 68398                                                |                                                        | TH 25                                   |                                            |                                         | 68407                               | U 18                            | 68312                                      | F 16                  | 68402                                     | TH 40                             |           |       |               |
| 68399                                                |                                                        | TH 26                                   |                                            |                                         | 68408                               | U 20                            | 68314                                      | F 20                  | 68403                                     | TH 50 (S)                         |           |       |               |
| 68400                                                |                                                        | TH 26                                   |                                            |                                         | 68409                               | U 25                            | 68315                                      | F 26                  | 68404                                     | TH 63 (S)                         |           |       |               |
| 68401                                                |                                                        | TH 32                                   |                                            |                                         | 68410                               | U 32                            | 68316                                      | F 32                  | 68406                                     | U 16                              |           |       |               |
| 68402                                                |                                                        | TH 40                                   | FOHS<br>HEIZTECHNIK<br>FOHSPRESS           |                                         | 68406                               | U 16                            | 68317                                      | F 40                  | 68408                                     | U 20                              |           |       |               |
| 68403                                                |                                                        | TH 50 (S)                               |                                            |                                         | 68330                               | H 16                            | 68318                                      | F 50                  | 68410                                     | U 32                              |           |       |               |
| 68404                                                | TH 63 (S)                                              | 68333                                   |                                            |                                         | H 20                                | 68319                           | F 63 (S)                                   | 68411                 | U 40                                      |                                   |           |       |               |
| 68329                                                | TH 14                                                  | 68335                                   |                                            |                                         | H 26                                | 68312                           | F 16                                       | 68392                 | TH 14                                     |                                   |           |       |               |
| 68330                                                | H 16                                                   | 68336                                   |                                            |                                         | H 32                                | 68314                           | F 20                                       | 68394                 | TH 16                                     |                                   |           |       |               |
| 68332                                                | H 18                                                   | 68394                                   |                                            | TH 16                                   | 68315                               | F 26                            | 68395                                      | TH 17                 |                                           |                                   |           |       |               |
| 68333                                                | H 20                                                   | 68397                                   |                                            | TH 20                                   | 68316                               | F 32                            | 68396                                      | TH 18                 |                                           |                                   |           |       |               |
| 68335                                                | H 26                                                   | 68398                                   |                                            | TH 25                                   | 68317                               | F 40                            | 68397                                      | TH 20                 |                                           |                                   |           |       |               |
| 68336                                                | H 32                                                   | 68399                                   |                                            | TH 26                                   | 68318                               | F 50                            | 68400                                      | TH 26                 |                                           |                                   |           |       |               |
| 68337                                                | H 40 (4G)                                              | 68400                                   |                                            | TH 32                                   | 68319                               | F 63 (S)                        | 68392                                      | TH 14                 |                                           |                                   |           |       |               |
| 68405                                                | U 14                                                   | 68401                                   | TH 40                                      | 68312                                   | F 16                                | 68394                           | TH 16                                      |                       |                                           |                                   |           |       |               |
| 68406                                                | U 16                                                   | 68402                                   | TH 40                                      | 68314                                   | F 20                                | 68395                           | TH 17                                      |                       |                                           |                                   |           |       |               |
| 68407                                                | U 18                                                   | 68403                                   | TH 50 (S)                                  | 68315                                   | F 26                                | 68396                           | TH 18                                      |                       |                                           |                                   |           |       |               |
| 68408                                                | U 20                                                   | 68404                                   | TH 63 (S)                                  | 68316                                   | F 32                                | 68397                           | TH 20                                      |                       |                                           |                                   |           |       |               |
| 68409                                                | U 25                                                   | 68421                                   | V 12                                       | 68317                                   | F 40                                | 68400                           | TH 26                                      |                       |                                           |                                   |           |       |               |
| 68410                                                | U 32                                                   | 68423                                   | V 15                                       | 68318                                   | F 50                                | 68392                           | TH 14                                      |                       |                                           |                                   |           |       |               |
| 68411                                                | U 40                                                   | 68425                                   | V 18                                       | 68319                                   | F 63 (S)                            | 68394                           | TH 16                                      |                       |                                           |                                   |           |       |               |
| 68412                                                | U 50                                                   | 68426                                   | V 22                                       | 68312                                   | F 16                                | 68395                           | TH 17                                      |                       |                                           |                                   |           |       |               |
| 68413                                                | U 63 (S)                                               | 68427                                   | V 28                                       | 68314                                   | F 20                                | 68396                           | TH 18                                      |                       |                                           |                                   |           |       |               |
| FAR Rubinetterie<br>PRESSFAR                         | 68406                                                  | U 16                                    | 68428                                      | V 35                                    | 68315                               | F 26                            | 68397                                      | TH 20                 |                                           |                                   |           |       |               |
|                                                      | 68407                                                  | U 18                                    | 68429                                      | V 42                                    | 68316                               | F 32                            | 68400                                      | TH 26                 |                                           |                                   |           |       |               |
|                                                      | 68408                                                  | U 20                                    | 68430                                      | V 54                                    | 68317                               | F 40                            | 68392                                      | TH 14                 |                                           |                                   |           |       |               |
|                                                      | 68409                                                  | U 25                                    | FRABO<br>FRABOPRESS<br>RAME (Cu)           | 68421                                   | V 12                                | 68318                           | F 50                                       | 68394                 | TH 16                                     |                                   |           |       |               |
|                                                      | 68410                                                  | U 32                                    |                                            | 68423                                   | V 15                                | 68319                           | F 63 (S)                                   | 68395                 | TH 17                                     |                                   |           |       |               |
|                                                      | 68411                                                  | U 40                                    |                                            | 68425                                   | V 18                                | 68312                           | F 16                                       | 68396                 | TH 18                                     |                                   |           |       |               |
|                                                      | 68412                                                  | U 50                                    |                                            | 68426                                   | V 22                                | 68314                           | F 20                                       | 68397                 | TH 20                                     |                                   |           |       |               |
|                                                      | 68413                                                  | U 63 (S)                                |                                            | 68427                                   | V 28                                | 68315                           | F 26                                       | 68400                 | TH 26                                     |                                   |           |       |               |
|                                                      | Geberit Mappress<br>C-STAHl                            | 68361                                   |                                            | M 12                                    | 68428                               | V 35                            | 68316                                      | F 32                  | 68392                                     | TH 14                             |           |       |               |
|                                                      |                                                        | 68363                                   |                                            | M 15                                    | 68429                               | V 42                            | 68317                                      | F 40                  | 68394                                     | TH 16                             |           |       |               |
| 68365                                                |                                                        | M 18                                    |                                            | 68430                                   | V 54                                | 68318                           | F 50                                       | 68395                 | TH 17                                     |                                   |           |       |               |
| 68366                                                |                                                        | M 22                                    |                                            | FRABO<br>FRABOPRESS<br>RAME (Cu)<br>Gas | 68421                               | V 12                            | 68319                                      | F 63 (S)              | 68396                                     | TH 18                             |           |       |               |
| 68367                                                |                                                        | M 28                                    |                                            |                                         | 68423                               | V 15                            | 68312                                      | F 16                  | 68397                                     | TH 20                             |           |       |               |
| 68368                                                |                                                        | M 35                                    | 68425                                      |                                         | V 18                                | 68314                           | F 20                                       | 68400                 | TH 26                                     |                                   |           |       |               |
| 68369                                                |                                                        | M 42 (4G)                               | 68426                                      |                                         | V 22                                | 68315                           | F 26                                       | 68392                 | TH 14                                     |                                   |           |       |               |
| 68370                                                |                                                        | M 54 (4G)                               | 68427                                      |                                         | V 28                                | 68316                           | F 32                                       | 68394                 | TH 16                                     |                                   |           |       |               |
| Gibaco fittings<br>COPPER<br>C6000/B8000             |                                                        | 68394                                   | TH 16                                      |                                         | 68428                               | V 35                            | 68317                                      | F 40                  | 68395                                     | TH 17                             |           |       |               |
|                                                      |                                                        | 68397                                   | TH 20                                      |                                         | 68429                               | V 42                            | 68318                                      | F 50                  | 68396                                     | TH 18                             |           |       |               |
|                                                      | 68400                                                  | TH 26                                   | 68430                                      |                                         | V 54                                | 68319                           | F 63 (S)                                   | 68397                 | TH 20                                     |                                   |           |       |               |
|                                                      | 68401                                                  | TH 32                                   | FRABO<br>FRABOPRESS<br>RAME (Cu)<br>Gas    |                                         | 68421                               | V 12                            | 68312                                      | F 16                  | 68400                                     | TH 26                             |           |       |               |
|                                                      | 68402                                                  | TH 40                                   |                                            |                                         | 68423                               | V 15                            | 68314                                      | F 20                  | 68392                                     | TH 14                             |           |       |               |
|                                                      | 68403                                                  | TH 50 (S)                               |                                            | 68425                                   | V 18                                | 68315                           | F 26                                       | 68394                 | TH 16                                     |                                   |           |       |               |
|                                                      | 68404                                                  | TH 63 (S)                               |                                            | 68426                                   | V 22                                | 68316                           | F 32                                       | 68395                 | TH 17                                     |                                   |           |       |               |
|                                                      | 68406                                                  | U 16                                    |                                            | 68427                                   | V 28                                | 68317                           | F 40                                       | 68396                 | TH 18                                     |                                   |           |       |               |
|                                                      | 68407                                                  | U 18                                    |                                            | 68428                                   | V 35                                | 68318                           | F 50                                       | 68397                 | TH 20                                     |                                   |           |       |               |
|                                                      | 68408                                                  | U 20                                    |                                            | 68429                                   | V 42                                | 68319                           | F 63 (S)                                   | 68400                 | TH 26                                     |                                   |           |       |               |
| 68409                                                | U 25                                                   | 68430                                   |                                            | V 54                                    | 68312                               | F 16                            | 68423                                      | V 15                  |                                           |                                   |           |       |               |
| 68410                                                | U 32                                                   | FRABO<br>FRABOPRESS<br>RAME (Cu)<br>Gas |                                            | 68421                                   | V 12                                | 68425                           | V 18                                       | 68425                 | V 18                                      |                                   |           |       |               |
| 68411                                                | U 40                                                   |                                         |                                            | 68423                                   | V 15                                | 68426                           | V 22                                       | 68426                 | V 22                                      |                                   |           |       |               |
| 68412                                                | U 50                                                   |                                         | 68425                                      | V 18                                    | 68427                               | V 28                            | 68427                                      | V 28                  |                                           |                                   |           |       |               |
| 68413                                                | U 63 (S)                                               |                                         | 68426                                      | V 22                                    | 68428                               | V 35                            | 68428                                      | V 35                  |                                           |                                   |           |       |               |
| Gibaco fittings<br>G-Flex-Press<br>5900              | 68394                                                  |                                         | TH 16                                      | 68427                                   | V 28                                | 68429                           | V 42                                       | 68429                 | V 42                                      |                                   |           |       |               |
|                                                      | 68397                                                  |                                         | TH 20                                      | 68428                                   | V 35                                | 68430                           | V 54                                       | 68430                 | V 54                                      |                                   |           |       |               |
|                                                      | 68400                                                  |                                         | TH 26                                      | 68429                                   | V 42                                | 68421                           | V 12                                       | 68421                 | V 12                                      |                                   |           |       |               |
|                                                      | 68401                                                  |                                         | TH 32                                      | 68430                                   | V 54                                | 68423                           | V 15                                       | 68423                 | V 15                                      |                                   |           |       |               |
|                                                      | 68402                                                  |                                         | TH 40                                      | FRABO<br>FRABOPRESS<br>RAME (Cu)<br>Gas | 68423                               | V 15                            | 68425                                      | V 18                  | 68425                                     | V 18                              |           |       |               |
|                                                      | 68403                                                  |                                         | TH 50 (S)                                  |                                         | 68425                               | V 18                            | 68426                                      | V 22                  | 68426                                     | V 22                              |           |       |               |
|                                                      | 68404                                                  | TH 63 (S)                               | 68426                                      |                                         | V 22                                | 68427                           | V 28                                       | 68427                 | V 28                                      |                                   |           |       |               |
|                                                      | 68406                                                  | U 16                                    | 68427                                      |                                         | V 28                                | 68428                           | V 35                                       | 68428                 | V 35                                      |                                   |           |       |               |
|                                                      | 68407                                                  | U 18                                    | 68428                                      |                                         | V 35                                | 68429                           | V 42                                       | 68429                 | V 42                                      |                                   |           |       |               |
|                                                      | 68408                                                  | U 20                                    | 68429                                      |                                         | V 42                                | 68430                           |                                            |                       |                                           |                                   |           |       |               |



| SYSTEM                                                         | COD.      | TYPE      | SYSTEM                               | COD.  | TYPE  | SYSTEM                                                   | COD.      | TYPE      | SYSTEM | COD.  | TYPE      |
|----------------------------------------------------------------|-----------|-----------|--------------------------------------|-------|-------|----------------------------------------------------------|-----------|-----------|--------|-------|-----------|
| Gibaco fittings<br>PRESS-INOX<br>2200                          | 68361     | M 12      | Henco                                | 68392 | TH 14 | IPAI IPANA-Press                                         | 68389     | TH 10     | KAN    | 68406 | U 16      |
|                                                                | 68363     | M 15      |                                      | 68394 | TH 16 |                                                          | 68390     | TH 11,6   |        | 68408 | U 20      |
|                                                                | 68365     | M 18      |                                      | 68396 | TH 18 |                                                          | 68391     | TH 12     |        | 68306 | C 26      |
|                                                                | 68366     | M 22      |                                      | 68397 | TH 20 |                                                          | 68392     | TH 14     |        | 68409 | U 25      |
|                                                                | 68367     | M 28      |                                      | 68400 | TH 26 |                                                          | 68393     | TH 15     |        | 68410 | U 32      |
|                                                                | 68368     | M 35      |                                      | 68349 | HE 32 |                                                          | 68394     | TH 16     |        | 68411 | U 40      |
|                                                                | 68369     | M 42 (4G) |                                      | 68394 | TH 16 |                                                          | 68395     | TH 16     |        | 68403 | TH 50 (S) |
| 68370                                                          | M 54 (4G) | 68401     | TH 26                                | 68396 | TH 17 | 68404                                                    | TH 63 (S) |           |        |       |           |
| Gibaco fittings<br>PRESS-STEEL<br>2300                         | 68361     | M 12      | Henco Gas                            | 68392 | TH 14 | IPALPEX<br>(Industrie du<br>Plastique et<br>Accessoires) | 68392     | TH 14     | KAN    | 68406 | U 16      |
|                                                                | 68363     | M 15      |                                      | 68394 | TH 16 |                                                          | 68394     | TH 16     |        | 68408 | U 20      |
|                                                                | 68365     | M 18      |                                      | 68396 | TH 18 |                                                          | 68395     | TH 16     |        | 68409 | U 25      |
|                                                                | 68366     | M 22      |                                      | 68397 | TH 20 |                                                          | 68396     | TH 17     |        | 68306 | C 26      |
|                                                                | 68367     | M 28      |                                      | 68400 | TH 26 |                                                          | 68397     | TH 20     |        | 68410 | U 32      |
|                                                                | 68368     | M 35      |                                      | 68401 | TH 32 |                                                          | 68400     | TH 26     |        | 68411 | U 40      |
|                                                                | 68369     | M 42 (4G) |                                      | 68392 | TH 14 |                                                          | 68401     | TH 32     |        | 68403 | TH 50 (S) |
| 68370                                                          | M 54 (4G) | 68394     | TH 16                                | 68402 | TH 40 | 68404                                                    | TH 63 (S) |           |        |       |           |
| Ginde Press<br>Fitting for Ginde<br>Multi-layer Pipe<br>System | 68406     | U 16      | Herotec<br>Tempuss-press             | 68389 | TH 10 | ISOLTUBEX<br>Multicapa                                   | 68392     | TH 14     | KAN    | 68406 | U 16      |
|                                                                | 68408     | U 20      |                                      | 68392 | TH 14 |                                                          | 68394     | TH 16     |        | 68408 | U 20      |
|                                                                | 68409     | U 25      |                                      | 68394 | TH 16 |                                                          | 68395     | TH 16     |        | 68409 | U 25      |
|                                                                | 68410     | U 32      |                                      | 68396 | TH 18 |                                                          | 68396     | TH 17     |        | 68306 | C 26      |
|                                                                | 68394     | TH 16     |                                      | 68397 | TH 20 |                                                          | 68397     | TH 20     |        | 68410 | U 32      |
|                                                                | 68396     | TH 18     |                                      | 68400 | TH 26 |                                                          | 68400     | TH 26     |        | 68411 | U 40      |
|                                                                | 68397     | TH 20     |                                      | 68401 | TH 32 |                                                          | 68401     | TH 32     |        | 68403 | TH 50 (S) |
| 68398                                                          | TH 25     | 68402     | TH 40                                | 68402 | TH 40 | 68404                                                    | TH 63 (S) |           |        |       |           |
| Global plastic<br>Rothapress                                   | 68401     | TH 32     | Herz Pipefix                         | 68389 | TH 10 | IPALPEX<br>(Industrie du<br>Plastique et<br>Accessoires) | 68411     | U 40      | KAN    | 68406 | U 16      |
|                                                                | 68402     | TH 40     |                                      | 68392 | TH 14 |                                                          | 68394     | TH 16     |        | 68408 | U 20      |
|                                                                | 68403     | TH 50 (S) |                                      | 68394 | TH 16 |                                                          | 68395     | TH 16     |        | 68409 | U 25      |
|                                                                | 68404     | TH 63 (S) |                                      | 68396 | TH 18 |                                                          | 68396     | TH 17     |        | 68306 | C 26      |
|                                                                | 68406     | U 16      |                                      | 68397 | TH 20 |                                                          | 68397     | TH 20     |        | 68410 | U 32      |
|                                                                | 68408     | U 20      |                                      | 68400 | TH 26 |                                                          | 68400     | TH 26     |        | 68411 | U 40      |
|                                                                | 68409     | U 25      |                                      | 68401 | TH 32 |                                                          | 68401     | TH 32     |        | 68403 | TH 50 (S) |
| 68410                                                          | U 32      | 68402     | TH 40                                | 68402 | TH 40 | 68404                                                    | TH 63 (S) |           |        |       |           |
| GLOBAL<br>TRADE<br>aqualpress<br>system                        | 68406     | U 16      | HITEC Sistema<br>Multistrato         | 68421 | V 12  | ISOLTUBEX<br>Multicapa                                   | 68412     | U 50      | KAN    | 68406 | U 16      |
|                                                                | 68408     | U 20      |                                      | 68422 | V 14  |                                                          | 68412     | U 50      |        | 68408 | U 20      |
|                                                                | 68409     | U 25      |                                      | 68423 | V 15  |                                                          | 68413     | U 63 (S)  |        | 68409 | U 25      |
|                                                                | 68410     | U 32      |                                      | 68424 | V 16  |                                                          | 68363     | M 15      |        | 68410 | U 32      |
|                                                                | 68411     | U 40      |                                      | 68425 | V 18  |                                                          | 68365     | M 18      |        | 68411 | U 40      |
|                                                                | 68412     | U 50      |                                      | 68426 | V 22  |                                                          | 68366     | M 22      |        | 68412 | U 50      |
|                                                                | 68413     | U 63 (S)  |                                      | 68427 | V 28  |                                                          | 68367     | M 28      |        | 68413 | U 63 (S)  |
| Golan Pipe<br>Systems<br>(Scandinavia)<br>Alu-pres             | 68392     | TH 14     | Hydro-Air<br>Systems                 | 68427 | V 28  | ISOTUBI<br>NUMEPRESS                                     | 68368     | M 35      | KAN    | 68406 | U 16      |
|                                                                | 68394     | TH 16     |                                      | 68428 | V 35  |                                                          | 68365     | M 18      |        | 68408 | U 20      |
|                                                                | 68396     | TH 18     |                                      | 68429 | V 42  |                                                          | 68366     | M 22      |        | 68409 | U 25      |
|                                                                | 68397     | TH 20     |                                      | 68430 | V 54  |                                                          | 68367     | M 28      |        | 68410 | U 32      |
|                                                                | 68398     | TH 25     |                                      | 68421 | V 12  |                                                          | 68368     | M 35      |        | 68411 | U 40      |
|                                                                | 68401     | TH 32     |                                      | 68422 | V 14  |                                                          | 68303     | B 20      |        | 68412 | U 50      |
|                                                                | 68402     | TH 40     |                                      | 68423 | V 15  |                                                          | 68304     | B 26      |        | 68413 | U 63 (S)  |
| GLOBAL<br>TRADE<br>aqualpress<br>system                        | 68406     | U 16      | Hydro-Air<br>Systems<br>Plus Pex     | 68424 | V 16  | IVAR<br>MULTIPRESS                                       | 68317     | F 40      | KAN    | 68406 | U 16      |
|                                                                | 68408     | U 20      |                                      | 68425 | V 18  |                                                          | 68318     | F 50      |        | 68408 | U 20      |
|                                                                | 68409     | U 25      |                                      | 68426 | V 22  |                                                          | 68319     | F 63 (S)  |        | 68409 | U 25      |
|                                                                | 68410     | U 32      |                                      | 68427 | V 28  |                                                          | 68320     | B 14      |        | 68410 | U 32      |
|                                                                | 68411     | U 40      |                                      | 68428 | V 35  |                                                          | 68321     | B 16      |        | 68411 | U 40      |
|                                                                | 68412     | U 50      |                                      | 68429 | V 42  |                                                          | 68322     | H 18      |        | 68412 | U 50      |
|                                                                | 68413     | U 63 (S)  |                                      | 68430 | V 54  |                                                          | 68323     | H 20      |        | 68413 | U 63 (S)  |
| Golan Pipe<br>Systems<br>(Scandinavia)<br>Alu-pres             | 68392     | TH 14     | Hydro-Air<br>Systems<br>U 16 (1/2")  | 68421 | V 12  | IVAR<br>MULTIPRESS                                       | 68324     | H 26      | KAN    | 68406 | U 16      |
|                                                                | 68394     | TH 16     |                                      | 68422 | V 14  |                                                          | 68325     | H 32      |        | 68408 | U 20      |
|                                                                | 68396     | TH 18     |                                      | 68423 | V 15  |                                                          | 68326     | H 40      |        | 68409 | U 25      |
|                                                                | 68397     | TH 20     |                                      | 68424 | V 16  |                                                          | 68327     | H 48      |        | 68410 | U 32      |
|                                                                | 68398     | TH 25     |                                      | 68425 | V 18  |                                                          | 68328     | H 54      |        | 68411 | U 40      |
|                                                                | 68401     | TH 32     |                                      | 68426 | V 22  |                                                          | 68329     | H 60      |        | 68412 | U 50      |
|                                                                | 68402     | TH 40     |                                      | 68427 | V 28  |                                                          | 68330     | H 66      |        | 68413 | U 63 (S)  |
| GLOBAL<br>TRADE<br>aqualpress<br>system                        | 68406     | U 16      | Hydro-Flex<br>PEX-AL-PEX             | 68428 | V 35  | IVAR<br>MULTIPRESS                                       | 68331     | H 72      | KAN    | 68406 | U 16      |
|                                                                | 68408     | U 20      |                                      | 68429 | V 42  |                                                          | 68332     | H 78      |        | 68408 | U 20      |
|                                                                | 68409     | U 25      |                                      | 68430 | V 54  |                                                          | 68333     | H 84      |        | 68409 | U 25      |
|                                                                | 68410     | U 32      |                                      | 68421 | V 12  |                                                          | 68334     | H 90      |        | 68410 | U 32      |
|                                                                | 68411     | U 40      |                                      | 68422 | V 14  |                                                          | 68335     | H 96      |        | 68411 | U 40      |
|                                                                | 68412     | U 50      |                                      | 68423 | V 15  |                                                          | 68336     | H 102     |        | 68412 | U 50      |
|                                                                | 68413     | U 63 (S)  |                                      | 68424 | V 16  |                                                          | 68337     | H 108     |        | 68413 | U 63 (S)  |
| Golan Pipe<br>Systems<br>(Scandinavia)<br>Alu-pres             | 68392     | TH 14     | IBP >B< press                        | 68425 | V 18  | IVAR<br>MULTIPRESS                                       | 68338     | H 114     | KAN    | 68406 | U 16      |
|                                                                | 68394     | TH 16     |                                      | 68426 | V 22  |                                                          | 68339     | H 120     |        | 68408 | U 20      |
|                                                                | 68396     | TH 18     |                                      | 68427 | V 28  |                                                          | 68340     | H 126     |        | 68409 | U 25      |
|                                                                | 68397     | TH 20     |                                      | 68428 | V 35  |                                                          | 68341     | H 132     |        | 68410 | U 32      |
|                                                                | 68398     | TH 25     |                                      | 68429 | V 42  |                                                          | 68342     | H 138     |        | 68411 | U 40      |
|                                                                | 68401     | TH 32     |                                      | 68430 | V 54  |                                                          | 68343     | H 144     |        | 68412 | U 50      |
|                                                                | 68402     | TH 40     |                                      | 68421 | V 12  |                                                          | 68344     | H 150     |        | 68413 | U 63 (S)  |
| GLOBAL<br>TRADE<br>aqualpress<br>system                        | 68406     | U 16      | IBP >B< press<br>GAS                 | 68422 | V 14  | IVAR<br>MULTIPRESS                                       | 68345     | H 156     | KAN    | 68406 | U 16      |
|                                                                | 68408     | U 20      |                                      | 68423 | V 15  |                                                          | 68346     | H 162     |        | 68408 | U 20      |
|                                                                | 68409     | U 25      |                                      | 68424 | V 16  |                                                          | 68347     | H 168     |        | 68409 | U 25      |
|                                                                | 68410     | U 32      |                                      | 68425 | V 18  |                                                          | 68348     | H 174     |        | 68410 | U 32      |
|                                                                | 68411     | U 40      |                                      | 68426 | V 22  |                                                          | 68349     | H 180     |        | 68411 | U 40      |
|                                                                | 68412     | U 50      |                                      | 68427 | V 28  |                                                          | 68350     | H 186     |        | 68412 | U 50      |
|                                                                | 68413     | U 63 (S)  |                                      | 68428 | V 35  |                                                          | 68351     | H 192     |        | 68413 | U 63 (S)  |
| Golan Pipe<br>Systems<br>(Scandinavia)<br>Alu-pres             | 68392     | TH 14     | IBP >B< press<br>Inox                | 68429 | V 42  | IVAR<br>MULTIPRESS                                       | 68352     | H 198     | KAN    | 68406 | U 16      |
|                                                                | 68394     | TH 16     |                                      | 68430 | V 54  |                                                          | 68353     | H 204     |        | 68408 | U 20      |
|                                                                | 68396     | TH 18     |                                      | 68421 | V 12  |                                                          | 68354     | H 210     |        | 68409 | U 25      |
|                                                                | 68397     | TH 20     |                                      | 68422 | V 14  |                                                          | 68355     | H 216     |        | 68410 | U 32      |
|                                                                | 68398     | TH 25     |                                      | 68423 | V 15  |                                                          | 68356     | H 222     |        | 68411 | U 40      |
|                                                                | 68401     | TH 32     |                                      | 68424 | V 16  |                                                          | 68357     | H 228     |        | 68412 | U 50      |
|                                                                | 68402     | TH 40     |                                      | 68425 | V 18  |                                                          | 68358     | H 234     |        | 68413 | U 63 (S)  |
| GLOBAL<br>TRADE<br>aqualpress<br>system                        | 68406     | U 16      | IBP >B< press<br>Solar               | 68426 | V 22  | IVAR<br>MULTIPRESS                                       | 68359     | H 240     | KAN    | 68406 | U 16      |
|                                                                | 68408     | U 20      |                                      | 68427 | V 28  |                                                          | 68360     | H 246     |        | 68408 | U 20      |
|                                                                | 68409     | U 25      |                                      | 68428 | V 35  |                                                          | 68361     | H 252     |        | 68409 | U 25      |
|                                                                | 68410     | U 32      |                                      | 68429 | V 42  |                                                          | 68362     | H 258     |        | 68410 | U 32      |
|                                                                | 68411     | U 40      |                                      | 68430 | V 54  |                                                          | 68363     | M 15      |        | 68411 | U 40      |
|                                                                | 68412     | U 50      |                                      | 68421 | V 12  |                                                          | 68364     | M 18      |        | 68412 | U 50      |
|                                                                | 68413     | U 63 (S)  |                                      | 68422 | V 14  |                                                          | 68365     | M 22      |        | 68413 | U 63 (S)  |
| Golan Pipe<br>Systems<br>(Scandinavia)<br>Alu-pres             | 68392     | TH 14     | IDROSANITARIA<br>Bonomi<br>Idropress | 68423 | V 15  | IVAR<br>MULTIPRESS                                       | 68366     | M 28      | KAN    | 68406 | U 16      |
|                                                                | 68394     | TH 16     |                                      | 68424 | V 16  |                                                          | 68367     | M 35      |        | 68408 | U 20      |
|                                                                | 68396     | TH 18     |                                      | 68425 | V 18  |                                                          | 68368     | M 42 (4G) |        | 68409 | U 25      |
|                                                                | 68397     | TH 20     |                                      | 68426 | V 22  |                                                          | 68369     | M 54 (4G) |        | 68410 | U 32      |
|                                                                | 68398     | TH 25     |                                      | 68427 | V 28  |                                                          | 68370     | M 54 (4G) |        | 68411 | U 40      |
|                                                                | 68401     | TH 32     |                                      | 68428 | V 35  |                                                          | 68392     | TH 14     |        | 68412 | U 50      |
|                                                                | 68402     | TH 40     |                                      | 68429 | V 42  |                                                          | 68394     | TH 16     |        | 68413 | U 63 (S)  |
| GLOBAL<br>TRADE<br>aqualpress<br>system                        | 68406     | U 16      | IDROSISTEMI<br>Ta-Press              | 68430 | V 54  | IVAR<br>MULTIPRESS                                       | 68395     | TH 16     | KAN    | 68406 | U 16      |
|                                                                | 68408     | U 20      |                                      | 68421 | V 12  |                                                          | 68396     | TH 18     |        | 68408 | U 20      |
|                                                                | 68409     | U 25      |                                      | 68422 | V 14  |                                                          | 68397     | TH 20     |        | 68409 | U 25      |
|                                                                | 68410     | U 32      |                                      | 68423 | V 15  |                                                          | 68398     | TH 25     |        | 68410 | U 32      |
|                                                                | 68411     | U 40      |                                      | 68424 | V 16  |                                                          | 68399     | TH 30     |        | 68411 | U 40      |
|                                                                | 68412     | U 50      |                                      | 68425 | V 18  |                                                          | 68400     | TH 35     |        | 68412 | U 50      |
|                                                                | 68413     | U 63 (S)  |                                      | 68426 | V 22  |                                                          | 68401     | TH 40     |        | 68413 | U 63 (S)  |
| Golan Pipe<br>Systems<br>(Scandinavia)<br>Alu-pres             | 68392     | TH 14     | IBP >B< press<br>Inox                | 68427 | V 28  | IVAR<br>MULTIPRESS                                       | 68402     | TH 40     | KAN    | 68406 | U 16      |
|                                                                | 68394     | TH 16     |                                      | 68428 | V 35  |                                                          | 68403     | TH 45     |        | 68408 | U 20      |
|                                                                | 68396     | TH 18     |                                      | 68429 | V 42  |                                                          | 68404     | TH 50     |        | 68409 | U 25      |
|                                                                | 68397     | TH 20     |                                      | 68430 | V 54  |                                                          | 68405     | TH 55     |        | 68410 | U 32      |
|                                                                | 68398     | TH 25     |                                      | 68421 | V 12  |                                                          | 68406     | TH 60     |        | 68411 | U 40      |
|                                                                | 68401     | TH 32     |                                      | 68422 | V 14  |                                                          | 68407     | TH 65     |        | 68412 | U 50      |
|                                                                | 68402     | TH 40     |                                      | 68423 | V 15  |                                                          | 68408     | TH 70     |        | 68413 | U 63 (S)  |
| GLOBAL<br>TRADE<br>aqualpress<br>system                        | 68406     | U 16      | IBP >B< press<br>Solar               | 68424 | V 16  | IVAR<br>MULTIPRESS                                       | 68409     | U 25      | KAN    | 68406 | U 16      |
|                                                                | 68408     | U 20      |                                      | 68425 | V 18  |                                                          | 68410     | U 32      |        | 68408 | U 20      |



| SYSTEM                            | COD.             | TYPE       |
|-----------------------------------|------------------|------------|
| Largo-Presssystem                 | 68391            | TH 12      |
|                                   | 68392            | TH 14      |
|                                   | 68394            | TH 16      |
|                                   | 68396            | TH 18      |
|                                   | 68397            | TH 20      |
|                                   | 68400            | TH 26      |
|                                   | 68401            | TH 32      |
|                                   | 68402            | TH 40      |
| LECHAR ALCOBRAPEX                 | 68403            | TH 50 (S)  |
|                                   | 68404            | TH 63 (S)  |
|                                   | 68394            | TH 16      |
|                                   | 68397            | TH 20      |
| LECHAR COBRAPEX                   | 68400            | TH 26      |
|                                   | 68401            | TH 32      |
|                                   | 68402            | TH 40      |
|                                   | 68406            | U 16       |
| LEGEND-PRESS press fitting system | 68408            | U 20       |
|                                   | 68409            | U 25       |
|                                   | 68410            | U 32       |
|                                   | 68442            | VUS 1.1/4" |
|                                   | 68444            | VUS 1.1/2" |
|                                   | 68441            | VUS 1"     |
| LK Systems >B<Press               | 68440            | VUS 3/4"   |
|                                   | 68439            | VUS 1/2"   |
|                                   | 68443            | VUS 2"     |
|                                   | 68421            | V 12       |
|                                   | 68423            | V 15       |
|                                   | 68425            | V 18       |
|                                   | 68426            | V 22       |
|                                   | 68427            | V 28       |
| LK Systems Universal              | 68428            | V 35       |
|                                   | 68429            | V 42       |
|                                   | 68430            | V 54       |
|                                   | 68394            | TH 16      |
|                                   | 68397            | TH 20      |
|                                   | 68398            | TH 25      |
|                                   | 68401            | TH 32      |
|                                   | 68402            | TH 40      |
|                                   | 68403            | TH 50 (S)  |
|                                   | 68404            | TH 63 (S)  |
| Mair Heiztechnik Gomafix M        | 68327            | H 11.5     |
|                                   | 68329            | H 14       |
|                                   | 68330            | H 16       |
|                                   | 68333            | H 20       |
|                                   | 68361            | M 12       |
| Mair Heiztechnik Gomafix CU/E     | 68363            | M 15       |
|                                   | 68365            | M 18       |
|                                   | 68366            | M 22       |
|                                   | 68327            | H 11.5     |
|                                   | 68329            | H 14       |
| Mair Heiztechnik M-Press          | 68330            | H 16       |
|                                   | 68333            | H 20       |
|                                   | 68335            | H 26       |
|                                   | 68336            | H 32       |
|                                   | 68411            | U 40       |
|                                   | 68361            | Geberit    |
| Mark KG Polymark                  | 68394            | TH 16      |
|                                   | 68397            | TH 20      |
|                                   | 68400            | TH 26      |
|                                   | 68401            | TH 32      |
|                                   | 68392            | TH 14      |
|                                   | 68394            | TH 16      |
|                                   | 68396            | TH 18      |
|                                   | 68397            | TH 20      |
|                                   | 68398            | TH 25      |
|                                   | 68400            | TH 26      |
|                                   | 68401            | TH 32      |
| Ma.s.ter System PRESSMASTER       | 68402            | TH 40      |
|                                   | 68403            | TH 50 (S)  |
|                                   | 68404            | TH 63 (S)  |
|                                   | 68330            | H 16       |
|                                   | 68332            | H 18       |
|                                   | 68333            | H 20       |
|                                   | 68335            | H 26       |
|                                   | 68336            | H 32       |
|                                   | 68337            | H 40 (4G)  |
|                                   | 68405            | U 14       |
|                                   | 68406            | U 16       |
|                                   | 68407            | U 18       |
|                                   | 68408            | U 20       |
|                                   | 68409            | U 25       |
|                                   | 68410            | U 32       |
|                                   | 68411            | U 40       |
|                                   | 68412            | U 50       |
| 68413                             | U 63 (S)         |            |
| MAXITUB MAXIPRESS                 | 68374            | RF 12      |
|                                   | 68375            | RF 16      |
|                                   | 68376            | RF 20      |
|                                   | 68377            | RF 25      |
| MEGARO HAKAPRESS                  | 68327            | H 11.5     |
|                                   | 68329            | H 14       |
|                                   | 68330            | H 16       |
|                                   | 68331            | H 17       |
|                                   | 68332            | H 18       |
|                                   | 68333            | H 20       |
|                                   | 68335            | H 26       |
|                                   | 68336            | H 32       |
|                                   | 68337            | H 40 (4G)  |
|                                   | 68411            | U 40       |
|                                   | 68318            | F 50       |
|                                   | 68319            | F 63 (S)   |
|                                   | MEGARO MEGAPRESS | 68301      |
| 68303                             |                  | B 20       |
| 68304                             |                  | B 26       |
| 68305                             |                  | B 32       |
| 68317                             |                  | F 40       |
| 68318                             |                  | F 50       |
| 68319                             |                  | F 63 (S)   |

| SYSTEM                                     | COD.      | TYPE       |
|--------------------------------------------|-----------|------------|
| METALGRUP MultiGrup                        | 68406     | U 16       |
|                                            | 68407     | U 18       |
|                                            | 68408     | U 20       |
|                                            | 68409     | U 25       |
|                                            | 68410     | U 32       |
| MULTITHERM-PRESSSYSTEM                     | 68394     | TH 16      |
|                                            | 68396     | TH 18      |
|                                            | 68397     | TH 20      |
|                                            | 68400     | TH 26      |
|                                            | 68401     | TH 32      |
|                                            | 68402     | TH 40      |
|                                            | 68403     | TH 50 (S)  |
|                                            | 68404     | TH 63 (S)  |
| Multicapas Industrial multitubo systems MC | 68406     | U 16       |
|                                            | 68407     | U 18       |
|                                            | 68411     | U 40       |
|                                            | 68412     | U 50       |
|                                            | 68413     | U 63 (S)   |
| Multicapas Industrial multitubo systems MM | 68406     | U 16       |
|                                            | 68394     | TH 16      |
|                                            | 68397     | TH 20      |
|                                            | 68398     | TH 25      |
|                                            | 68400     | TH 26      |
|                                            | 68401     | TH 32      |
|                                            | 68330     | H 16       |
|                                            | 68333     | H 20       |
|                                            | 68334     | H 25       |
|                                            | 68335     | H 26       |
|                                            | 68336     | H 32       |
| NEUTHERM MEKUPRESS-HT                      | 68330     | H 16       |
|                                            | 68333     | H 20       |
|                                            | 68335     | H 26       |
|                                            | 68336     | H 32       |
|                                            | 68337     | H 40 (4G)  |
|                                            | 68411     | U 40       |
| NIBCO (POL) NEXT-Heat                      | 68330     | H 16       |
|                                            | 68333     | H 20       |
|                                            | 68334     | H 25       |
|                                            | 68336     | H 32       |
|                                            | 68394     | TH 16      |
|                                            | 68397     | TH 20      |
|                                            | 68398     | TH 25      |
|                                            | 68401     | TH 32      |
|                                            | 68406     | U 16       |
|                                            | 68408     | U 20       |
|                                            | 68409     | U 25       |
| 68410                                      | U 32      |            |
| NIBCO (USA) Press System                   | 68442     | VUS 1.1/4" |
|                                            | 68444     | VUS 1.1/2" |
|                                            | 68441     | VUS 1"     |
|                                            | 68440     | VUS 3/4"   |
|                                            | 68439     | VUS 1/2"   |
|                                            | 68443     | VUS 2"     |
| Nicoll Fluxo                               | 68392     | TH 14      |
|                                            | 68394     | TH 16      |
|                                            | 68396     | TH 18      |
|                                            | 68397     | TH 20      |
|                                            | 68400     | TH 26      |
|                                            | 68401     | TH 32      |
|                                            | 68402     | TH 40      |
|                                            | 68403     | TH 50 (S)  |
|                                            | 68404     | TH 63 (S)  |
|                                            | 68392     | TH 14      |
|                                            | 68394     | TH 16      |
| 68396                                      | TH 18     |            |
| 68397                                      | TH 20     |            |
| 68400                                      | TH 26     |            |
| 68401                                      | TH 32     |            |
| 68402                                      | TH 40     |            |
| 68403                                      | TH 50 (S) |            |
| 68404                                      | TH 63 (S) |            |
| N.T.M. WINNY-AL                            | 68329     | H 14       |
|                                            | 68330     | H 16       |
|                                            | 68332     | H 18       |
|                                            | 68333     | H 20       |
|                                            | 68335     | H 26       |
|                                            | 68336     | H 32       |
|                                            | 68337     | H 40 (4G)  |
|                                            | 68405     | U 14       |
|                                            | 68406     | U 16       |
|                                            | 68407     | U 18       |
|                                            | 68408     | U 20       |
|                                            | 68409     | U 25       |
|                                            | 68410     | U 32       |
|                                            | 68411     | U 40       |
|                                            | 68412     | U 50       |
|                                            | 68413     | U 63 (S)   |
| NUPIEGO Multinupi                          | 68405     | U 14       |
|                                            | 68406     | U 16       |
|                                            | 68407     | U 18       |
|                                            | 68408     | U 20       |
|                                            | 68306     | C 26       |
|                                            | 68410     | U 32       |
|                                            | 68411     | U 40       |
|                                            | 68412     | U 50       |
|                                            | 68413     | U 63 (S)   |
|                                            | 68421     | V 12       |
|                                            | 68423     | V 15       |
|                                            | 68425     | V 18       |
| 68426                                      | V 22      |            |
| 68427                                      | V 28      |            |
| 68428                                      | V 35      |            |
| 68429                                      | V 42      |            |
| 68430                                      | V 54      |            |
| Nussbaum Cupress                           | 68435     | VP 16      |
|                                            | 68436     | VP 20      |
|                                            | 68437     | VP 25      |
|                                            | 68438     | VP 32      |

| SYSTEM                                      | COD.                   | TYPE      |
|---------------------------------------------|------------------------|-----------|
| Nussbaum Optipress                          | 68423                  | V 15      |
|                                             | 68425                  | V 18      |
|                                             | 68426                  | V 22      |
|                                             | 68427                  | V 28      |
|                                             | 68428                  | V 35      |
|                                             | 68429                  | V 42      |
|                                             | 68430                  | V 54      |
|                                             | Nussbaum Optipress Gas | 68423     |
| 68425                                       |                        | V 18      |
| 68426                                       |                        | V 22      |
| 68427                                       |                        | V 28      |
| 68428                                       |                        | V 35      |
| 68429                                       |                        | V 42      |
| 68430                                       |                        | V 54      |
| Nussbaum Optipress-Therm                    | 68423                  | V 15      |
|                                             | 68425                  | V 18      |
|                                             | 68426                  | V 22      |
|                                             | 68427                  | V 28      |
|                                             | 68428                  | V 35      |
|                                             | 68429                  | V 42      |
| O.M.T. Heizungssystem                       | 68430                  | V 54      |
|                                             | 68330                  | H 16      |
|                                             | 68333                  | H 20      |
|                                             | 68335                  | H 26      |
|                                             | 68336                  | H 32      |
| Oteracordi Oter Tecno                       | 68337                  | H 40 (4G) |
|                                             | 68361                  | M 12      |
|                                             | 68363                  | M 15      |
|                                             | 68365                  | M 18      |
|                                             | 68366                  | M 22      |
|                                             | 68367                  | M 28      |
|                                             | 68368                  | M 35      |
|                                             | 68361                  | M 12      |
|                                             | 68363                  | M 15      |
|                                             | 68365                  | M 18      |
| Oteracordi Oter Tecno carbonio              | 68366                  | M 22      |
|                                             | 68367                  | M 28      |
|                                             | 68368                  | M 35      |
|                                             | 68361                  | M 12      |
|                                             | 68363                  | M 15      |
| Oteracordi Oter Tecno Gas                   | 68365                  | M 18      |
|                                             | 68366                  | M 22      |
|                                             | 68367                  | M 28      |
|                                             | 68368                  | M 35      |
| Oventrop Cofit P                            | 68341                  | H 16 A    |
|                                             | 68344                  | H 20 A    |
|                                             | 68346                  | H 26 A    |
|                                             | 68347                  | H 32 A    |
|                                             | 68412                  | U 50      |
| PB TUB SERTIPRESS                           | 68413                  | U 63 (S)  |
|                                             | 68229                  | RFz 12    |
| Pegler Yorkshire XPress Carbon              | 68363                  | M 15      |
|                                             | 68365                  | M 18      |
|                                             | 68366                  | M 22      |
|                                             | 68367                  | M 28      |
|                                             | 68368                  | M 35      |
|                                             | 68363                  | M 15      |
| Pegler Yorkshire XPress Copper              | 68365                  | M 18      |
|                                             | 68366                  | M 22      |
|                                             | 68367                  | M 28      |
|                                             | 68368                  | M 35      |
|                                             | 68363                  | M 15      |
| Pegler Yorkshire XPress Copper Gas          | 68365                  | M 18      |
|                                             | 68366                  | M 22      |
|                                             | 68367                  | M 28      |
|                                             | 68368                  | M 35      |
|                                             | 68392                  | TH 14     |
| Pegler Yorkshire Henco Multilayer Solutions | 68394                  | TH 16     |
|                                             | 68396                  | TH 18     |
|                                             | 68397                  | TH 20     |
|                                             | 68400                  | TH 26     |
|                                             | 68363                  | M 15      |
| Pegler Yorkshire XPress Solar               | 68365                  | M 18      |
|                                             | 68366                  | M 22      |
|                                             | 68367                  | M 28      |
|                                             | 68368                  | M 35      |
|                                             | 68363                  | M 15      |
| Pegler Yorkshire Xpress Stainless           | 68365                  | M 18      |
|                                             | 68366                  | M 22      |
|                                             | 68367                  | M 28      |
|                                             | 68368                  | M 35      |
|                                             | 68406                  | U 16      |
| PERFILTUBO PERFILALUPEX                     | 68407                  | U 18      |
|                                             | 68408                  | U 20      |
|                                             | 68409                  | U 25      |
|                                             | 68410                  | U 32      |
|                                             | 68411                  | U 40      |
|                                             | 68412                  | U 50      |
|                                             | 68413                  | U 63 (S)  |
|                                             | 68363                  | M 15      |
|                                             | 68365                  | M 18      |
|                                             | 68366                  | M 22      |
|                                             | 68367                  | M 28      |
| PERFILTUBO PERFILPRESS                      | 68368                  | M 35      |
|                                             | 68369                  | M 42 (4G) |
|                                             | 68370                  | M 54 (4G) |
|                                             | 68394                  | TH 16     |
| Pietro Ravani S.p.A                         | 68396                  | TH 18     |
|                                             | 68397                  | TH 20     |
|                                             | 68400                  | TH 26     |
|                                             | 68330                  | H 16      |
|                                             | 68332                  | H 18      |
|                                             | 68333                  | H 20      |
|                                             | 68335                  | H 26      |

| SYSTEM                              | COD.  | TYPE      |
|-------------------------------------|-------|-----------|
| PIPELIFE RADOPRESS                  | 68394 | TH 16     |
|                                     | 68396 | TH 18     |
|                                     | 68397 | TH 20     |
|                                     | 68400 | TH 26     |
|                                     | 68401 | TH 32     |
|                                     | 68402 | TH 40     |
| PLASTICA ALFA Multypex              | 68403 | TH 50 (S) |
|                                     | 68404 | TH 63 (S) |
|                                     | 68330 | H 16      |
|                                     | 68333 | H 20      |
|                                     | 68335 | H 26      |
| PLASTICA ALFA Multypex Air          | 68336 | H 32      |
|                                     | 68406 | U 16      |
|                                     | 68408 | U 20      |
|                                     | 68306 | C 26      |
|                                     | 68410 | U 32      |
|                                     | 68330 | H 16      |
|                                     | 68333 | H 20      |
| PLASTICA ALFA Multypex plus         | 68335 | H 26      |
|                                     | 68336 | H 32      |
|                                     | 68406 | U 16      |
|                                     | 68408 | U 20      |
|                                     | 68306 | C 26      |
|                                     | 68410 | U 32      |
| PLASTICA ALFA Multypex Thermo       | 68330 | H 16      |
|                                     | 68333 | H 20      |
|                                     | 68335 | H 26      |
|                                     | 68336 | H 32      |
|                                     | 68406 | U 16      |
|                                     | 68408 | U 20      |
|                                     | 68306 | C 26      |
| PLASTICA ALFA Multypex Thermo Plus  | 68410 | U 32      |
|                                     | 68330 | H 16      |
|                                     | 68333 | H 20      |
|                                     | 68335 | H 26      |
|                                     | 68336 | H 32      |
|                                     | 68406 | U 16      |
|                                     | 68408 | U 20      |
| PLOMYPLAS plomyPRESS plomyAIR       | 68306 | C 26      |
|                                     | 68410 | U 32      |
|                                     | 68394 | TH 16     |
|                                     | 68397 | TH 20     |
|                                     | 68398 | TH 25     |
|                                     | 68401 | TH 32     |
| PLOMYPLAS plomyPRESS plomyGAS       | 68406 | U 16      |
|                                     | 68408 | U 20      |
|                                     | 68409 | U 25      |
|                                     | 68410 | U 32      |
|                                     | 68394 | TH 16     |
| PLOMYPLAS plomyPRESS plomyLAYER     | 68397 | TH 20     |
|                                     | 68398 | TH 25     |
|                                     | 68401 | TH 32     |
|                                     | 68406 | U 16      |
|                                     | 68408 | U 20      |
| PLOMYPLAS plomyPRESS plomyLAYER PEX | 68409 | U 25      |
|                                     | 68410 | U 32      |
|                                     | 68394 | TH 16     |
|                                     | 68397 | TH 20     |
|                                     | 68398 | TH 25     |
| PLOMYPLAS plomyPRESS plomyPERT EVAL | 68401 | TH 32     |
|                                     | 68406 | U 16      |
|                                     | 68408 | U 20      |
|                                     | 68409 | U 25      |
|                                     | 68410 | U 32      |
| PLOMYPLAS plomyPRESS plomyPEX       | 68394 | TH 16     |
|                                     | 68397 | TH 20     |
|                                     | 68398 | TH 25     |
|                                     | 68401 | TH 32     |
|                                     | 68406 | U 16      |
| PLOMYPLAS plomyPRESS plomyPEX EVAL  | 68408 | U 20      |
|                                     | 68409 | U 25      |
|                                     | 68410 | U 32      |
|                                     | 68394 | TH 16     |
|                                     | 68397 | TH 20     |

| SYSTEM                                                       | COD.     | TYPE      | SYSTEM                            | COD.      | TYPE  | SYSTEM                                           | COD.  | TYPE      | SYSTEM                                                        | COD.  | TYPE  |
|--------------------------------------------------------------|----------|-----------|-----------------------------------|-----------|-------|--------------------------------------------------|-------|-----------|---------------------------------------------------------------|-------|-------|
| POLYPIPE<br>POLYPRESS                                        | 68312    | F 16      | RIFENG U<br>PRESS FITTING<br>(F5) | 68405     | U 14  | SANHA-NiroSan-<br>Presssystem Gas<br>Serie 17000 | 68381 | SA 15     | SANHA-<br>Pressfittings<br>Air<br>Serie 14000/<br>Serie 15000 | 68379 | SA 12 |
|                                                              | 68314    | F 20      |                                   | 68406     | U 16  |                                                  | 68383 | SA 18     |                                                               | 68381 | SA 15 |
|                                                              | 68315    | F 26      |                                   | 68407     | U 18  |                                                  | 68384 | SA 22     |                                                               | 68383 | SA 18 |
|                                                              | 68316    | F 32      |                                   | 68408     | U 20  |                                                  | 68385 | SA 28     |                                                               | 68384 | SA 22 |
|                                                              | 68317    | F 40      |                                   | 68409     | U 25  |                                                  | 68386 | SA 35     |                                                               | 68385 | SA 28 |
|                                                              | 68318    | F 50      |                                   | 68410     | U 32  |                                                  | 68363 | M 15      |                                                               | 68386 | SA 35 |
| 68319                                                        | F 63 (S) | 68411     | U 40                              | 68365     | M 18  | 68361                                            | M 12  |           |                                                               |       |       |
| POLYPIPE<br>POLYSURE                                         | 68389    | TH 10     | 68412                             | U 50      | 68366 | M 22                                             | 68366 | M 15      |                                                               |       |       |
|                                                              | 68393    | TH 15     | 68413                             | U 63 (S)  | 68367 | M 28                                             | 68365 | M 18      |                                                               |       |       |
| POLYSAN<br>Handelges m.b.H<br>& Co KG<br>(Krems-Österreich)  | 68392    | TH 14     | 68394                             | TH 16     | 68368 | M 35                                             | 68366 | M 22      |                                                               |       |       |
|                                                              | 68394    | TH 16     | 68397                             | TH 20     | 68423 | V 15                                             | 68367 | M 28      |                                                               |       |       |
|                                                              | 68395    | TH 17     | 68398                             | TH 25     | 68425 | V 18                                             | 68368 | M 35      |                                                               |       |       |
|                                                              | 68396    | TH 18     | 68400                             | TH 26     | 68426 | V 22                                             | 68421 | V 12      |                                                               |       |       |
|                                                              | 68397    | TH 20     | 68401                             | TH 32     | 68427 | V 28                                             | 68423 | V 15      |                                                               |       |       |
|                                                              | 68400    | TH 26     | 68402                             | TH 32     | 68428 | V 35                                             | 68425 | V 18      |                                                               |       |       |
| POLYSAN-<br>Press-System                                     | 68401    | TH 32     | 68403                             | TH 40     | 68429 | V 42                                             | 68426 | V 22      |                                                               |       |       |
|                                                              | 68402    | TH 40     | 68404                             | TH 50 (S) | 68430 | V 54                                             | 68427 | V 28      |                                                               |       |       |
|                                                              | 68403    | TH 50 (S) |                                   |           | 68381 | SA 15                                            | 68428 | V 35      |                                                               |       |       |
|                                                              | 68404    | TH 63 (S) |                                   |           | 68383 | SA 18                                            | 68429 | V 42      |                                                               |       |       |
| POLYSAN<br>Handelsges m.b.H &<br>Co KG<br>(Krems/Österreich) | 68363    | M 15      |                                   |           | 68384 | SA 22                                            | 68430 | V 54      |                                                               |       |       |
|                                                              | 68365    | M 18      |                                   |           | 68385 | SA 28                                            | 68381 | SA 15     |                                                               |       |       |
|                                                              | 68366    | M 22      |                                   |           | 68386 | SA 35                                            | 68383 | SA 18     |                                                               |       |       |
|                                                              | 68367    | M 28      |                                   |           | 68363 | M 15                                             | 68384 | SA 22     |                                                               |       |       |
|                                                              | 68368    | M 35      |                                   |           | 68365 | M 18                                             | 68385 | SA 28     |                                                               |       |       |
|                                                              | 68369    | M 42 (4G) |                                   |           | 68366 | M 22                                             | 68386 | SA 35     |                                                               |       |       |
| POLYSAN-EUROTUBI<br>C-Stahl-press-<br>System                 | 68370    | M 54 (4G) |                                   |           | 68367 | M 28                                             | 68363 | M 15      |                                                               |       |       |
| POLYSAN<br>Handelsges m.b.H &<br>Co KG<br>(Krems/Österreich) | 68363    | M 15      |                                   |           | 68368 | M 35                                             | 68365 | M 18      |                                                               |       |       |
|                                                              | 68365    | M 18      |                                   |           | 68369 | M 42 (4G)                                        | 68366 | M 22      |                                                               |       |       |
|                                                              | 68366    | M 22      |                                   |           | 68370 | M 54 (4G)                                        | 68367 | M 28      |                                                               |       |       |
|                                                              | 68367    | M 28      |                                   |           |       |                                                  | 68368 | M 35      |                                                               |       |       |
|                                                              | 68368    | M 35      |                                   |           |       |                                                  | 68423 | V 15      |                                                               |       |       |
|                                                              | 68369    | M 42 (4G) |                                   |           |       |                                                  | 68425 | V 18      |                                                               |       |       |
| POLYSAN-EUROTUBI<br>Edelstahl-Press-<br>System               | 68370    | M 54 (4G) |                                   |           |       |                                                  | 68426 | V 22      |                                                               |       |       |
| POLYSAN<br>Handelsges m.b.H &<br>Co KG<br>(Krems/Österreich) | 68363    | M 15      |                                   |           |       |                                                  | 68427 | V 28      |                                                               |       |       |
|                                                              | 68365    | M 18      |                                   |           |       |                                                  | 68428 | V 35      |                                                               |       |       |
|                                                              | 68366    | M 22      |                                   |           |       |                                                  | 68429 | V 42      |                                                               |       |       |
|                                                              | 68367    | M 28      |                                   |           |       |                                                  | 68430 | V 54      |                                                               |       |       |
|                                                              | 68368    | M 35      |                                   |           |       |                                                  | 68379 | SA 12     |                                                               |       |       |
|                                                              | 68369    | M 42 (4G) |                                   |           |       |                                                  | 68380 | SA 14     |                                                               |       |       |
| POLYSAN-EUROTUBI<br>Edelstahl-Press-<br>System Gas           | 68370    | M 54 (4G) |                                   |           |       |                                                  | 68381 | SA 15     |                                                               |       |       |
|                                                              | 68406    | U 16      |                                   |           |       |                                                  | 68382 | SA 16     |                                                               |       |       |
|                                                              | 68407    | U 18      |                                   |           |       |                                                  | 68383 | SA 18     |                                                               |       |       |
|                                                              | 68408    | U 20      |                                   |           |       |                                                  | 68384 | SA 22     |                                                               |       |       |
|                                                              | 68409    | U 25      |                                   |           |       |                                                  | 68385 | SA 28     |                                                               |       |       |
|                                                              | 68410    | U 32      |                                   |           |       |                                                  | 68386 | SA 35     |                                                               |       |       |
|                                                              | 68411    | U 40      |                                   |           |       |                                                  | 68361 | M 12      |                                                               |       |       |
|                                                              | 68412    | U 50      |                                   |           |       |                                                  | 68363 | M 15      |                                                               |       |       |
|                                                              | 68413    | U 63 (S)  |                                   |           |       |                                                  | 68365 | M 18      |                                                               |       |       |
| Prandelli<br>Multyrama Pf                                    | 68329    | H 14      |                                   |           |       |                                                  | 68366 | M 22      |                                                               |       |       |
|                                                              | 68330    | H 16      |                                   |           |       |                                                  | 68367 | M 28      |                                                               |       |       |
|                                                              | 68332    | H 18      |                                   |           |       |                                                  | 68368 | M 35      |                                                               |       |       |
|                                                              | 68333    | H 20      |                                   |           |       |                                                  | 68423 | V 15      |                                                               |       |       |
|                                                              | 68335    | H 26      |                                   |           |       |                                                  | 68425 | V 18      |                                                               |       |       |
|                                                              | 68336    | H 32      |                                   |           |       |                                                  | 68426 | V 22      |                                                               |       |       |
|                                                              | 68411    | U 40      |                                   |           |       |                                                  | 68427 | V 28      |                                                               |       |       |
|                                                              | 68412    | U 50      |                                   |           |       |                                                  | 68428 | V 35      |                                                               |       |       |
| Prandelli<br>Multyrama Pfm                                   | 68330    | H 16      |                                   |           |       |                                                  | 68429 | V 42      |                                                               |       |       |
|                                                              | 68332    | H 18      |                                   |           |       |                                                  | 68430 | V 54      |                                                               |       |       |
|                                                              | 68333    | H 20      |                                   |           |       |                                                  | 68379 | SA 12     |                                                               |       |       |
|                                                              | 68335    | H 26      |                                   |           |       |                                                  | 68380 | SA 14     |                                                               |       |       |
|                                                              | 68336    | H 32      |                                   |           |       |                                                  | 68381 | SA 15     |                                                               |       |       |
|                                                              | 68394    | TH 16     |                                   |           |       |                                                  | 68382 | SA 16     |                                                               |       |       |
|                                                              | 68397    | TH 20     |                                   |           |       |                                                  | 68383 | SA 18     |                                                               |       |       |
|                                                              | 68400    | TH 26     |                                   |           |       |                                                  | 68384 | SA 22     |                                                               |       |       |
|                                                              | 68401    | TH 32     |                                   |           |       |                                                  | 68385 | SA 28     |                                                               |       |       |
|                                                              | 68402    | TH 40     |                                   |           |       |                                                  | 68386 | SA 35     |                                                               |       |       |
| PRASKI<br>BAVARIA-press                                      | 68389    | TH 10     |                                   |           |       |                                                  | 68361 | M 12      |                                                               |       |       |
|                                                              | 68394    | TH 16     |                                   |           |       |                                                  | 68363 | M 15      |                                                               |       |       |
|                                                              | 68395    | TH 17     |                                   |           |       |                                                  | 68365 | M 18      |                                                               |       |       |
|                                                              | 68397    | TH 20     |                                   |           |       |                                                  | 68366 | M 22      |                                                               |       |       |
|                                                              | 68400    | TH 26     |                                   |           |       |                                                  | 68367 | M 28      |                                                               |       |       |
|                                                              | 68401    | TH 32     |                                   |           |       |                                                  | 68368 | M 35      |                                                               |       |       |
|                                                              | 68402    | TH 40     |                                   |           |       |                                                  | 68421 | V 12      |                                                               |       |       |
| PURMO<br>HKS Sitec Press                                     | 68392    | TH 14     |                                   |           |       |                                                  | 68423 | V 15      |                                                               |       |       |
|                                                              | 68394    | TH 16     |                                   |           |       |                                                  | 68425 | V 18      |                                                               |       |       |
|                                                              | 68395    | TH 17     |                                   |           |       |                                                  | 68426 | V 22      |                                                               |       |       |
|                                                              | 68396    | TH 18     |                                   |           |       |                                                  | 68427 | V 28      |                                                               |       |       |
|                                                              | 68397    | TH 20     |                                   |           |       |                                                  | 68428 | V 35      |                                                               |       |       |
|                                                              | 68400    | TH 26     |                                   |           |       |                                                  | 68429 | V 42      |                                                               |       |       |
|                                                              | 68401    | TH 32     |                                   |           |       |                                                  | 68430 | V 54      |                                                               |       |       |
|                                                              | 68402    | TH 40     |                                   |           |       |                                                  | 68394 | TH 16     |                                                               |       |       |
| Raccorderie<br>Metalliche<br>inoxPRES                        | 68363    | M 15      |                                   |           |       |                                                  | 68397 | TH 20     |                                                               |       |       |
|                                                              | 68365    | M 18      |                                   |           |       |                                                  | 68399 | TH 26     |                                                               |       |       |
|                                                              | 68366    | M 22      |                                   |           |       |                                                  | 68400 | TH 32     |                                                               |       |       |
|                                                              | 68367    | M 28      |                                   |           |       |                                                  | 68401 | TH 40     |                                                               |       |       |
|                                                              | 68368    | M 35      |                                   |           |       |                                                  | 68392 | TH 14     |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68394 | TH 16     |                                                               |       |       |
| Raccorderie<br>Metalliche<br>steelPRES                       | 68363    | M 15      |                                   |           |       |                                                  | 68396 | TH 18     |                                                               |       |       |
|                                                              | 68365    | M 18      |                                   |           |       |                                                  | 68397 | TH 20     |                                                               |       |       |
|                                                              | 68366    | M 22      |                                   |           |       |                                                  | 68400 | TH 26     |                                                               |       |       |
|                                                              | 68367    | M 28      |                                   |           |       |                                                  | 68401 | TH 32     |                                                               |       |       |
|                                                              | 68368    | M 35      |                                   |           |       |                                                  | 68402 | TH 40     |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68403 | TH 50 (S) |                                                               |       |       |
| RBM Titafix                                                  | 68392    | TH 14     |                                   |           |       |                                                  | 68404 | TH 63 (S) |                                                               |       |       |
|                                                              | 68394    | TH 16     |                                   |           |       |                                                  | 68405 | TH 14     |                                                               |       |       |
|                                                              | 68396    | TH 18     |                                   |           |       |                                                  | 68406 | U 16      |                                                               |       |       |
|                                                              | 68397    | TH 20     |                                   |           |       |                                                  | 68408 | U 20      |                                                               |       |       |
|                                                              | 68400    | TH 26     |                                   |           |       |                                                  | 68410 | U 32      |                                                               |       |       |
|                                                              | 68401    | TH 32     |                                   |           |       |                                                  | 68411 | U 40      |                                                               |       |       |
|                                                              | 68402    | TH 40     |                                   |           |       |                                                  | 68379 | SA 12     |                                                               |       |       |
|                                                              | 68403    | TH 50 (S) |                                   |           |       |                                                  | 68381 | SA 15     |                                                               |       |       |
|                                                              | 68404    | TH 63 (S) |                                   |           |       |                                                  | 68383 | SA 18     |                                                               |       |       |
| Remo                                                         | 68329    | H 14      |                                   |           |       |                                                  | 68384 | SA 22     |                                                               |       |       |
|                                                              | 68330    | H 16      |                                   |           |       |                                                  | 68385 | SA 28     |                                                               |       |       |
|                                                              | 68332    | H 18      |                                   |           |       |                                                  | 68361 | M 12      |                                                               |       |       |
|                                                              | 68333    | H 20      |                                   |           |       |                                                  | 68363 | M 15      |                                                               |       |       |
|                                                              | 68335    | H 26      |                                   |           |       |                                                  | 68365 | M 18      |                                                               |       |       |
|                                                              | 68336    | H 32      |                                   |           |       |                                                  | 68366 | M 22      |                                                               |       |       |
|                                                              | 68337    | H 40 (4G) |                                   |           |       |                                                  | 68367 | M 28      |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68368 | M 35      |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68369 | M 42 (4G) |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68370 | M 54 (4G) |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68421 | V 12      |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68423 | V 15      |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68425 | V 18      |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68426 | V 22      |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68427 | V 28      |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68428 | V 35      |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68429 | V 42      |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68430 | V 54      |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68379 | SA 12     |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68381 | SA 15     |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68383 | SA 18     |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68384 | SA 22     |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68385 | SA 28     |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68386 | SA 35     |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68361 | M 12      |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68363 | M 15      |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68365 | M 18      |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68366 | M 22      |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68367 | M 28      |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68368 | M 35      |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68421 | V 12      |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68423 | V 15      |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68425 | V 18      |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68426 | V 22      |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68427 | V 28      |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68428 | V 35      |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68429 | V 42      |                                                               |       |       |
|                                                              |          |           |                                   |           |       |                                                  | 68430 | V 54      |                                                               |       |       |

| SYSTEM                                    | COD.  | TYPE      | SYSTEM                     | COD.  | TYPE        | SYSTEM           | COD.  | TYPE      | SYSTEM                      | COD.  | TYPE       |
|-------------------------------------------|-------|-----------|----------------------------|-------|-------------|------------------|-------|-----------|-----------------------------|-------|------------|
| Seppelfrickle Sudopress Cu                | 68423 | V 15      |                            | 68340 | H 14 A      |                  | 68335 | H 26      | Viega                       | 68421 | V 12       |
| Visu-Control Solar                        | 68426 | V 22      |                            | 68341 | H 16 A      |                  | 68336 | H 32      | Profipress Therm            | 68423 | V 15       |
|                                           | 68361 | M 12      | System WELCO-Flex          | 68342 | H 17 A      |                  | 68337 | H 40 (4G) |                             | 68425 | V 18       |
|                                           | 68363 | M 15      |                            | 68344 | H 20 A      |                  | 68405 | U 14      |                             | 68426 | V 22       |
| Seppelfrickle XPress copper               | 68365 | M 18      |                            | 68346 | H 26 A      | UNIDELTA Deltall | 68406 | U 16      |                             | 68442 | VUS 1.1/2" |
|                                           | 68366 | M 22      |                            | 68347 | H 32 A      |                  | 68407 | U 18      |                             | 68444 | VUS 1.1/2" |
|                                           | 68367 | M 28      |                            | 68348 | H 40 A (4G) |                  | 68408 | U 20      | Viega ProPress System (USA) | 68441 | VUS 1"     |
|                                           | 68368 | M 35      | System WELCO-Teck          | 68341 | H 16 A      |                  | 68410 | U 32      |                             | 68440 | VUS 3/4"   |
| Seppelfrickle XPress copper Gas           | 68363 | M 15      |                            | 68344 | H 20 A      |                  | 68411 | U 40      |                             | 68439 | VUS 1/2"   |
|                                           | 68365 | M 18      |                            | 68346 | H 26 A      |                  | 68412 | U 50      |                             | 68443 | VUS 2"     |
|                                           | 68366 | M 22      |                            | 68301 | B 16        |                  | 68413 | U 63 (S)  | Viega Sanfix Fosta          | 68435 | VP 16      |
|                                           | 68367 | M 28      |                            | 68303 | B 20        |                  | 68405 | U 14      |                             | 68436 | VP 20      |
|                                           | 68368 | M 35      | TERMICALINE Termipex       | 68304 | B 26        |                  | 68406 | U 16      |                             | 68437 | VP 25      |
| Seppelfrickle XPress stainless            | 68363 | M 15      |                            | 68305 | B 32        |                  | 68407 | U 18      |                             | 68438 | VP 32      |
|                                           | 68365 | M 18      |                            | 68330 | H 16        |                  | 68408 | U 20      | Viega sanfix Plus           | 68435 | VP 16      |
|                                           | 68366 | M 22      |                            | 68333 | H 20        |                  | 68409 | U 25      |                             | 68436 | VP 20      |
|                                           | 68367 | M 28      |                            | 68394 | TH 16       |                  | 68410 | U 32      |                             | 68437 | VP 25      |
|                                           | 68368 | M 35      |                            | 68397 | TH 20       |                  | 68411 | U 40      |                             | 68438 | VP 32      |
|                                           | 68369 | M 42 (4G) |                            | 68400 | TH 26       |                  | 68412 | U 50      | Viega Sanpress              | 68435 | VP 16      |
|                                           | 68370 | M 54 (4G) |                            | 68401 | TH 32       |                  | 68413 | U 63 (S)  |                             | 68436 | VP 20      |
| Seppelfrickle XPress carbon               | 68361 | M 12      |                            | 68406 | U 16        |                  | 68411 | U 40      |                             | 68421 | V 12       |
|                                           | 68363 | M 15      | TERSIA-Press               | 68405 | U 14        |                  | 68412 | U 50      |                             | 68423 | V 15       |
|                                           | 68365 | M 18      |                            | 68406 | U 16        |                  | 68413 | U 63 (S)  |                             | 68425 | V 18       |
|                                           | 68366 | M 22      |                            | 68407 | U 18        |                  | 68411 | U 40      | Viega Sanpress Inox         | 68426 | V 22       |
|                                           | 68367 | M 28      |                            | 68408 | U 20        |                  | 68412 | U 50      |                             | 68427 | V 28       |
|                                           | 68368 | M 35      |                            | 68409 | U 25        |                  | 68413 | U 63 (S)  |                             | 68428 | V 35       |
|                                           | 68369 | M 42 (4G) |                            | 68410 | U 32        |                  | 68329 | H 14      |                             | 68429 | V 42       |
|                                           | 68370 | M 54 (4G) |                            | 68411 | U 40        |                  | 68330 | H 16      |                             | 68430 | V 54       |
| Seppelfrickle Sudopress SKIN Visu-control | 68392 | TH 14     |                            | 68412 | U 50        | Valsir PEXAL     | 68333 | H 20      |                             | 68423 | V 15       |
|                                           | 68394 | TH 16     |                            | 68413 | U 63 (S)    |                  | 68335 | H 26      |                             | 68425 | V 18       |
|                                           | 68396 | TH 18     | Thermagagas Espace Express | 68392 | TH 14       |                  | 68329 | H 14      |                             | 68426 | V 22       |
|                                           | 68397 | TH 20     |                            | 68394 | TH 16       |                  | 68330 | H 16      | Viega Sanpress Inox G       | 68427 | V 28       |
|                                           | 68402 | TH 40     |                            | 68397 | TH 20       |                  | 68333 | H 20      |                             | 68428 | V 35       |
|                                           | 68403 | TH 50 (S) |                            | 68400 | TH 26       |                  | 68335 | H 26      |                             | 68429 | V 42       |
|                                           | 68404 | TH 63 (S) |                            | 68401 | TH 32       |                  | 68394 | TH 16     |                             | 68430 | V 54       |
| Seppelfrickle HENCO PRESS                 | 68394 | TH 16     | Thermolutz acular, rapid   | 68329 | H 14        |                  | 68395 | TH 17     |                             | 68392 | TH 14      |
|                                           | 68397 | TH 20     |                            | 68330 | H 16        |                  | 68397 | TH 20     | Viessmann                   | 68394 | TH 16      |
|                                           | 68400 | TH 26     |                            | 68331 | H 17        |                  | 68397 | TH 20     |                             | 68397 | TH 20      |
| SESTA Sistema multistrato                 | 68330 | H 16      | THISA Thisa multiplus      | 68406 | U 16        |                  | 68400 | U 20      |                             | 68400 | TH 26      |
|                                           | 68333 | H 20      |                            | 68407 | U 18        |                  | 68401 | U 25      |                             | 68401 | TH 32      |
|                                           | 68392 | TH 14     |                            | 68408 | U 20        |                  | 68402 | TH 40     |                             | 68402 | TH 40      |
|                                           | 68394 | TH 16     |                            | 68409 | U 25        |                  | 68403 | TH 50 (S) |                             | 68394 | TH 16      |
|                                           | 68396 | TH 18     |                            | 68410 | U 32        |                  | 68404 | TH 63 (S) |                             | 68396 | TH 18      |
|                                           | 68397 | TH 20     | THISA Thisa Pex            | 68411 | U 40        |                  | 68392 | TH 14     |                             | 68397 | TH 20      |
|                                           | 68400 | TH 26     |                            | 68406 | U 16        |                  | 68394 | TH 16     | V.I. Trade VITerm           | 68398 | TH 25      |
|                                           | 68401 | TH 32     |                            | 68408 | U 20        |                  | 68396 | TH 18     |                             | 68401 | TH 32      |
|                                           | 68402 | TH 40     |                            | 68409 | U 25        |                  | 68397 | TH 20     |                             | 68361 | M 12       |
|                                           | 68403 | TH 50 (S) |                            | 68410 | U 32        |                  | 68398 | TH 25     |                             | 68363 | M 15       |
|                                           | 68404 | TH 63 (S) | TIEMME COBRAPRESS          | 68392 | TH 14       |                  | 68399 | TH 26     |                             | 68365 | M 18       |
|                                           | 68406 | U 16      |                            | 68394 | TH 16       |                  | 68397 | TH 20     |                             | 68366 | M 22       |
|                                           | 68408 | U 20      |                            | 68396 | TH 18       |                  | 68397 | TH 20     |                             | 68367 | M 28       |
| SIKO TYPRO                                | 68392 | TH 14     |                            | 68398 | TH 25       |                  | 68398 | TH 25     |                             | 68368 | M 35       |
|                                           | 68394 | TH 16     |                            | 68400 | TH 26       |                  | 68400 | TH 26     |                             | 68369 | M 42 (4G)  |
|                                           | 68396 | TH 18     |                            | 68401 | TH 32       |                  | 68401 | TH 32     |                             | 68370 | M 54 (4G)  |
|                                           | 68397 | TH 20     |                            | 68402 | TH 40       |                  | 68402 | TH 40     |                             | 68363 | M 15       |
|                                           | 68400 | TH 26     |                            | 68403 | TH 50 (S)   |                  | 68403 | TH 50 (S) |                             | 68365 | M 18       |
|                                           | 68392 | TH 14     |                            | 68404 | TH 63 (S)   |                  | 68404 | TH 63 (S) |                             | 68366 | M 22       |
|                                           | 68394 | TH 16     |                            | 68329 | H 14        |                  | 68329 | H 14      |                             | 68367 | M 28       |
|                                           | 68396 | TH 18     |                            | 68330 | H 16        |                  | 68331 | H 17      |                             | 68368 | M 35       |
|                                           | 68397 | TH 20     | TKM Fellingsbro TKMPRESS   | 68331 | H 17        |                  | 68332 | H 18      |                             | 68363 | M 15       |
|                                           | 68400 | TH 26     |                            | 68332 | H 18        |                  | 68333 | H 20      |                             | 68365 | M 18       |
|                                           | 68406 | U 16      |                            | 68333 | H 20        |                  | 68335 | H 26      |                             | 68366 | M 22       |
|                                           | 68408 | U 20      |                            | 68335 | H 26        |                  | 68336 | H 32      |                             | 68367 | M 28       |
|                                           | 68335 | H 26      |                            | 68337 | H 40 (4G)   |                  | 68337 | H 40 (4G) |                             | 68368 | M 35       |
|                                           | 68410 | U 32      |                            | 68406 | U 16        | TRA MULTISAPER   | 68406 | U 16      |                             | 68363 | M 15       |
|                                           | 68330 | H 16      |                            | 68408 | U 20        |                  | 68408 | U 20      |                             | 68365 | M 18       |
|                                           | 68333 | H 20      |                            | 68409 | U 25        |                  | 68409 | U 25      |                             | 68366 | M 22       |
|                                           | 68336 | H 32      |                            | 68410 | U 32        |                  | 68410 | U 32      |                             | 68367 | M 28       |
|                                           | 68392 | TH 14     |                            | 68411 | U 40        |                  | 68411 | U 40      |                             | 68368 | M 35       |
|                                           | 68394 | TH 16     |                            | 68412 | U 50        |                  | 68412 | U 50      |                             | 68405 | U 14       |
|                                           | 68396 | TH 18     | TRA TRAPRESS               | 68328 | H 12        |                  | 68421 | V 12      |                             | 68406 | U 16       |
|                                           | 68397 | TH 20     |                            | 68330 | H 16        |                  | 68423 | V 15      |                             | 68408 | U 20       |
|                                           | 68400 | TH 26     |                            | 68331 | H 17        |                  | 68425 | V 18      |                             | 68409 | U 25       |
|                                           | 68401 | TH 32     |                            | 68332 | H 18        |                  | 68426 | V 22      |                             | 68410 | U 32       |
|                                           | 68402 | TH 40     |                            | 68333 | H 20        |                  | 68427 | V 28      |                             | 68411 | U 40       |
|                                           | 68403 | TH 50 (S) |                            | 68335 | H 26        |                  | 68428 | V 35      |                             | 68363 | M 15       |
|                                           | 68404 | TH 63 (S) |                            | 68336 | H 32        |                  | 68429 | V 42      |                             | 68365 | M 18       |
|                                           | 68421 | V 12      | Tréfirmétaux Qtec          | 68337 | H 40 (4G)   |                  | 68430 | V 54      |                             | 68366 | M 22       |
|                                           | 68423 | V 15      |                            | 68406 | U 16        |                  | 68431 | VG 14     |                             | 68367 | M 28       |
|                                           | 68425 | V 18      |                            | 68408 | U 20        |                  | 68432 | VG 15     |                             | 68368 | M 35       |
|                                           | 68426 | V 22      |                            | 68409 | U 25        |                  | 68433 | VG 16     |                             | 68369 | M 42 (4G)  |
|                                           | 68427 | V 28      | Ulric VARIOFLEX-HAKAPRESS  | 68410 | U 32        |                  | 68434 | VG 17     |                             | 68370 | M 54 (4G)  |
|                                           | 68428 | V 35      |                            | 68411 | U 40        |                  | 68435 | V 18      |                             | 68405 | U 14       |
|                                           | 68429 | V 42      |                            | 68412 | U 50        |                  | 68436 | V 22      |                             | 68406 | U 16       |
|                                           | 68430 | V 54      |                            | 68413 | U 63 (S)    |                  | 68437 | V 28      |                             | 68408 | U 20       |
|                                           | 68406 | U 16      |                            | 68414 | U 70 (S)    |                  | 68438 | V 35      |                             | 68409 | U 25       |
|                                           | 68407 | U 18      |                            | 68415 | U 80 (S)    |                  | 68439 | V 42      |                             | 68410 | U 32       |
|                                           | 68408 | U 20      | UNICALAG MAX MULTIPLEX     | 68416 | U 90 (S)    |                  | 68440 | V 54      |                             | 68411 | U 40       |
|                                           | 68409 | U 25      |                            | 68417 | U 100 (S)   |                  | 68441 | V 60 (S)  |                             | 68361 | M 12       |
|                                           | 68410 | U 32      |                            | 68418 | U 110 (S)   |                  | 68442 | V 66 (S)  |                             | 68363 | M 15       |
|                                           | 68411 | U 40      |                            | 68419 | U 120 (S)   |                  | 68443 | V 72 (S)  |                             | 68365 | M 18       |
|                                           | 68412 | U 50      |                            | 68420 | U 130 (S)   |                  | 68444 | V 78 (S)  |                             | 68366 | M 22       |
|                                           | 68413 | U 63 (S)  |                            | 68421 | U 140 (S)   |                  | 68445 | V 84 (S)  |                             | 68367 | M 28       |
|                                           | 68392 | TH 14     | UNIDELTA Deltall           | 68422 | U 150 (S)   |                  | 68446 | VX 12     |                             | 68368 | M 35       |
|                                           | 68394 | TH 16     |                            | 68423 | U 160 (S)   |                  | 68447 | VX 20     |                             | 68405 | U 14       |
|                                           | 68396 | TH 18     |                            | 68424 | U 170 (S)   |                  | 68448 | VX 28     |                             | 68406 | U 16       |
|                                           | 68397 | TH 20     |                            | 68425 | U 180 (S)   |                  | 68449 | VX 36     |                             | 68408 | U 20       |
|                                           | 68400 | TH 26     |                            | 68426 | U 190 (S)   |                  | 68450 | VX 44     |                             | 68409 | U 25       |
|                                           | 68401 | TH 32     |                            | 68427 | U 200 (S)   |                  | 68451 | VX 52     |                             | 68410 | U 32       |
|                                           | 68402 | TH 40     |                            | 68428 | U 210 (S)   |                  | 68452 | VX 60     |                             | 68411 | U 40       |
|                                           | 68403 | TH 50 (S) |                            | 68429 | U 220 (S)   |                  | 68453 | VX 68     |                             | 68363 | M 15       |
|                                           | 68404 | TH 63 (S) |                            | 68430 | U 230 (S)   |                  | 68454 | VX 76     |                             | 68365 | M 18       |
|                                           | 68392 | TH 14     |                            | 68431 | U 240 (S)   |                  | 68455 | VX 84     |                             | 68366 | M 22       |
|                                           | 68394 | TH 16     |                            | 68432 | U 250 (S)   |                  | 68456 | VX 92     |                             | 68367 | M 28       |
|                                           | 68396 | TH 18     |                            | 68433 | U 260 (S)   |                  | 68457 | VX 100    |                             | 68368 | M 35       |
|                                           | 68397 | TH 20     |                            | 68434 | U 270 (S)   |                  | 68458 | VX 108    |                             | 68369 | M 42 (4G)  |
|                                           | 68400 | TH 26     |                            | 68435 | U 280 (S)   |                  | 68459 | VX 116    |                             | 68370 | M 54 (4G)  |
|                                           | 68401 | TH 32     |                            | 68436 | U 290 (S)   |                  | 68460 | VX 124    |                             | 68363 | M 15       |
|                                           | 68402 | TH 40     |                            | 68437 | U 300 (S)   |                  | 68461 | VX 132    |                             | 68365 | M 18       |
|                                           | 68403 | TH 50 (S) |                            | 68438 | U 310 (S)   |                  | 68462 | VX 140    |                             | 68366 | M 22       |
|                                           | 68404 | TH 63 (S) |                            | 68439 | U 320 (S)   |                  | 68463 | VX 148    |                             | 68367 | M 28       |
|                                           | 68392 | TH 14     |                            | 68440 | U 330 (S)   |                  | 68464 | VX 156    |                             | 68368 | M 35       |
|                                           | 68394 | TH 16     |                            | 68441 | U 340 (S)   |                  | 68465 | VX 164    |                             | 68405 | U 14       |
|                                           | 68396 | TH 18     |                            | 68442 | U 350 (S)   |                  | 68466 | VX 172    |                             | 68406 | U 16       |
|                                           | 68397 | TH 20     |                            | 68443 | U 360 (S)   |                  | 68467 | VX 180    |                             | 68408 | U 20       |
|                                           | 68400 | TH 26     |                            | 68444 | U 370 (S)   |                  | 68468 | VX 188    |                             | 68409 | U 25       |
|                                           | 68401 | TH 32     |                            | 68445 | U 380 (S)   |                  | 68469 | VX 196    |                             | 68410 | U 32       |
|                                           | 68402 | TH 40     |                            | 68446 | U 390 (S)   |                  | 68470 | VX 204    | </                          |       |            |

| SYSTEM         | COD.         | TYPE        |
|----------------|--------------|-------------|
| VSH Fittings   | <b>68363</b> | M 15        |
| VSH Press      | <b>68365</b> | M 18        |
| Copper Solar   | <b>68366</b> | M 22        |
|                | <b>68367</b> | M 28        |
|                | <b>68368</b> | M 35        |
| VSH Fittings   | <b>68363</b> | M 15        |
| VSH Press      | <b>68365</b> | M 18        |
| Stainless      | <b>68366</b> | M 22        |
|                | <b>68367</b> | M 28        |
|                | <b>68368</b> | M 35        |
|                | <b>68369</b> | M 42 (4G)   |
|                | <b>68370</b> | M 54 (4G)   |
| VSH Fittings   | <b>68361</b> | M 12        |
| Xpress         | <b>68363</b> | M 15        |
| Carbon         | <b>68365</b> | M 18        |
|                | <b>68366</b> | M 22        |
|                | <b>68367</b> | M 28        |
|                | <b>68368</b> | M 35        |
|                | <b>68369</b> | M 42 (4G)   |
|                | <b>68370</b> | M 54 (4G)   |
| VSH Fittings   | <b>68363</b> | M 15        |
| Xpress         | <b>68365</b> | M 18        |
| Copper         | <b>68366</b> | M 22        |
|                | <b>68367</b> | M 28        |
|                | <b>68368</b> | M 35        |
| VSH Fittings   | <b>68363</b> | M 15        |
| Xpress         | <b>68365</b> | M 18        |
| Copper Gas     | <b>68366</b> | M 22        |
|                | <b>68367</b> | M 28        |
|                | <b>68368</b> | M 35        |
| VSH Fittings   | <b>68363</b> | M 15        |
| Xpress         | <b>68365</b> | M 18        |
| Copper Solar   | <b>68366</b> | M 22        |
|                | <b>68367</b> | M 28        |
|                | <b>68368</b> | M 35        |
| VSH Fittings   | <b>68363</b> | M 15        |
| Xpress         | <b>68365</b> | M 18        |
| Stainless      | <b>68366</b> | M 22        |
|                | <b>68367</b> | M 28        |
|                | <b>68368</b> | M 35        |
|                | <b>68369</b> | M 42 (4G)   |
|                | <b>68370</b> | M 54 (4G)   |
|                | <b>68406</b> | U 16        |
|                | <b>68407</b> | U 18        |
|                | <b>68408</b> | U 20        |
| Walter Meier   | <b>68409</b> | U 25        |
| Metalplast     | <b>68410</b> | U 32        |
|                | <b>68411</b> | U 40        |
|                | <b>68412</b> | U 50        |
|                | <b>68413</b> | U 63 (S)    |
| Watts MTR      | <b>68394</b> | TH 16       |
| Art Press      | <b>68397</b> | TH 20       |
|                | <b>68400</b> | TH 26       |
|                | <b>68401</b> | TH 32       |
| WATTS MTR      | <b>68418</b> | US 3/8"     |
| RADIANT        | <b>68416</b> | US 1.1/4"   |
| Watts WaterPEX | <b>68417</b> | US 1.1/2"   |
|                | <b>68415</b> | US 1"       |
|                | <b>68420</b> | US 1.1/4"   |
| WATTS          | <b>68418</b> | US 3/8"     |
| RADIANT        | <b>68416</b> | US 1.1/4"   |
| Watts          | <b>68417</b> | US 1.1/2"   |
| RadiantPEX     | <b>68415</b> | US 1"       |
|                | <b>68420</b> | US 1.1/4"   |
| WATTS          | <b>68406</b> | U 16 (1/2") |
| RADIANT        | <b>68408</b> | U 20 (5/8") |
| Watts          | <b>68409</b> | U 25 (3/4") |
| RadiantPEX-AL  | <b>68410</b> | U 32 (1")   |
|                | <b>68405</b> | U 14        |
|                | <b>68406</b> | U 16        |
|                | <b>68408</b> | U 20        |
| Wavin          | <b>68409</b> | U 25        |
| Tigris K1      | <b>68410</b> | U 32        |
|                | <b>68411</b> | U 40        |
|                | <b>68412</b> | U 50        |
|                | <b>68405</b> | U 14        |
|                | <b>68406</b> | U 16        |
|                | <b>68408</b> | U 20        |
| Wavin          | <b>68409</b> | U 25        |
| Tigris M1      | <b>68410</b> | U 32        |
|                | <b>68411</b> | U 40        |
|                | <b>68412</b> | U 50        |
|                | <b>68406</b> | U 16        |
|                | <b>68408</b> | U 20        |
| Wavin          | <b>68409</b> | U 25        |
| K-press        | <b>68410</b> | U 32        |
|                | <b>68411</b> | U 40        |
|                | <b>68412</b> | U 50        |
|                | <b>68406</b> | U 16        |
|                | <b>68408</b> | U 20        |
| Wavin          | <b>68409</b> | U 25        |
| TIGRIS ALUPEX  | <b>68410</b> | U 32        |
|                | <b>68411</b> | U 40        |
|                | <b>68412</b> | U 50        |
|                | <b>68406</b> | U 16        |
|                | <b>68408</b> | U 20        |
| Wavin          | <b>68409</b> | U 25        |
| TIGRIS BLUE    | <b>68410</b> | U 32        |
|                | <b>68411</b> | U 40        |
|                | <b>68412</b> | U 50        |
|                | <b>68421</b> | V 12        |
|                | <b>68423</b> | V 15        |
|                | <b>68425</b> | V 18        |
| WeeConPress    | <b>68426</b> | V 22        |
| Cu             | <b>68427</b> | V 28        |
|                | <b>68428</b> | V 35        |
|                | <b>68429</b> | V 42        |
|                | <b>68430</b> | V 54        |
|                | <b>68423</b> | V 15        |
|                | <b>68425</b> | V 18        |
| WeeConPress    | <b>68426</b> | V 22        |
| Cu Gas         | <b>68427</b> | V 28        |
|                | <b>68428</b> | V 35        |
|                | <b>68429</b> | V 42        |
|                | <b>68430</b> | V 54        |

| SYSTEM          | COD.         | TYPE         |
|-----------------|--------------|--------------|
|                 | <b>68361</b> | M 12         |
|                 | <b>68363</b> | M 15         |
| WeeConPress     | <b>68365</b> | M 18         |
| C-Stahl         | <b>68366</b> | M 22         |
|                 | <b>68367</b> | M 28         |
|                 | <b>68368</b> | M 35         |
|                 | <b>68369</b> | M 42 (4G)    |
|                 | <b>68370</b> | M 54 (4G)    |
|                 | <b>68361</b> | M 12         |
|                 | <b>68363</b> | M 15         |
| WeeConPress     | <b>68365</b> | M 18         |
| Inox            | <b>68366</b> | M 22         |
|                 | <b>68367</b> | M 28         |
|                 | <b>68368</b> | M 35         |
|                 | <b>68369</b> | M 42 (4G)    |
|                 | <b>68370</b> | M 54 (4G)    |
| WeeConPress     | <b>68363</b> | M 15         |
| Inox Gas        | <b>68365</b> | M 18         |
|                 | <b>68366</b> | M 22         |
|                 | <b>68367</b> | M 28         |
|                 | <b>68368</b> | M 35         |
|                 | <b>68369</b> | M 42 (4G)    |
|                 | <b>68370</b> | M 54 (4G)    |
| WeeConFlex      | <b>68394</b> | TH 16        |
| MVR             | <b>68397</b> | TH 20        |
|                 | <b>68400</b> | TH 26        |
|                 | <b>68401</b> | TH 32        |
|                 | <b>68402</b> | TH 40        |
|                 | <b>68403</b> | TH 50 (S)    |
|                 | <b>68404</b> | TH 63 (S)    |
| WEFA PLASTIC    | <b>68330</b> | H 16         |
| WEFATHERM-PRESS | <b>68333</b> | H 20         |
|                 | <b>68335</b> | H 26         |
|                 | <b>68336</b> | H 32         |
| WEM             | <b>68330</b> | H 16         |
|                 | <b>68406</b> | U 16         |
| WIELAND         | <b>68392</b> | TH 14        |
| cuprotherm      | <b>68394</b> | TH 16        |
| CTX             | <b>68396</b> | TH 18        |
|                 | <b>68397</b> | TH 20        |
|                 | <b>68400</b> | TH 26        |
| Winkler         | <b>68392</b> | TH 14        |
|                 | <b>68394</b> | TH 16        |
|                 | <b>68396</b> | TH 18        |
|                 | <b>68397</b> | TH 20        |
|                 | <b>68400</b> | TH 26        |
|                 | <b>68401</b> | TH 32        |
|                 | <b>68402</b> | TH 40        |
|                 | <b>68403</b> | TH 50 (S)    |
| WKS-Press       | <b>68392</b> | TH 14        |
|                 | <b>68394</b> | TH 16        |
|                 | <b>68396</b> | TH 18        |
|                 | <b>68397</b> | TH 20        |
|                 | <b>68400</b> | TH 26        |
|                 | <b>68401</b> | TH 32        |
|                 | <b>68402</b> | TH 40        |
|                 | <b>68312</b> | F 16         |
|                 | <b>68314</b> | F 20         |
|                 | <b>68315</b> | F 26         |
|                 | <b>68316</b> | F 32         |
|                 | <b>68330</b> | H 16         |
|                 | <b>68333</b> | H 20         |
|                 | <b>68335</b> | H 26         |
| XtraConnect     | <b>68336</b> | H 32         |
|                 | <b>68394</b> | TH 16        |
|                 | <b>68397</b> | TH 20        |
|                 | <b>68400</b> | TH 26        |
|                 | <b>68401</b> | TH 32        |
|                 | <b>68406</b> | U 16         |
|                 | <b>68408</b> | U 20         |
|                 | <b>68409</b> | (NW 26) U 25 |
|                 | <b>68410</b> | U 32         |
|                 | <b>68392</b> | TH 14        |
|                 | <b>68394</b> | TH 16        |
|                 | <b>68396</b> | TH 18        |
| Zetaesse        | <b>68397</b> | TH 20        |
| Multistrato     | <b>68400</b> | TH 26        |
| EUROPEX         | <b>68401</b> | TH 32        |
|                 | <b>68405</b> | U 14         |
|                 | <b>68406</b> | U 16         |
|                 | <b>68407</b> | U 18         |
|                 | <b>68408</b> | U 20         |
|                 | <b>68392</b> | TH 14        |
|                 | <b>68394</b> | TH 16        |
|                 | <b>68396</b> | TH 18        |
| Zetaesse        | <b>68397</b> | TH 20        |
| Multistrato     | <b>68400</b> | TH 26        |
| ISOPEX          | <b>68401</b> | TH 32        |
|                 | <b>68405</b> | U 14         |
|                 | <b>68406</b> | U 16         |
|                 | <b>68407</b> | U 18         |
|                 | <b>68408</b> | U 20         |
|                 | <b>68392</b> | TH 14        |
|                 | <b>68394</b> | TH 16        |
| Zetaesse Rame   | <b>68397</b> | TH 20        |
| HydroSAN        | <b>68405</b> | U 14         |
|                 | <b>68406</b> | U 16         |
|                 | <b>68408</b> | U 20         |
|                 | <b>68392</b> | TH 14        |
|                 | <b>68394</b> | TH 16        |
| Zetaesse Rame   | <b>68397</b> | TH 20        |
| ThermoSan       | <b>68405</b> | U 14         |
|                 | <b>68406</b> | U 16         |
|                 | <b>68408</b> | U 20         |
|                 | <b>68394</b> | TH 16        |
|                 | <b>68395</b> | TH 17        |
|                 | <b>68397</b> | TH 20        |
| ZEWOHERM        | <b>68400</b> | TH 26        |
|                 | <b>68401</b> | TH 32        |
|                 | <b>68402</b> | TH 40        |
|                 | <b>68403</b> | TH 50 (S)    |
|                 | <b>68404</b> | TH 63 (S)    |
| ZURN            | <b>68418</b> | US 3/8"      |
| INDUSTRIES      | <b>68416</b> | US 1.1/4"    |
| ZURN PEX        | <b>68417</b> | US 1.1/2"    |
|                 | <b>68415</b> | US 1"        |
|                 | <b>68420</b> | US 1.1/4"    |

### ■ PRESSMATIC MINI PORTABLE

La máquina de prensado radial Pressmatic mini Portable es compacta, manejable, ligera y portátil. El sistema de portatenazas giratoria permite acceder fácilmente a los lugares de mas difícil acceso de forma cómoda e incluso a una sola mano. La rapidez de esta maquina se ve implementada por el sistema rápido de portamordazas, que permite un cambio eficiente y seguro de mordazas, así como por el sistema de retorno automático, que elimina tiempos muertos en las operaciones de prensado. Su batería de 14.4V, 1.65 Ah le da una larga autonomía de uso en lugares sin red eléctrica, teniendo la posibilidad de ser empleado con conexión a la red para lugares con acceso de red (accesorio opcional).

Consulte en las siguientes páginas qué mordaza debe seleccionar dependiendo del sistema de accesorios de prensar que vaya a emplear.

*Pressmatic mini portable pressfitting machine is compact, handy, light and portable. The revolving press jaw carrying system enables jobs in difficult places, in a comfortable way even one handed. The press jaw carrying system as well as the automatic reverse system make it extremely quick and safe, saving time and making the job more efficient. The 14.4V, 1.65 Ah battery provides long autonomy in places without electricity. An optional accessory also provides an electric plug connection where electricity is available.*

*Check the following pages to make the right choice of pressing jaws depending on the pres fitting system you may use.*

La machine à sertissage Radial Pressmatic mini Portable est compacte, maniable, légère et portable. Le système de porte-machoirs pivotant, permet d'accéder facilement dans des coins exigüs et d'une seule main. La vitesse de cette machine est complétée par un système rapide de porte-machoirs qui permet d'éviter les temps morts durant les opérations de sertissage. Sa batterie de 14.4 Volts, 1.65 Ah lui confère une grande autonomie dans les sites sans réseau électrique et peut être connectée au réseau (accessoire en option).

Consultez dans les pages suivantes, la machoire à sélectionner suivant le système d'accessoires à utiliser.



| COD.         | V                    | CAP. Ø (mm) | BAT. |   |   |     |
|--------------|----------------------|-------------|------|---|---|-----|
| <b>60214</b> | 220-240 V (50-60 Hz) | 10-40       | ●    | ● | ● | 2,5 |

CE I 12M



### ■ ACCESORIOS / ACCESSORIES / ACCESSOIRES / ZUBEHÖR / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ

| COD.         | Descripción / Description / Description           | V               |     |
|--------------|---------------------------------------------------|-----------------|-----|
| <b>85005</b> | Batería Li-Ion / Li-Ion Battery / Batterie Li-Ion | 14.4 V, 1.65 Ah | 0,3 |

| COD.         | Descripción / Description / Description           | V                         |     |
|--------------|---------------------------------------------------|---------------------------|-----|
| <b>85009</b> | Cargador rápido / Quick charger / Chargeur rapide | 220-240 V (50-60 Hz) 65 W | 0,5 |

| COD.         | Descripción / Description / Description | V                    |     |
|--------------|-----------------------------------------|----------------------|-----|
| <b>85010</b> | Conexión / Connection / Connexion       | 220-240 V (50-60 Hz) | 0,8 |





**MORDAZAS PARA PRENSADO RADIAL / RADIAL PRESS FITTING TONGUES / MACHOÏRES POUR RACCORDS / RADIALPRESSZANGEN / Morsa per Press Fitting Radial / MANDÍBULAS PARA PRENSAR RADIAÍS / НАСАДКИ**



Las mordazas de prensar EGA Master están fabricadas en acero especial forjado, con un endurecimiento especial que le confiere la máxima seguridad de prensado. Los contornos están diseñados específicamente para cada sistema de accesorios, habiendo sido mecanizados en centros de mecanizado de alta precisión, presentando así tolerancias inferiores a los realizados por microfusión, ofreciendo la máxima fiabilidad de prensado con cualquier sistema de accesorios de prensar. Se utilizan con las máquinas de prensar Pressmatic Mini. También son empleables por máquinas de otros fabricantes.

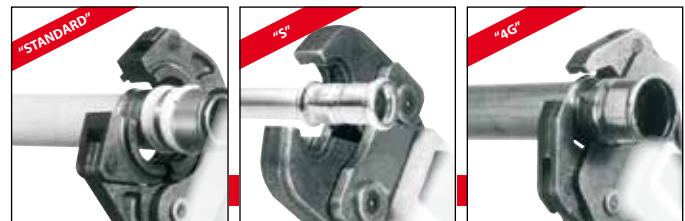
*EGA Master pressing jaws are manufactured in special forging steel, being specially hardened. These features provide them with maximum working safety. Pressing contours are specifically designed for each pressing fitting system. They have been machined with high precision CNC machines, having much lower tolerances than microfusion, granting in this way maximum pressing reliability with any press fitting system. They are used with Pressmatic Mini pressfitting machines. They can also be used in other manufacturers machines.*

Les machoïres à sertir Egamaster sont fabriquées à partir d'un acier forgé spécial, avec une dureté qui lui confère une sécurité de sertissage maximum. Les contours sont conçus spécifiquement pour chaque système d'accessoires, étant usinés dans des ateliers de grande précision, donnant de cette façon des tolérances inférieures à celles acquises par microfusion, garantissant le maximum de fiabilité du sertissage avec tous les systèmes d'accessoires à sertir. Les machoïres sont utilisées avec les machines à sertir Pressmatic Mini. Elles peuvent être aussi utilisées avec les machines d'autres fabricants.

Consulte en las siguientes páginas qué mordaza debe seleccionar dependiendo del sistema de accesorios de prensar que vaya a emplear.

*Check the following pages to make the right choice of pressing jaws depending on the press fitting system you may use.*

Consultez dans les pages suivantes, la machoïre à sélectionner suivant le système d'accessoires à utiliser.



|     |  |     |  |    |  |     |  |
|-----|--|-----|--|----|--|-----|--|
| ACz |  | B   |  | F  |  | G   |  |
| H   |  | K   |  | KI |  | M   |  |
| MT  |  | RFz |  | RN |  | SA  |  |
| TH  |  | U   |  | UP |  | US  |  |
| V   |  | VP  |  | VX |  | VUS |  |

■ PRESSMATIC MINI PORTABLE

| SYSTEM                                              | COD.                                                                  | TYPE                         | SYSTEM                                 | COD.                                              | TYPE                                              | SYSTEM                                            | COD.                                              | TYPE                                              | SYSTEM                                            | COD.                                              | TYPE                                              |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|-----------------------------------------------------|-----------------------------------------------------------------------|------------------------------|----------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|-------|
| AC-FIX PRESS<br>(Global Piping<br>Systems)          | 51359                                                                 | H 12                         | BARBI MULTIPEX<br>(Industrial Blansol) | 51405                                             | RFz 32                                            | Climatek Klima<br>Therm                           | 51339                                             | TH 14                                             | Dia Norm HKS<br>Sitec Press                       | 51339                                             | TH 14                                             |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51361                                                                 | H 16                         |                                        | 51361                                             | H 16                                              |                                                   | 51341                                             | TH 16                                             |                                                   | 51341                                             | TH 16                                             |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51364                                                                 | H 20                         |                                        | 51363                                             | H 18                                              |                                                   | 51343                                             | TH 18                                             |                                                   | 51343                                             | TH 18                                             |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51365                                                                 | H 25                         |                                        | 51364                                             | H 20                                              |                                                   | 51344                                             | TH 20                                             |                                                   | 51344                                             | TH 20                                             |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51367                                                                 | H 32                         |                                        | 51361                                             | H 26                                              |                                                   | 51346                                             | TH 26                                             |                                                   | 51346                                             | TH 26                                             |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51401                                                                 | RFz 12                       |                                        | 51367                                             | H 32                                              |                                                   | 51347                                             | TH 32                                             |                                                   | 51347                                             | TH 32                                             |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51402                                                                 | RFz 16                       |                                        | 51391                                             | B 14                                              |                                                   | 51339                                             | TH 14                                             |                                                   | 51339                                             | TH 14                                             |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51403                                                                 | RFz 20                       |                                        | 51392                                             | B 16                                              |                                                   | 51341                                             | TH 16                                             |                                                   | 51341                                             | TH 16                                             |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51404                                                                 | RFz 25                       |                                        | 51393                                             | B 18                                              |                                                   | 51343                                             | TH 18                                             |                                                   | 51343                                             | TH 18                                             |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51405                                                                 | RFz 32                       |                                        | 51394                                             | B 20                                              |                                                   | 51344                                             | TH 20                                             |                                                   | 51344                                             | TH 20                                             |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| AC-FIX<br>PRESS-MULTI<br>(Global Piping<br>Systems) | 51351                                                                 | U 16                         | BEGETUBE / IVAR                        | 51395                                             | B 26                                              | ClouSet Press                                     | 51346                                             | TH 26                                             | DIWAflex systems                                  | 51346                                             | TH 26                                             |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51353                                                                 | U 20                         |                                        | 51396                                             | B 32                                              |                                                   | 51347                                             | TH 32                                             |                                                   | 51347                                             | TH 32                                             |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51354                                                                 | U 25                         |                                        | BRASELI<br>Pressfitting PE-X                      | 51402                                             |                                                   | RFz 16                                            | Comap<br>Sudopress Cu<br>Visu-Control             |                                                   | 51326                                             | V 12                                              | DUOFIL<br>MKSYSYSTEM                              | 51351                                             | U 16                                                  |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51355                                                                 | U 32                         |                                        |                                                   | 51403                                             |                                                   | RFz 20                                            |                                                   |                                                   | 51327                                             | V 14                                              |                                                   | 51352                                             | U 18                                                  |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51422                                                                 | VX 16                        |                                        |                                                   | 51404                                             |                                                   | RFz 25                                            |                                                   |                                                   | 51328                                             | V 15                                              |                                                   | 51353                                             | U 20                                                  |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51423                                                                 | VX 20                        |                                        |                                                   | 51405                                             |                                                   | RFz 32                                            |                                                   |                                                   | 51329                                             | V 16                                              |                                                   | 51354                                             | U 25                                                  |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | AC-FIX<br>PRESS-MULTI<br>(Global Piping<br>Systems)                   | 51361                        |                                        |                                                   | H 16                                              |                                                   | BRASELI<br>Pressfitting<br>Multicapa              |                                                   |                                                   | 51351                                             | U 16                                              |                                                   | Comap Sudopress<br>Cu Visu-Control<br>Gas         | 51330                                                 | V 18                                              | DW Verbundrohr<br>multitubo systems               | 51355                                                 | U 32                                              |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     |                                                                       | 51363                        |                                        |                                                   | H 18                                              |                                                   |                                                   |                                                   |                                                   | 51352                                             | U 18                                              |                                                   |                                                   | 51331                                                 | V 22                                              |                                                   | 51351                                                 | U 16                                              |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     |                                                                       | 51364                        |                                        |                                                   | H 20                                              |                                                   |                                                   |                                                   |                                                   | 51353                                             | U 20                                              |                                                   |                                                   | 51332                                                 | V 28                                              |                                                   | 51352                                                 | U 18                                              |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     |                                                                       | 51365                        |                                        |                                                   | H 25                                              |                                                   |                                                   |                                                   |                                                   | 51354                                             | U 25                                              |                                                   |                                                   | 51327                                                 | V 14                                              |                                                   | 51353                                                 | U 20                                              |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51367                                               |                                                                       | H 32                         | 51355                                  |                                                   | U 32                                              | 51328                                             |                                                   |                                                   | V 15                                              | 51354                                             | U 25                                              |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51402                                               |                                                                       | RFz 16                       | 51356                                  |                                                   | U 40                                              | 51329                                             |                                                   |                                                   | V 16                                              | 51355                                             | U 32                                              |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51403                                               |                                                                       | RFz 20                       | Brass Form Press<br>Form Pex           | 51361                                             | H 16                                              | Comap Sudopress<br>Cu Visu-Control<br>Solar       |                                                   | 51330                                             | V 18                                              | EFFEBI<br>PRESSTIGE                               | 51321                                             | M 15                                              |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51404                                               |                                                                       | RFz 25                       |                                        | 51363                                             | H 18                                              |                                                   |                                                   | 51331                                             | V 22                                              |                                                   | 51322                                             | M 18                                              |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51405                                               |                                                                       | RFz 32                       |                                        | 51364                                             | H 20                                              |                                                   |                                                   | 51332                                             | V 28                                              |                                                   | 51323                                             | M 22                                              |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51351                                               |                                                                       | U 16                         |                                        | 51341                                             | TH 16                                             |                                                   |                                                   | 51327                                             | V 14                                              |                                                   | 51324                                             | M 28                                              |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51352                                               | U 18                                                                  | 51343                        |                                        | TH 18                                             | Comap Sudopress<br>Cu Visu-Control<br>Solar       |                                                   | 51328                                             | V 15                                              | 51328                                             |                                                   | V 15                                              |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51353                                               | U 20                                                                  | 51344                        |                                        | TH 20                                             |                                                   |                                                   | 51329                                             | V 16                                              | 51330                                             |                                                   | V 18                                              |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51354                                               | U 25                                                                  | 51344                        |                                        | TH 20                                             |                                                   |                                                   | 51330                                             | V 18                                              | 51331                                             |                                                   | V 22                                              |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51355                                               | U 32                                                                  | 51351                        |                                        | U 16                                              |                                                   |                                                   | 51331                                             | V 22                                              | 51332                                             |                                                   | V 28                                              |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| ACOME MT                                            | 51445                                                                 | ACz 12                       |                                        | Brass & Fittings<br>RETI-PRESS                    |                                                   |                                                   | 51352                                             | U 18                                              | Comap PexPress                                    |                                                   | 51401                                             | RFz 12                                            | EFFEBI TOF<br>MULTIPINZA                          | 51341                                                 | TH 16                                             |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51446                                                                 | ACz 16                       |                                        |                                                   |                                                   |                                                   | 51402                                             | RFz 16                                            |                                                   |                                                   | 51402                                             | RFz 16                                            |                                                   | 51343                                                 | TH 18                                             |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51447                                                                 | ACz 20                       | 51447                                  |                                                   |                                                   | ACz 20                                            | 51403                                             | RFz 20                                            |                                                   | 51344                                             | TH 20                                             |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51448                                                                 | ACz 25                       | 51404                                  |                                                   |                                                   | RFz 25                                            | 51404                                             | RFz 25                                            |                                                   | 51346                                             | TH 26                                             |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | AHSSELL<br>A -press<br>elförzinkad                                    | 51320                        | M 12                                   |                                                   |                                                   | BRASSTECH<br>MULTItermoSAN<br>Brasspress          | 51405                                             | RFz 32                                            |                                                   | Comap SKINPress<br>Visu-Control Gas               | 51341                                             | TH 16                                             |                                                   | EFFEBI TOF<br>MULTIPINZA                              | 51347                                             | TH 32                                             |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     |                                                                       | 51321                        | M 15                                   |                                                   |                                                   |                                                   | 51361                                             | H 16                                              |                                                   |                                                   | 51344                                             | TH 20                                             |                                                   |                                                       | 51386                                             | F 16                                              |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     |                                                                       | 51322                        | M 18                                   |                                                   | 51363                                             |                                                   | H 18                                              | 51346                                             |                                                   |                                                   | TH 26                                             | 51387                                             |                                                   |                                                       | F 18                                              |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     |                                                                       | 51323                        | M 22                                   |                                                   | 51364                                             |                                                   | H 20                                              | 51349                                             |                                                   |                                                   | THL 32                                            | 51388                                             |                                                   |                                                       | F 20                                              |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     |                                                                       | 51324                        | M 28                                   |                                                   | 51366                                             |                                                   | H 26                                              | Comap SKINPress<br>Visu-Control                   |                                                   |                                                   | 51339                                             | TH 14                                             |                                                   |                                                       | 51389                                             | F 26                                              |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     |                                                                       | AHSSELL<br>A -press koppar   | 51326                                  |                                                   | V 12                                              |                                                   | BUCCHI tech MP                                    |                                                   |                                                   |                                                   | 51341                                             | TH 16                                             |                                                   |                                                       | 51341                                             | TH 16                                             | 51390                                                 | F 32                                              |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51328                                               |                                                                       |                              | V 15                                   | 51343                                             | TH 18                                             |                                                   |                                                   |                                                   | 51343                                             |                                                   | TH 18                                             | 51361                                             | H 16                                              |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51330                                               |                                                                       |                              | V 18                                   | 51344                                             | TH 20                                             |                                                   |                                                   |                                                   | 51344                                             |                                                   | TH 20                                             | 51363                                             | H 18                                              |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51331                                               |                                                                       |                              | V 22                                   | 51344                                             | TH 20                                             |                                                   |                                                   |                                                   | 51346                                             |                                                   | TH 26                                             | 51364                                             | H 20                                              |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51332                                               |                                                                       |                              | V 28                                   | 51347                                             | TH 32                                             |                                                   |                                                   |                                                   | 51349                                             |                                                   | THL 32                                            | 51366                                             | H 26                                              |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| AHSSELL<br>A -press rostfritt                       | 51321                                                                 |                              | M 15                                   | Business Key<br>MT-PRESS (inox)                   | 51321                                             | M 15                                              |                                                   |                                                   | COMISA Evo<br>Press System                        | 51341                                             | TH 16                                             | Egeda Comisa                                      | 51367                                             | H 32                                                  |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51322                                                                 |                              | M 18                                   |                                                   | 51322                                             | M 18                                              |                                                   |                                                   |                                                   | 51343                                             | TH 18                                             |                                                   | 51351                                             | U 16                                                  |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51323                                                                 |                              | M 22                                   |                                                   | 51323                                             | M 22                                              |                                                   |                                                   |                                                   | 51344                                             | TH 20                                             |                                                   | 51352                                             | U 18                                                  |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51324                                                                 |                              | M 28                                   |                                                   | 51324                                             | M 28                                              |                                                   |                                                   |                                                   | 51345                                             | TH 25                                             |                                                   | 51353                                             | U 20                                                  |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | AIRBEL<br>PRESSCLIM                                                   |                              | 51320                                  |                                                   | M 12                                              | CHIBRO<br>pressfitting                            |                                                   | 51325                                             |                                                   | M 35                                              | Comisa Evo Press<br>System Gas                    |                                                   | 51346                                             | TH 26                                                 | Egeda Baronio                                     | 51354                                             | U 25                                                  |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     |                                                                       | 51321                        | M 15                                   |                                                   | 51320                                             |                                                   | M 12                                              | 51347                                             |                                                   | TH 32                                             |                                                   |                                                   | 51357                                             | C 26                                                  |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     |                                                                       | 51322                        | M 18                                   |                                                   | 51321                                             |                                                   | M 15                                              | 51360                                             |                                                   | H 14                                              |                                                   |                                                   | 51355                                             | U 32                                                  |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     |                                                                       | 51323                        | M 22                                   |                                                   | 51322                                             |                                                   | M 18                                              | 51361                                             |                                                   | H 16                                              |                                                   |                                                   | 51392                                             | B 16                                                  |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     |                                                                       | 51324                        | M 28                                   |                                                   | 51323                                             |                                                   | M 22                                              | 51363                                             |                                                   | H 18                                              |                                                   |                                                   | 51393                                             | B 18                                                  |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     |                                                                       | AIRBEL SERTINOX              | 51320                                  |                                                   | M 12                                              |                                                   | CHIBRO<br>pressfitting GAS                        | 51324                                             |                                                   | M 28                                              |                                                   |                                                   | CONEL<br>CONNECT<br>MULTI                         | 51364                                                 |                                                   | H 20                                              | EUROTUBI<br>Europa C-STAH<br>L PRESSFITTING<br>SISTEM | 51394                                             | B 20                                              |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51321                                               |                                                                       |                              | M 15                                   | 51320                                             | M 12                                              |                                                   |                                                   | 51366                                             | H 26                                              | 51395                                             |                                                   | B 26                                              |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51322                                               |                                                                       |                              | M 18                                   | 51321                                             | M 15                                              |                                                   |                                                   | 51367                                             | H 32                                              | 51396                                             |                                                   | B 32                                              |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51323                                               |                                                                       |                              | M 22                                   | 51322                                             | M 18                                              |                                                   |                                                   | 51391                                             | B 14                                              | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM |                                                   | 51339                                             |                                                   | TH 14                                                 |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51324                                               |                                                                       |                              | M 28                                   | 51323                                             | M 22                                              |                                                   |                                                   | 51392                                             | B 16                                              |                                                   |                                                   | 51340                                             |                                                   | TH 15                                                 |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| ALB Sistema<br>Multicapa                            | 51341                                                                 |                              | TH 16                                  | Chronimo<br>SANHA-Niro-<br>SanPresssystem         | 51324                                             | M 28                                              |                                                   | Danfoss SpeedUp<br>FH Composite AL                | 51386                                             |                                                   | F 16                                              | FAR Rubinetterie<br>PRESSFAR                      |                                                   | 51341                                                 | TH 16                                             |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51343                                                                 |                              | TH 18                                  |                                                   | 51325                                             | M 35                                              |                                                   |                                                   | 51388                                             |                                                   | F 20                                              |                                                   |                                                   | 51342                                                 | TH 17                                             |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51344                                                                 |                              | TH 20                                  |                                                   | 51327                                             | V 14                                              |                                                   |                                                   | 51389                                             |                                                   | F 26                                              |                                                   |                                                   | 51344                                                 | TH 20                                             |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51346                                                                 |                              | TH 26                                  |                                                   | 51328                                             | V 15                                              |                                                   |                                                   | 51390                                             |                                                   | F 32                                              |                                                   |                                                   | 51345                                                 | TH 25                                             |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51347                                                                 |                              | TH 32                                  |                                                   | 51329                                             | V 16                                              |                                                   |                                                   | 51391                                             |                                                   | F 36                                              |                                                   |                                                   | EUROTUBI<br>Europa C-STAH<br>L PRESSFITTING<br>SISTEM | 51320                                             | M 12                                              |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | APE Raccordi a<br>pressione                                           | 51361                        | H 16                                   |                                                   | CIMBERIO SpA<br>Cimpress                          | 51330                                             | M 15                                              |                                                   | Dalpex Laser<br>Multi Dalpex                      |                                                   | 51392                                             |                                                   | B 16                                              |                                                       | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51321                                             | M 15                                                  |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     |                                                                       | 51363                        | H 18                                   |                                                   |                                                   | 51331                                             | M 18                                              |                                                   |                                                   |                                                   | 51393                                             |                                                   | B 18                                              |                                                       |                                                   | 51322                                             | M 18                                                  |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     |                                                                       | 51364                        | H 20                                   |                                                   |                                                   | 51332                                             | M 22                                              |                                                   |                                                   |                                                   | 51394                                             |                                                   | B 20                                              |                                                       |                                                   | 51323                                             | M 22                                                  |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     |                                                                       | 51366                        | H 26                                   |                                                   |                                                   | 51333                                             | M 28                                              |                                                   |                                                   | 51395                                             | B 26                                              |                                                   | 51324                                             |                                                       |                                                   | M 28                                              |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     |                                                                       | 51367                        | H 32                                   |                                                   |                                                   | 51334                                             | M 35                                              |                                                   |                                                   | 51396                                             | B 32                                              |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM |                                                       |                                                   | 51321                                             | M 15                                                  |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51351                                               |                                                                       | U 16                         | 51335                                  | V 12                                              |                                                   | Danfoss Basic<br>FH Composite AL                  | 51399                                             | B 18                                              |                                                   | 51322                                             | M 18                                              |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51352                                               |                                                                       | U 18                         | 51336                                  | VG 14                                             |                                                   |                                                   | CONEL<br>CONNECT<br>MULTI                         | 51392                                             |                                                   | B 16                                              | 51323                                             | M 22                                              |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51353                                               |                                                                       | U 20                         | 51337                                  | V 15                                              |                                                   |                                                   |                                                   | 51341                                             |                                                   | TH 16                                             | 51324                                             | M 28                                              |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51355                                               |                                                                       | C 26                         | 51338                                  | V 16                                              |                                                   |                                                   |                                                   | 51343                                             |                                                   | TH 18                                             | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51321                                             |                                                   |                                                       |                                                   | M 15                                              |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51357                                               |                                                                       | U 32                         | 51339                                  | VG 16                                             |                                                   |                                                   |                                                   | 51344                                             |                                                   | TH 20                                             |                                                   | 51322                                             |                                                   | M 18                                                  |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| AP-Presssystem                                      | 51359                                                                 | TH 14                        | CIMBERIO SpA<br>Cimpress               | 51340                                             | SA 15                                             |                                                   |                                                   | Danfoss Laser<br>Multi Dalpex                     | 51346                                             | TH 26                                             |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM |                                                   | 51323                                                 | M 22                                              |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51341                                                                 | TH 16                        |                                        | 51408                                             | SA 18                                             |                                                   |                                                   |                                                   | Dapex Laser<br>Multi Dalpex                       | 51347                                             |                                                   |                                                   |                                                   | TH 32                                                 | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51344                                             | TH 20                                                 |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51343                                                                 | TH 18                        |                                        | 51410                                             | SA 18                                             |                                                   |                                                   |                                                   |                                                   | 51386                                             |                                                   |                                                   |                                                   | F 16                                                  |                                                   | 51345                                             | TH 25                                                 |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51344                                                                 | TH 20                        |                                        | 51411                                             | SA 22                                             |                                                   |                                                   |                                                   |                                                   | 51388                                             |                                                   |                                                   |                                                   | F 20                                                  |                                                   | 51346                                             | TH 26                                                 |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51346                                                                 | TH 26                        |                                        | 51412                                             | SA 28                                             |                                                   |                                                   |                                                   |                                                   | 51389                                             |                                                   |                                                   | F 26                                              | 51347                                                 |                                                   | TH 32                                             |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51347                                                                 | TH 32                        |                                        | 51411                                             | SA 22                                             | 51390                                             |                                                   |                                                   |                                                   | F 32                                              |                                                   |                                                   | 51348                                             | TH 40                                                 |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | ASTM F 1807<br>(Fittings with Copper<br>Crimp Ring for PEX<br>tubing) | 51417                        |                                        | US 3/8"                                           | CIMBERIO SpA<br>Cimpress                          | 51412                                             | SA 28                                             |                                                   |                                                   | Dapex Laser<br>Multi Dalpex                       |                                                   |                                                   | 51391                                             | B 14                                                  |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51349                                                 | TH 32                                             |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     |                                                                       | 51418                        |                                        | US 1/2"                                           |                                                   | 51411                                             | SA 22                                             |                                                   |                                                   |                                                   |                                                   |                                                   | 51392                                             | B 16                                                  |                                                   |                                                   | 51350                                                 | U 16                                              |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     |                                                                       | 51419                        |                                        | US 3/4"                                           |                                                   | 51412                                             | SA 28                                             |                                                   |                                                   |                                                   | 51393                                             |                                                   | B 18                                              | 51353                                                 |                                                   |                                                   | U 20                                                  |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     |                                                                       | 51420                        |                                        | US 1"                                             |                                                   | 51413                                             | M 15                                              |                                                   |                                                   |                                                   | 51394                                             |                                                   | B 20                                              | 51355                                                 |                                                   |                                                   | U 32                                                  |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51339                                               |                                                                       | TH 14                        | 51414                                  | M 18                                              |                                                   | 51395                                             | B 26                                              | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM |                                                   |                                                   | 51339                                             | TH 14                                             |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51341                                               |                                                                       | TH 16                        | 51415                                  | M 22                                              |                                                   | 51396                                             | B 32                                              |                                                   | 51341                                             |                                                   | TH 16                                             |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51343                                               |                                                                       | TH 18                        | 51416                                  | M 28                                              |                                                   | Dapex Laser<br>Multi Dalpex                       | 51386                                             |                                                   | F 16                                              |                                                   | 51342                                             | TH 17                                             |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51344                                               |                                                                       | TH 20                        | 51417                                  | M 35                                              |                                                   |                                                   | 51388                                             |                                                   | F 20                                              |                                                   | 51344                                             | TH 20                                             |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51346                                               |                                                                       | TH 26                        | 51418                                  | M 35                                              |                                                   |                                                   | 51389                                             |                                                   | F 26                                              |                                                   | 51345                                             | TH 25                                             |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51347                                               |                                                                       | TH 32                        | 51419                                  | M 35                                              |                                                   |                                                   | 51390                                             |                                                   | F 32                                              |                                                   | 51346                                             | TH 26                                             |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51348                                               | TH 40                                                                 | 51420                        | M 35                                   | 51391                                             | F 36                                              |                                                   | 51347                                             |                                                   | TH 32                                             |                                                   |                                                   |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| BARBI EASYPRESS<br>(Industrial Blansol)             | 51401                                                                 | RFz 12                       | CIMBERIO SpA<br>Cimpress Gas           | 51324                                             | M 28                                              |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM |                                                   | 51392                                             | B 16                                              | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51348                                             | TH 40                                             |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51402                                                                 | RFz 16                       |                                        | 51325                                             | M 35                                              |                                                   |                                                   |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51393                                             |                                                   | B 18                                              | 51349                                             | TH 32                                                 |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51403                                                                 | RFz 20                       |                                        | 51326                                             | M 35                                              |                                                   |                                                   |                                                   |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM |                                                   | 51394                                             | B 20                                              | 51350                                                 | U 16                                              |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51404                                                                 | RFz 25                       |                                        | 51327                                             | V 14                                              |                                                   |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM |                                                   |                                                   |                                                   | 51395                                             | B 26                                              | 51353                                                 | U 20                                              |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51405                                                                 | RFz 32                       |                                        | 51328                                             | V 15                                              |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51396                                             | B 32                                                  | 51355                                             | U 32                                              |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51361                                                                 | H 16                         |                                        | 51329                                             | V 16                                              | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   | 51399                                             | B 18                                                  | 51344                                             | TH 20                                             |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51363                                                                 | H 18                         |                                        | 51330                                             | V 18                                              |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51399                                                 | B 20                                              | 51345                                             | TH 25                                                 |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51364                                                                 | H 20                         |                                        | 51331                                             | V 22                                              |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM     | 51399                                             | B 26                                              | 51346                                                 | TH 26                                             |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51366                                                                 | H 26                         |                                        | 51332                                             | V 28                                              |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                       | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51399                                             | B 26                                                  | 51347                                             | TH 32                                             |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51367                                                                 | H 32                         |                                        | 51333                                             | V 35                                              |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                       |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51399                                                 | B 26                                              | 51348                                             | TH 40                                             |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| BARBI MULTIPEX<br>(Industrial Blansol)              | 51401                                                                 | RFz 12                       | CIMBERIO SpA<br>Cimpress Gas           | 51408                                             | SA 15                                             |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM |                                                   |                                                   |                                                   | 51399                                             |                                                   |                                                   |                                                       |                                                   |                                                   | B 26                                                  | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51360                                             | H 14                                              |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51402                                                                 | RFz 16                       |                                        | 51410                                             | SA 18                                             |                                                   |                                                   |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM |                                                   | 51399                                             |                                                   |                                                   |                                                       |                                                   |                                                   | B 26                                                  |                                                   | 51361                                             | H 16                                              |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51403                                                                 | RFz 20                       |                                        | 51411                                             | SA 22                                             |                                                   |                                                   |                                                   |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51399                                             |                                                   |                                                   |                                                       |                                                   |                                                   | B 26                                                  |                                                   | 51363                                             | H 18                                              |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51404                                                                 | RFz 25                       |                                        | 51412                                             | SA 28                                             |                                                   |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM |                                                   |                                                   | 51399                                             |                                                   |                                                   |                                                       |                                                   |                                                   | B 26                                                  |                                                   | 51364                                             | H 20                                              |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51405                                                                 | RFz 32                       |                                        | 51413                                             | M 15                                              |                                                   |                                                   |                                                   |                                                   |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51399                                             |                                                   |                                                       |                                                   |                                                   | B 26                                                  |                                                   | 51366                                             | H 26                                              |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51361                                                                 | H 16                         |                                        | 51414                                             | M 18                                              | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM |                                                   |                                                   |                                                   |                                                   |                                                   | 51399                                             |                                                   |                                                       |                                                   |                                                   | B 26                                                  |                                                   | 51367                                             | H 32                                              |                                                   |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51363                                                                 | H 18                         |                                        | 51415                                             | M 22                                              |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51399                                             |                                                       |                                                   |                                                   | B 26                                                  |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51367                                             | H 32                                              |                                                   |                                                   |                                                   |                                                   |       |
|                                                     | 51364                                                                 | H 20                         |                                        | 51416                                             | M 28                                              |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51399                                                 |                                                   |                                                   | B 26                                                  |                                                   |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51367                                             | H 32                                              |                                                   |                                                   |                                                   |       |
|                                                     | 51366                                                                 | H 26                         |                                        | 51417                                             | M 35                                              |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM     | 51399                                             |                                                   | B 26                                                  |                                                   |                                                   |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51367                                             | H 32                                              |                                                   |                                                   |       |
|                                                     | 51367                                                                 | H 32                         |                                        | 51418                                             | M 35                                              |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                       | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51399                                             | B 26                                                  |                                                   |                                                   |                                                   |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51367                                             | H 32                                              |                                                   |       |
| 51401                                               | RFz 12                                                                | 51419                        | M 35                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51399                                             |                                                   | B 26                                              |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                       |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51367                                                 | H 32                                              |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |
| 51402                                               | RFz 16                                                                | 51420                        | M 35                                   |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM |                                                   | 51399                                             |                                                   | B 26                                              |                                                   |                                                   |                                                   |                                                   |                                                       |                                                   |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM     | 51367                                             |                                                   |                                                   |                                                   |                                                   | H 32                                              |                                                   |                                                   |       |
| 51403                                               | RFz 20                                                                | CIMBERIO SpA<br>Cimpress Gas | 51324                                  |                                                   |                                                   |                                                   | M 28                                              |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51399                                             |                                                   |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       | B 26                                              |                                                   |                                                   |                                                   |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51367                                             | H 32                                              |       |
| 51404                                               | RFz 25                                                                |                              | 51325                                  |                                                   |                                                   |                                                   | M 35                                              | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM |                                                   | 51399                                             |                                                   |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       | B 26                                              |                                                   |                                                   |                                                   |                                                   |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51367                                             | H 32  |
| 51405                                               | RFz 32                                                                |                              | 51326                                  |                                                   |                                                   |                                                   | M 35                                              |                                                   |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51399                                             |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       | B 26                                              |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   | EUROTUBI<br>Europa INOX<br>PRESSFITTING<br>SISTEM | 51367 |
| 51361                                               | H 16                                                                  |                              | 51327                                  |                                                   |                                                   | V 14                                              | EU                                                |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                       |                                                   |                                                   |                                                       |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |       |

| SYSTEM                               | COD.  | TYPE   | SYSTEM                     | COD.       | TYPE  | SYSTEM                                                | COD.                  | TYPE   | SYSTEM      | COD.   | TYPE  |       |  |
|--------------------------------------|-------|--------|----------------------------|------------|-------|-------------------------------------------------------|-----------------------|--------|-------------|--------|-------|-------|--|
| FAR Rubinetterie PRESSFAR            | 51350 | U 14   | FRABO                      | 51328      | V 15  | General Fittings Serie 5500                           | 51367                 | H 32   | HakaGerodur | 51341  | TH 16 |       |  |
|                                      | 51351 | U 16   | FRABOPRESS                 | 51330      | V 18  |                                                       | 51351                 | U 16   | HAKASAN     | 51344  | TH 20 |       |  |
|                                      | 51352 | U 18   | C-STEEL                    | 51331      | V 22  |                                                       | 51352                 | U 18   |             | 51346  | TH 26 |       |  |
|                                      | 51353 | U 20   |                            | 51332      | V 28  |                                                       | 51353                 | U 20   |             | 51347  | TH 32 |       |  |
|                                      | 51354 | U 25   |                            | FRABO      | 51328 |                                                       | V 15                  | 51355  | U 32        |        | 51339 | TH 14 |  |
|                                      | 51355 | U 32   |                            | FRABOPRESS | 51330 |                                                       | V 18                  | 51356  | U 40        |        | 51341 | TH 16 |  |
| F.B.Q. BARONIO BQ press              | 51356 | U 40   | C-STEEL GAS                | 51331      | V 22  |                                                       |                       |        | 51342       | TH 17  |       |       |  |
|                                      | 51326 | V 12   |                            | 51332      | V 28  |                                                       |                       |        | 51343       | TH 18  |       |       |  |
|                                      | 51327 | V 14   |                            |            |       |                                                       |                       |        | 51344       | TH 20  |       |       |  |
|                                      | 51328 | V 15   | FRABO                      | 51341      | TH 16 |                                                       |                       |        | 51346       | TH 26  |       |       |  |
|                                      | 51329 | V 16   | FRABOPRESS                 | 51344      | TH 20 |                                                       |                       |        | 51349       | THL 32 |       |       |  |
|                                      | 51330 | V 18   | MULTI-BRASS (MB)           | 51346      | TH 26 |                                                       |                       |        | 51348       | TH 40  |       |       |  |
| F.B.Q. BARONIO BQ press carbon steel | 51331 | V 18   |                            | 51347      | TH 32 | Giacomini RP Multistrato                              | 51344                 | TH 20  |             |        |       |       |  |
|                                      | 51332 | V 22   |                            | 51351      | U 16  |                                                       |                       | 51346  | TH 26       |        |       |       |  |
|                                      | 51328 | V 15   |                            | 51353      | U 20  |                                                       |                       | 51349  | THL 32      |        |       |       |  |
|                                      | 51330 | V 18   | FRABO                      | 51361      | H 16  |                                                       |                       |        |             |        |       |       |  |
|                                      | 51331 | V 22   | FRABOPRESS                 | 51364      | H 20  |                                                       |                       |        |             |        |       |       |  |
|                                      | 51332 | V 28   | MULTI-PLUS (MP)            | 51351      | U 16  |                                                       |                       |        |             |        |       |       |  |
| F.B.Q. BARONIO BQ press Gas          | 51328 | V 15   |                            | 51353      | U 20  | Giacomini GIACOFLEX                                   | 51339                 | TH 14  |             |        |       |       |  |
|                                      | 51329 | V 16   |                            |            |       |                                                       |                       | 51341  | TH 16       |        |       |       |  |
|                                      | 51330 | V 18   | FRABO                      | 51328      | V 15  |                                                       |                       | 51342  | TH 17       |        |       |       |  |
|                                      | 51331 | V 22   | SOLARPRESS                 | 51330      | V 18  |                                                       |                       | 51343  | TH 18       |        |       |       |  |
|                                      | 51332 | V 28   |                            | 51331      | V 22  |                                                       |                       | 51344  | TH 20       |        |       |       |  |
|                                      |       |        |                            | 51332      | V 28  |                                                       |                       | 51346  | TH 26       |        |       |       |  |
| FELSINEA TECH Felseinapress          | 51339 | TH 14  |                            | 51386      | F 16  | Giacomini GIACOTHERM                                  | 51339                 | TH 14  |             |        |       |       |  |
|                                      | 51341 | TH 16  | Fränkische alpex-duo       | 51387      | F 18  |                                                       |                       | 51341  | TH 16       |        |       |       |  |
|                                      | 51343 | TH 18  |                            | 51388      | F 20  |                                                       |                       | 51342  | TH 17       |        |       |       |  |
|                                      | 51344 | TH 20  |                            | 51389      | F 26  |                                                       |                       | 51343  | TH 18       |        |       |       |  |
|                                      | 51346 | TH 26  |                            | 51390      | F 32  |                                                       |                       | 51344  | TH 20       |        |       |       |  |
|                                      | 51347 | TH 32  |                            |            | 51386 |                                                       | F 16                  |        | 51346       | TH 26  |       |       |  |
| Fercofloor DUO Press FERCO PEX       | 51402 | RfZ 16 |                            | 51388      | F 20  | Giacomini R851VT/ R850VW                              | 51349                 | THL 32 |             |        |       |       |  |
|                                      | 51403 | RfZ 20 |                            | 51389      | F 26  |                                                       |                       |        |             |        |       |       |  |
|                                      | 51404 | RfZ 25 |                            | 51390      | F 32  |                                                       |                       |        |             |        |       |       |  |
|                                      | 51405 | RfZ 32 |                            |            | 51361 |                                                       | H 16                  |        |             |        |       |       |  |
|                                      | 51402 | RfZ 16 |                            | 51364      | H 20  |                                                       |                       |        |             |        |       |       |  |
|                                      | 51403 | RfZ 20 |                            | 51366      | H 26  |                                                       |                       |        |             |        |       |       |  |
| Fercofloor DUO Press MULTIFER        | 51404 | RfZ 25 | Fränkische alpex F50 PROFI | 51367      | H 32  | Gibaco fittings COPPER C6000/B8000                    | 51408                 | SA 15  |             |        |       |       |  |
|                                      | 51405 | RfZ 32 |                            | 51341      | TH 16 |                                                       |                       | 51410  | SA 18       |        |       |       |  |
|                                      | 51351 | U 16   |                            | 51344      | TH 20 |                                                       |                       | 51411  | SA 22       |        |       |       |  |
|                                      | 51352 | U 18   |                            | 51346      | TH 26 |                                                       |                       | 51412  | SA 28       |        |       |       |  |
|                                      | 51353 | U 20   |                            | 51347      | TH 32 |                                                       |                       | 51321  | M 15        |        |       |       |  |
|                                      | 51354 | U 25   |                            | 51351      | U 16  |                                                       |                       | 51322  | M 18        |        |       |       |  |
| FILTUBE Instalpress Carbon Steel     | 51355 | U 32   |                            | 51353      | U 20  | Gibaco fittings G-Flex-Press 5900                     | 51323                 | M 22   |             |        |       |       |  |
|                                      | 51321 | M 15   |                            | 51354      | U 25  |                                                       |                       | 51324  | M 28        |        |       |       |  |
|                                      | 51322 | M 18   |                            | 51355      | U 32  |                                                       |                       |        |             |        |       |       |  |
|                                      | 51323 | M 22   |                            |            | 51388 |                                                       | F 20                  |        |             |        |       |       |  |
|                                      | 51324 | M 28   |                            |            | 51389 |                                                       | F 26                  |        |             |        |       |       |  |
|                                      | 51325 | M 35   |                            |            | 51390 |                                                       | F 32                  |        |             |        |       |       |  |
| FILTUBE Instalpress Copper           | 51321 | M 15   | FRIATHERM uni              | 51361      | H 16  | Gibaco fittings PRESS-INOX 2200                       | 51321                 | M 15   |             |        |       |       |  |
|                                      | 51322 | M 18   |                            | 51364      | H 20  |                                                       |                       | 51322  | M 18        |        |       |       |  |
|                                      | 51323 | M 22   |                            | 51366      | H 26  |                                                       |                       | 51323  | M 22        |        |       |       |  |
|                                      | 51324 | M 28   |                            | 51367      | H 32  |                                                       |                       | 51324  | M 28        |        |       |       |  |
|                                      | 51325 | M 35   |                            |            | 51336 |                                                       | TH 10                 |        | 51320       | M 12   |       |       |  |
|                                      |       |        |                            |            | 51338 |                                                       | TH 12                 |        | 51321       | M 15   |       |       |  |
| FILTUBE Instalpress Inox             | 51321 | M 15   |                            | 51339      | TH 14 | Gibaco fittings PRESS-STEEL 2300                      | 51322                 | M 18   |             |        |       |       |  |
|                                      | 51322 | M 18   |                            | 51340      | TH 15 |                                                       |                       | 51323  | M 22        |        |       |       |  |
|                                      | 51323 | M 22   |                            | 51341      | TH 16 |                                                       |                       | 51324  | M 28        |        |       |       |  |
|                                      | 51324 | M 28   |                            | 51342      | TH 17 |                                                       |                       |        |             |        |       |       |  |
|                                      | 51325 | M 35   |                            | 51343      | TH 18 |                                                       |                       |        |             |        |       |       |  |
|                                      |       |        |                            | 51344      | TH 20 |                                                       |                       |        |             |        |       |       |  |
| Fimisol HAKAPRESS                    | 51321 | M 15   | Gabo Systemtechnik         | 51345      | TH 25 | Ginde Press Fitting for Ginde Multi-layer Pipe System | 51351                 | U 16   |             |        |       |       |  |
|                                      | 51322 | M 18   |                            | 51346      | TH 26 |                                                       |                       | 51353  | U 20        |        |       |       |  |
|                                      | 51323 | M 22   |                            | 51347      | TH 32 |                                                       |                       | 51354  | U 25        |        |       |       |  |
|                                      | 51324 | M 28   |                            |            | 51320 |                                                       | M 12                  |        | 51355       | U 32   |       |       |  |
|                                      | 51325 | M 35   |                            |            | 51321 |                                                       | M 15                  |        | 51341       | TH 16  |       |       |  |
|                                      |       |        |                            |            | 51322 |                                                       | M 18                  |        | 51343       | TH 18  |       |       |  |
| Fittings Estándar ECO-PRESS          | 51402 | RfZ 16 |                            | 51323      | M 22  | Global Plastic Rothapress                             | 51344                 | TH 20  |             |        |       |       |  |
|                                      | 51403 | RfZ 20 |                            | 51324      | M 28  |                                                       |                       | 51345  | TH 25       |        |       |       |  |
|                                      | 51404 | RfZ 25 |                            | 51325      | M 35  |                                                       |                       | 51347  | TH 32       |        |       |       |  |
|                                      | 51405 | RfZ 32 |                            |            | 51321 |                                                       | M 15                  |        | 51348       | TH 40  |       |       |  |
|                                      | 51351 | U 16   |                            |            | 51322 |                                                       | M 18                  |        |             |        |       |       |  |
|                                      | 51352 | U 18   |                            |            | 51323 |                                                       | M 22                  |        |             |        |       |       |  |
| Fittings Estándar MULTICAPA          | 51353 | U 20   |                            | 51324      | M 28  | GLOBAL TRADE Aqualpress system                        | 51351                 | U 16   |             |        |       |       |  |
|                                      | 51354 | U 25   |                            | 51325      | M 35  |                                                       |                       | 51353  | U 20        |        |       |       |  |
|                                      | 51355 | U 32   |                            |            | 51320 |                                                       | M 12                  |        | 51354       | U 25   |       |       |  |
|                                      | 51402 | RfZ 16 |                            |            | 51321 |                                                       | M 15                  |        | 51355       | U 32   |       |       |  |
|                                      | 51403 | RfZ 20 |                            |            | 51322 |                                                       | M 18                  |        |             |        |       |       |  |
|                                      | 51404 | RfZ 25 |                            |            | 51323 |                                                       | M 22                  |        |             |        |       |       |  |
| Fittings Estándar PE-X               | 51405 | RfZ 32 |                            | 51324      | M 28  | Golan Pipe Systems (Scandinavia) Alu-Press            | 51351                 | U 16   |             |        |       |       |  |
|                                      | 51351 | U 16   |                            | 51325      | M 35  |                                                       |                       | 51353  | U 20        |        |       |       |  |
|                                      | 51353 | U 20   |                            |            | 51320 |                                                       | M 12                  |        | 51354       | U 25   |       |       |  |
|                                      | 51354 | U 25   |                            |            | 51321 |                                                       | M 15                  |        | 51355       | U 32   |       |       |  |
|                                      | 51355 | U 32   |                            |            | 51322 |                                                       | M 18                  |        |             |        |       |       |  |
|                                      |       |        |                            |            | 51323 |                                                       | M 22                  |        |             |        |       |       |  |
| FOHS HEIZTECHNIK FOHSPRESS           | 51361 | H 16   |                            | 51324      | M 28  | GS Wärmesysteme System TH                             | 51346                 | TH 26  |             |        |       |       |  |
|                                      | 51364 | H 20   |                            |            | 51325 |                                                       | M 35                  |        | 51347       | TH 32  |       |       |  |
|                                      | 51366 | H 26   |                            |            | 51320 |                                                       | M 12                  |        |             |        |       |       |  |
|                                      | 51367 | H 32   |                            |            | 51321 |                                                       | M 15                  |        |             |        |       |       |  |
|                                      | 51341 | TH 16  |                            |            | 51322 |                                                       | M 18                  |        |             |        |       |       |  |
|                                      | 51344 | TH 20  |                            |            | 51323 |                                                       | M 22                  |        |             |        |       |       |  |
| FRABO FRABOPRESS RAME (Cu)           | 51346 | TH 26  |                            | 51324      | M 28  | GS Wärmesysteme System V                              | 51331                 | V 22   |             |        |       |       |  |
|                                      | 51347 | TH 32  |                            |            | 51325 |                                                       | M 35                  |        | 51332       | V 28   |       |       |  |
|                                      | 51349 | THL 32 |                            |            | 51320 |                                                       | M 12                  |        | 51333       | V 35   |       |       |  |
|                                      | 51351 | U 16   |                            |            | 51321 |                                                       | M 15                  |        |             |        |       |       |  |
|                                      | 51353 | U 20   |                            |            | 51322 |                                                       | M 18                  |        |             |        |       |       |  |
|                                      | 51355 | U 32   |                            |            | 51323 |                                                       | M 22                  |        |             |        |       |       |  |
| FRABO FRABOPRESS INOX 316            | 51326 | V 12   |                            | 51324      | M 28  | GSP Group USMatrix                                    | 51341                 | TH 16  |             |        |       |       |  |
|                                      | 51328 | V 15   |                            |            | 51320 |                                                       | M 12                  |        | 51344       | TH 20  |       |       |  |
|                                      | 51330 | V 18   |                            |            | 51321 |                                                       | M 15                  |        | 51341       | TH 16  |       |       |  |
|                                      | 51331 | V 22   |                            |            | 51322 |                                                       | M 18                  |        | 51358       | H 11,5 |       |       |  |
|                                      | 51332 | V 28   |                            |            | 51323 |                                                       | M 22                  |        | 51360       | H 14   |       |       |  |
|                                      | 51326 | V 12   |                            |            | 51324 |                                                       | M 28                  |        | 51361       | H 16   |       |       |  |
| FRABO FRABOPRESS INOX 316            | 51328 | V 15   |                            |            | 51325 | M 35                                                  | HakaGerodur HAKAPRESS | 51362  | H 17        |        |       |       |  |
|                                      | 51330 | V 18   |                            |            | 51320 | M 12                                                  |                       |        | 51363       | H 18   |       |       |  |
|                                      | 51331 | V 22   |                            |            | 51321 | M 15                                                  |                       |        | 51364       | H 20   |       |       |  |
|                                      | 51332 | V 28   |                            |            | 51322 | M 18                                                  |                       |        | 51366       | H 26   |       |       |  |
|                                      | 51326 | V 12   |                            |            | 51323 | M 22                                                  |                       |        | 51367       | H 32   |       |       |  |
|                                      | 51328 | V 15   |                            |            | 51324 | M 28                                                  |                       |        |             |        |       |       |  |

| SYSTEM                                          | COD.            | TYPE     |       |
|-------------------------------------------------|-----------------|----------|-------|
| IDROSISTEMI Ta-Press                            | 51346           | TH 26    |       |
|                                                 | 51347           | TH 32    |       |
|                                                 | 51386           | F 16     |       |
|                                                 | 51388           | F 20     |       |
|                                                 | 51389           | F 26     |       |
|                                                 | 51390           | F 32     |       |
|                                                 | 51361           | H 16     |       |
|                                                 | 51364           | H 20     |       |
|                                                 | 51366           | H 26     |       |
|                                                 | 51367           | H 32     |       |
|                                                 | 51351           | U 16     |       |
|                                                 | 51353           | U 20     |       |
|                                                 | 51355           | U 32     |       |
|                                                 | 51392           | B 16     |       |
|                                                 | 51394           | B 20     |       |
|                                                 | 51395           | B 26     |       |
|                                                 | 51396           | B 32     |       |
|                                                 | IPA IPANA-Press | 51336    | TH 10 |
| 51337                                           |                 | TH 11,6  |       |
| 51338                                           |                 | TH 12    |       |
| 51339                                           |                 | TH 14    |       |
| 51340                                           |                 | TH 15    |       |
| 51341                                           |                 | TH 16    |       |
| 51342                                           |                 | TH 17    |       |
| 51343                                           |                 | TH 18    |       |
| 51344                                           |                 | TH 20    |       |
| 51345                                           |                 | TH 25    |       |
| 51346                                           |                 | TH 26    |       |
| 51349                                           |                 | TH 28    |       |
| 51347                                           |                 | TH 32    |       |
| 51348                                           | TH 40           |          |       |
| IPALPEX (Industrie du Plastique et Accessoires) | 51339           | TH 14    |       |
|                                                 | 51341           | TH 16    |       |
|                                                 | 51343           | TH 18    |       |
|                                                 | 51344           | TH 20    |       |
| 51346                                           | TH 26           |          |       |
| 51349                                           | THL 32          |          |       |
| IPELEX PIPELINES AUSTRALIA Iplex Pro-fit        | 51440           | K 16/P18 |       |
|                                                 | 51441           | K 20     |       |
| IPELEX PIPELINES AUSTRALIA Iplex K1 (Gas)       | 51442           | K/25     |       |
|                                                 | 51443           | K1/32    |       |
| IPELEX PIPELINES AUSTRALIA Iplex K2             | 51444           | K1/40    |       |
|                                                 | 51440           | K 16/P18 |       |
| ISOTUBI NUMEPRESS                               | 51411           | K/20     |       |
|                                                 | 51442           | K/25     |       |
|                                                 | 51321           | M 15     |       |
|                                                 | 51322           | M 18     |       |
|                                                 | 51323           | M 22     |       |
|                                                 | 51324           | M 28     |       |
| IVAR ALPEX-GAS                                  | 51325           | M 35     |       |
|                                                 | 51394           | B 20     |       |
|                                                 | 51395           | B 26     |       |
| IVAR MULTIPRESS                                 | 51396           | B 32     |       |
|                                                 | 51341           | TH 16    |       |
|                                                 | 51343           | TH 18    |       |
|                                                 | 51344           | TH 20    |       |
|                                                 | 51346           | TH 26    |       |
|                                                 | 51347           | TH 32    |       |
|                                                 | 51386           | F 16     |       |
|                                                 | 51387           | F 18     |       |
|                                                 | 51388           | F 20     |       |
|                                                 | 51389           | F 26     |       |
|                                                 | 51390           | F 32     |       |
|                                                 | 51361           | H 16     |       |
|                                                 | 51363           | H 18     |       |
|                                                 | 51364           | H 20     |       |
|                                                 | 51366           | H 26     |       |
|                                                 | 51367           | H 32     |       |
|                                                 | IVAR IVAR-PRESS | 51351    | U 16  |
|                                                 |                 | 51352    | U 18  |
| 51353                                           |                 | U 20     |       |
| 51354                                           |                 | U 25     |       |
| 51357                                           |                 | C 26     |       |
| 51355                                           |                 | U 32     |       |
| 51392                                           |                 | B 16     |       |
| 51393                                           |                 | B 18     |       |
| 51394                                           |                 | B 20     |       |
| 51395                                           |                 | B 26     |       |
| 51396                                           |                 | B 32     |       |
| Jäger aquapress H                               |                 | 51391    | B 14  |
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|                                                 | 51393           | B 18     |       |
|                                                 | 51394           | B 20     |       |
|                                                 | 51395           | B 26     |       |
|                                                 | 51396           | B 32     |       |
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|                                                 | 51363           | H 18     |       |
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|                                                 | 51367           | H 32     |       |
|                                                 | 51356           | U 40     |       |
| Jaraflex-Presssystem                            | 51321           | M 15     |       |
|                                                 | 51322           | M 18     |       |
|                                                 | 51323           | M 22     |       |
|                                                 | 51324           | M 28     |       |
|                                                 | 51325           | M 35     |       |
|                                                 | 51339           | TH 14    |       |
| LECHAR ALCOBRAPEX                               | 51341           | TH 16    |       |
|                                                 | 51343           | TH 18    |       |
|                                                 | 51344           | TH 20    |       |
|                                                 | 51346           | TH 26    |       |
|                                                 | 51347           | TH 32    |       |
| LECHAR COBRAPEX                                 | 51348           | TH 40    |       |
|                                                 | 51351           | U 16     |       |
|                                                 | 51353           | U 20     |       |
|                                                 | 51354           | U 25     |       |
|                                                 | 51355           | U 32     |       |

| SYSTEM                       | COD.  | TYPE  |
|------------------------------|-------|-------|
| JUPITER Heizsysteme          | 51351 | U 16  |
|                              | 51353 | U 20  |
|                              | 51354 | U 25  |
|                              | 51355 | U 32  |
|                              | 51351 | U 16  |
| KAN KAN-therm                | 51353 | U 20  |
|                              | 51354 | U 25  |
|                              | 51357 | C 26  |
|                              | 51355 | U 32  |
|                              | 51356 | U 40  |
| KAN KAN-therm LBP            | 51351 | U 16  |
|                              | 51353 | U 20  |
|                              | 51354 | U 25  |
|                              | 51357 | C 26  |
|                              | 51355 | U 32  |
| KAN KAN-therm Inox           | 51356 | U 40  |
|                              | 51321 | M 15  |
|                              | 51322 | M 18  |
|                              | 51323 | M 22  |
|                              | 51324 | M 28  |
| KAN KAN-therm Steel          | 51321 | M 15  |
|                              | 51322 | M 18  |
|                              | 51323 | M 22  |
|                              | 51324 | M 28  |
|                              | 51351 | U 16  |
| KE KELIT KELIT KELOX         | 51352 | U 18  |
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|                              | 51354 | U 25  |
|                              | 51355 | U 32  |
|                              | 51356 | U 40  |
| KE KELIT steelfIX Edelstahl  | 51321 | M 15  |
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|                              | 51323 | M 22  |
|                              | 51324 | M 28  |
|                              | 51325 | M 35  |
| KISAN Kisan Development (KD) | 51321 | M 15  |
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|                              | 51323 | M 22  |
|                              | 51324 | M 28  |
|                              | 51325 | M 35  |
| KISAN Kisan WL               | 51413 | KI 16 |
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|                              | 51415 | KI 25 |
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| KISAN Kistan Inox            | 51323 | M 22  |
|                              | 51324 | M 28  |
|                              | 51321 | M 15  |
|                              | 51322 | M 18  |
|                              | 51323 | M 22  |
| KME Q-tec                    | 51324 | M 28  |
|                              | 51339 | TH 14 |
|                              | 51341 | TH 16 |
|                              | 51344 | TH 20 |
|                              | 51346 | TH 26 |
| KLIMAT Effetto Radiante      | 51341 | TH 16 |
|                              | 51344 | TH 20 |
|                              | 51346 | TH 26 |
|                              | 51347 | TH 32 |
|                              | 51341 | TH 16 |
| Largo-Presssystem            | 51344 | TH 20 |
|                              | 51346 | TH 26 |
|                              | 51347 | TH 32 |
|                              | 51341 | TH 16 |
|                              | 51344 | TH 20 |
| LECHAR ALCOBRAPEX            | 51346 | TH 26 |
|                              | 51347 | TH 32 |
|                              | 51348 | TH 40 |
|                              | 51351 | U 16  |
|                              | 51353 | U 20  |
| LECHAR COBRAPEX              | 51354 | U 25  |
|                              | 51355 | U 32  |

| SYSTEM                                   | COD.  | TYPE       |
|------------------------------------------|-------|------------|
| LEGEND-PRESS press fitting system        | 51428 | VUS 1/2"   |
|                                          | 51429 | VUS 3/4"   |
|                                          | 51430 | VUS 1"     |
|                                          | 51431 | VUS 1 1/4" |
|                                          | 51326 | V 12       |
| LK Systems >B<-Press                     | 51328 | V 15       |
|                                          | 51330 | V 18       |
|                                          | 51331 | V 22       |
|                                          | 51332 | V 28       |
|                                          | 51333 | V 35       |
| LK Systems Universal                     | 51341 | TH 16      |
|                                          | 51344 | TH 20      |
|                                          | 51345 | TH 25      |
|                                          | 51347 | TH 32      |
|                                          | 51348 | TH 40      |
| Mair Heiztechnik Gomafix Cu/E            | 51320 | M 12       |
|                                          | 51321 | M 15       |
|                                          | 51322 | M 18       |
|                                          | 51323 | M 22       |
|                                          | 51358 | H 11,5     |
| Mair Heiztechnik Gomafix M               | 51360 | H 14       |
|                                          | 51361 | H 16       |
|                                          | 51364 | H 20       |
|                                          | 51366 | H 26       |
|                                          | 51367 | H 32       |
| Mair Heiztechnik M-Press                 | 51322 | M 18       |
|                                          | 51323 | M 22       |
|                                          | 51339 | TH 14      |
|                                          | 51341 | TH 16      |
|                                          | 51343 | TH 18      |
| Mark KG Polymark                         | 51344 | TH 20      |
|                                          | 51345 | TH 25      |
|                                          | 51346 | TH 26      |
|                                          | 51347 | TH 32      |
|                                          | 51341 | TH 16      |
| Ma.s.ter System PRESSMASTER              | 51343 | TH 18      |
|                                          | 51344 | TH 20      |
|                                          | 51345 | TH 25      |
|                                          | 51346 | TH 26      |
|                                          | 51347 | TH 32      |
| MAXITUB MAXIPRESS                        | 51361 | H 16       |
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|                                          | 51366 | H 26       |
|                                          | 51367 | H 32       |
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|                                          | 51347 | TH 32      |
|                                          | 51353 | U 20       |
|                                          | 51354 | U 25       |
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|                                          | 51403 | RFz 20     |
|                                          | 51404 | RFz 25     |
| METALGRUP PexGrup                        | 51358 | H 11,5     |
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|                                          | 51363 | H 18       |
| METALGRUP MultiGrup                      | 51364 | H 20       |
|                                          | 51366 | H 26       |
|                                          | 51367 | H 32       |
|                                          | 51392 | B 16       |
|                                          | 51394 | B 20       |
| MULTITHERM PRESSSYSTEM                   | 51395 | B 26       |
|                                          | 51396 | B 32       |
|                                          | 51402 | RFz 16     |
|                                          | 51403 | RFz 20     |
|                                          | 51404 | RFz 25     |
| Multicap Industrial multitubo systems MC | 51405 | RFz 32     |
|                                          | 51351 | U 16       |
|                                          | 51352 | U 18       |
|                                          | 51425 | MT 20      |
|                                          | 51426 | MT 25      |
| Multicap Industrial multitubo systems MM | 51427 | MT 32      |
|                                          | 51356 | U 40       |
|                                          | 51351 | U 16       |
|                                          | 51425 | MT 20      |
|                                          | 51426 | MT 25      |
| Oteraccordi Oter Tecnico                 | 51427 | MT 32      |
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|                                          | 51344 | TH 20      |
|                                          | 51345 | TH 25      |
|                                          | 51346 | TH 26      |
| Oteraccordi Oter Tecnico carbonio        | 51347 | TH 32      |
|                                          | 51348 | TH 40      |
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|                                          | 51352 | U 18       |
|                                          | 51425 | MT 20      |
| Oteraccordi Oter Tecnico Gas             | 51426 | MT 25      |
|                                          | 51427 | MT 32      |
|                                          | 51403 | RFz 20     |
|                                          | 51404 | RFz 25     |
|                                          | 51405 | RFz 32     |
| Oventrop Cofit P                         | 51361 | H 16       |
|                                          | 51364 | H 20       |
|                                          | 51365 | H 25       |
|                                          | 51366 | H 26       |
|                                          | 51367 | H 32       |

| SYSTEM                            | COD.  | TYPE   |
|-----------------------------------|-------|--------|
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|                                   | 51364 | H 20   |
|                                   | 51366 | H 26   |
|                                   | 51367 | H 32   |
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|                                   | 51367 | H 32   |
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|                                   | 51344 | TH 20  |
| N.T.M WINNY-AL                    | 51345 | TH 25  |
|                                   | 51347 | TH 32  |
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|                                   | 51344 | TH 20  |
| Nicol Fluxo                       | 51346 | TH 26  |
|                                   | 51347 | TH 32  |
|                                   | 51348 | TH 40  |
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|                                   | 51355 | U 32   |
|                                   | 51356 | U 40   |
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|                                   | 51332 | V 28   |
|                                   | 51333 | V 35   |
| Nussbaum Optiflex                 | 51397 | VP 16  |
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|                                   | 51400 | VP 32  |
|                                   | 51328 | V 15   |
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|                                   | 51332 | V 28   |
|                                   | 51333 | V 35   |
|                                   | 51328 | V 15   |
| Nussbaum Optipress-Therm          | 51330 | V 18   |
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|                                   | 51332 | V 28   |
|                                   | 51333 | V 35   |
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| O.M.T. Heizungssystem             | 51364 | H 20   |
|                                   | 51366 | H 26   |
|                                   | 51367 | H 32   |
|                                   | 51320 | M 12   |
|                                   | 51321 | M 15   |
| Oteraccordi Oter Tecnico          | 51322 | M 18   |
|                                   | 51323 | M 22   |
|                                   | 51324 | M 28   |
|                                   | 51325 | M 35   |
|                                   | 51320 | M 12   |
| Oteraccordi Oter Tecnico carbonio | 51321 | M 15   |
|                                   | 51322 | M 18   |
|                                   | 51323 | M 22   |
|                                   | 51324 | M 28   |
|                                   | 51325 | M 35   |
| Oteraccordi Oter Tecnico Gas      | 51320 | M 12   |
|                                   | 51321 | M 15   |
|                                   | 51322 | M 18   |
|                                   | 51323 | M 22   |
|                                   | 51324 | M 28   |
| Oventrop Cofit P                  | 51325 | M 35   |
|                                   | 51369 | H 16 A |
|                                   | 51371 | H 20 A |
|                                   | 51372 | H 26 A |
|                                   | 51373 | H 32 A |

| SYSTEM            | COD.  | TYPE   | SYSTEM            | COD.  | TYPE   | SYSTEM   | COD.  | TYPE     | SYSTEM          | COD.  | TYPE  |
|-------------------|-------|--------|-------------------|-------|--------|----------|-------|----------|-----------------|-------|-------|
| PB TUB            | 51401 | RfZ 12 | PLÁSTICOS         | 51402 | RfZ 16 |          |       |          | Rubinetteria    | 51341 | TH 16 |
| SERTIPRESS        | 51402 | RfZ 16 | FERRO             | 51403 | RfZ 20 | POLYSAN  | 51351 | U 16     | Bresciane       | 51344 | TH 20 |
|                   | 51403 | RfZ 20 | FERROLAST         | 51404 | RfZ 25 | (España) | 51352 | U 18     | Bonomi          | 51346 | TH 26 |
|                   | 51404 | RfZ 25 | Pressfitting PE-X | 51405 | RfZ 32 | Rainbow  | 51354 | U 25     | TURBO PRESS GAS | 51347 | TH 32 |
|                   | 51321 | M 15   |                   | 51402 | RfZ 16 |          | 51355 | U 32     |                 | 51339 | TH 14 |
| Pegler Yorkshire  | 51322 | M 18   |                   | 51403 | RfZ 20 |          | 51356 | U 40     |                 | 51341 | TH 16 |
| XPress Carbon     | 51323 | M 22   |                   | 51404 | RfZ 25 |          | 51360 | H 14     |                 | 51343 | TH 18 |
|                   | 51324 | M 28   | PLOMYPLAS         | 51341 | TH 16  |          | 51361 | H 16     | SA.MI plastic   | 51344 | TH 20 |
|                   | 51325 | M 35   | PlomyPRESS        | 51344 | TH 20  |          | 51363 | H 18     |                 | 51346 | TH 26 |
|                   | 51321 | M 15   | plomyAIR          | 51345 | TH 25  |          | 51364 | H 20     |                 | 51347 | TH 32 |
| Pegler Yorkshire  | 51322 | M 18   |                   | 51347 | TH 32  |          | 51366 | H 26     |                 | 51348 | TH 40 |
| XPress Copper     | 51323 | M 22   |                   | 51351 | U 16   |          | 51367 | H 32     |                 | 51339 | TH 14 |
|                   | 51324 | M 28   | PLOMYPLAS         | 51353 | U 20   |          | 51363 | H 18     |                 | 51341 | TH 16 |
|                   | 51325 | M 35   | plomyPRESS        | 51354 | U 25   |          | 51364 | H 20     |                 | 51344 | TH 20 |
|                   | 51321 | M 15   | plomyGAS          | 51355 | U 32   |          | 51366 | H 26     |                 | 51346 | TH 26 |
| Pegler Yorkshire  | 51322 | M 18   |                   | 51341 | TH 16  |          | 51366 | H 26     |                 | 51347 | TH 32 |
| XPress Copper Gas | 51323 | M 22   |                   | 51344 | TH 20  |          | 51367 | H 32     |                 | 51348 | TH 40 |
|                   | 51324 | M 28   |                   | 51345 | TH 25  |          | 51341 | TH 16    |                 | 51339 | TH 14 |
|                   | 51339 | TH 14  |                   | 51347 | TH 32  |          | 51343 | TH 18    |                 | 51341 | TH 16 |
| Pegler Yorkshire  | 51341 | TH 16  |                   | 51402 | RfZ 16 |          | 51344 | TH 20    |                 | 51344 | TH 20 |
| Henco Multilayer  | 51343 | TH 18  |                   | 51403 | RfZ 20 |          | 51346 | TH 26    |                 | 51350 | U 14  |
| Solutions         | 51344 | TH 20  |                   | 51404 | RfZ 25 |          | 51347 | TH 32    |                 | 51351 | U 16  |
|                   | 51346 | TH 26  |                   | 51405 | RfZ 32 |          | 51347 | TH 32    |                 | 51353 | U 20  |
|                   | 51321 | M 15   | PLOMYPLAS         | 51341 | TH 16  |          | 51351 | U 16     |                 | 51355 | U 40  |
| XPress Solar      | 51322 | M 18   | plomyPRESS        | 51344 | TH 20  |          | 51352 | U 18     |                 | 51406 | SA 12 |
|                   | 51323 | M 22   | plomyLAYER        | 51345 | TH 25  |          | 51353 | U 20     |                 | 51408 | SA 15 |
|                   | 51324 | M 28   |                   | 51347 | TH 32  |          | 51336 | TH 10    |                 | 51410 | SA 18 |
|                   | 51325 | M 35   |                   | 51351 | U 16   |          | 51341 | TH 16    |                 | 51411 | SA 22 |
|                   | 51321 | M 15   |                   | 51353 | U 20   |          | 51342 | TH 17    |                 | 51412 | SA 28 |
| Pegler Yorkshire  | 51322 | M 18   |                   | 51354 | U 25   |          | 51344 | TH 20    |                 | 51412 | SA 28 |
| XPress            | 51323 | M 22   |                   | 51355 | U 32   |          | 51346 | TH 26    |                 | 51320 | M 12  |
| Stainless         | 51324 | M 28   |                   | 51402 | RfZ 16 |          | 51347 | TH 32    |                 | 51321 | M 15  |
|                   | 51325 | M 35   |                   | 51403 | RfZ 20 |          | 51339 | TH 14    | SANHA-Press     | 51322 | M 18  |
|                   | 51351 | U 16   |                   | 51404 | RfZ 25 |          | 51341 | TH 16    | Chrom           | 51323 | M 22  |
|                   | 51352 | U 18   |                   | 51405 | RfZ 32 |          | 51342 | TH 17    | Serie 16000     | 51324 | M 28  |
|                   | 51353 | U 20   | PLOMYPLAS         | 51341 | TH 16  |          | 51343 | TH 18    |                 | 51325 | M 35  |
|                   | 51354 | U 25   | plomyPRESS        | 51344 | TH 20  |          | 51344 | TH 20    |                 | 51326 | V 12  |
|                   | 51355 | U 32   | plomyLAYER PEX    | 51345 | TH 25  |          | 51346 | TH 26    |                 | 51328 | V 15  |
|                   | 51356 | U 40   |                   | 51347 | TH 32  |          | 51347 | TH 32    |                 | 51330 | V 18  |
|                   | 51321 | M 15   |                   | 51351 | U 16   |          | 51346 | TH 26    |                 | 51331 | V 22  |
| PERFILTUBO        | 51322 | M 18   |                   | 51353 | U 20   |          | 51347 | TH 32    |                 | 51332 | V 28  |
| PERFILALUPEX      | 51323 | M 22   |                   | 51354 | U 25   |          | 51321 | M 15     |                 | 51333 | V 35  |
|                   | 51324 | M 28   |                   | 51355 | U 32   |          | 51322 | M 18     |                 | 51408 | SA 15 |
|                   | 51325 | M 35   |                   | 51402 | RfZ 16 |          | 51323 | M 22     |                 | 51410 | SA 18 |
|                   | 51402 | RfZ 16 |                   | 51403 | RfZ 20 |          | 51324 | M 28     |                 | 51411 | SA 22 |
|                   | 51403 | RfZ 20 |                   | 51404 | RfZ 25 |          | 51321 | M 15     |                 | 51412 | SA 28 |
|                   | 51404 | RfZ 25 |                   | 51405 | RfZ 32 |          | 51322 | M 18     |                 | 51323 | M 22  |
|                   | 51405 | RfZ 32 |                   | 51341 | TH 16  |          | 51323 | M 22     |                 | 51324 | M 28  |
|                   | 51321 | M 15   |                   | 51344 | TH 20  |          | 51324 | M 28     |                 | 51325 | M 35  |
|                   | 51322 | M 18   | PLOMYPLAS         | 51345 | TH 25  |          | 51339 | TH 14    |                 | 51328 | V 15  |
|                   | 51323 | M 22   | plomyPRESS        | 51347 | TH 32  |          | 51341 | TH 16    |                 | 51330 | V 18  |
|                   | 51324 | M 28   | plomyPERT EVAL    | 51351 | U 16   |          | 51343 | TH 18    |                 | 51331 | V 22  |
|                   | 51325 | M 35   |                   | 51353 | U 20   |          | 51344 | TH 20    |                 | 51332 | V 28  |
|                   | 51321 | M 15   |                   | 51354 | U 25   |          | 51346 | TH 26    |                 | 51333 | V 35  |
|                   | 51322 | M 18   |                   | 51355 | U 32   |          | 51347 | TH 32    |                 | 51408 | SA 15 |
|                   | 51323 | M 22   |                   | 51402 | RfZ 16 |          | 51360 | H 14     |                 | 51410 | SA 18 |
|                   | 51324 | M 28   |                   | 51403 | RfZ 20 |          | 51361 | H 16     |                 | 51411 | SA 22 |
|                   | 51325 | M 35   |                   | 51404 | RfZ 25 |          | 51363 | H 18     |                 | 51412 | SA 28 |
|                   | 51402 | RfZ 16 |                   | 51405 | RfZ 32 |          | 51364 | H 20     |                 | 51321 | M 15  |
|                   | 51403 | RfZ 20 |                   | 51341 | TH 16  |          | 51366 | H 26     |                 | 51322 | M 18  |
|                   | 51404 | RfZ 25 |                   | 51344 | TH 20  |          | 51367 | H 32     |                 | 51323 | M 22  |
|                   | 51405 | RfZ 32 |                   | 51345 | TH 25  |          | 51350 | U 14     |                 | 51324 | M 28  |
|                   | 51321 | M 15   |                   | 51347 | TH 32  |          | 51351 | U 16     |                 | 51325 | M 35  |
|                   | 51322 | M 18   |                   | 51351 | U 16   |          | 51352 | U 18     |                 | 51328 | V 15  |
|                   | 51323 | M 22   |                   | 51353 | U 20   |          | 51353 | U 20     |                 | 51330 | V 18  |
|                   | 51324 | M 28   |                   | 51354 | U 25   |          | 51354 | U 25     |                 | 51331 | V 22  |
|                   | 51325 | M 35   |                   | 51355 | U 32   |          | 51355 | U 32     |                 | 51332 | V 28  |
|                   | 51321 | M 15   |                   | 51402 | RfZ 16 |          | 51341 | TH 16    |                 | 51333 | V 35  |
|                   | 51322 | M 18   |                   | 51403 | RfZ 20 |          | 51344 | TH 20    |                 | 51408 | SA 15 |
|                   | 51323 | M 22   |                   | 51404 | RfZ 25 |          | 51345 | TH 25    |                 | 51410 | SA 18 |
|                   | 51324 | M 28   |                   | 51405 | RfZ 32 |          | 51346 | TH 26    |                 | 51411 | SA 22 |
|                   | 51325 | M 35   |                   | 51341 | TH 16  |          | 51347 | TH 32    |                 | 51412 | SA 28 |
|                   | 51321 | M 15   |                   | 51344 | TH 20  |          | 51401 | RfZ 12   |                 | 51321 | M 15  |
|                   | 51322 | M 18   |                   | 51345 | TH 25  |          | 51402 | RfZ 16   |                 | 51322 | M 18  |
|                   | 51323 | M 22   |                   | 51347 | TH 32  |          | 51403 | RfZ 20   |                 | 51323 | M 22  |
|                   | 51324 | M 28   |                   | 51351 | U 16   |          | 51404 | RfZ 25   |                 | 51324 | M 28  |
|                   | 51325 | M 35   |                   | 51353 | U 20   |          | 51351 | U 16     |                 | 51325 | M 35  |
|                   | 51321 | M 15   |                   | 51354 | U 25   |          | 51353 | U 20     |                 | 51328 | V 15  |
|                   | 51322 | M 18   |                   | 51355 | U 32   |          | 51354 | U 25     |                 | 51330 | V 18  |
|                   | 51323 | M 22   |                   | 51402 | RfZ 16 |          | 51355 | U 32     |                 | 51331 | V 22  |
|                   | 51324 | M 28   |                   | 51403 | RfZ 20 |          | 51341 | TH 16    |                 | 51332 | V 28  |
|                   | 51325 | M 35   |                   | 51404 | RfZ 25 |          | 51344 | TH 20    |                 | 51333 | V 35  |
|                   | 51321 | M 15   |                   | 51405 | RfZ 32 |          | 51345 | TH 25    |                 | 51408 | SA 15 |
|                   | 51322 | M 18   |                   | 51341 | TH 16  |          | 51346 | TH 26    |                 | 51410 | SA 18 |
|                   | 51323 | M 22   |                   | 51344 | TH 20  |          | 51347 | TH 32    |                 | 51411 | SA 22 |
|                   | 51324 | M 28   |                   | 51345 | TH 25  |          | 51341 | TH 16    |                 | 51412 | SA 28 |
|                   | 51325 | M 35   |                   | 51347 | TH 32  |          | 51343 | TH 18    |                 | 51321 | M 15  |
|                   | 51321 | M 15   |                   | 51351 | U 16   |          | 51344 | TH 20    |                 | 51322 | M 18  |
|                   | 51322 | M 18   |                   | 51353 | U 20   |          | 51346 | TH 26    |                 | 51323 | M 22  |
|                   | 51323 | M 22   |                   | 51354 | U 25   |          | 51347 | TH 32    |                 | 51324 | M 28  |
|                   | 51324 | M 28   |                   | 51355 | U 32   |          | 51401 | RfZ 12   |                 | 51325 | M 35  |
|                   | 51325 | M 35   |                   | 51402 | RfZ 16 |          | 51402 | RfZ 16   |                 | 51328 | V 15  |
|                   | 51321 | M 15   |                   | 51403 | RfZ 20 |          | 51403 | RfZ 20   |                 | 51330 | V 18  |
|                   | 51322 | M 18   |                   | 51404 | RfZ 25 |          | 51404 | RfZ 25   |                 | 51331 | V 22  |
|                   | 51323 | M 22   |                   | 51405 | RfZ 32 |          | 51351 | U 16     |                 | 51332 | V 28  |
|                   | 51324 | M 28   |                   | 51341 | TH 16  |          | 51353 | U 20     |                 | 51333 | V 35  |
|                   | 51325 | M 35   |                   | 51344 | TH 20  |          | 51354 | U 25     |                 | 51408 | SA 15 |
|                   | 51321 | M 15   |                   | 51345 | TH 25  |          | 51355 | U 32     |                 | 51410 | SA 18 |
|                   | 51322 | M 18   |                   | 51347 | TH 32  |          | 51341 | TH 16    |                 | 51411 | SA 22 |
|                   | 51323 | M 22   |                   | 51351 | U 16   |          | 51344 | TH 20    |                 | 51412 | SA 28 |
|                   | 51324 | M 28   |                   | 51353 | U 20   |          | 51345 | TH 25    |                 | 51321 | M 15  |
|                   | 51325 | M 35   |                   | 51354 | U 25   |          | 51346 | TH 26    |                 | 51322 | M 18  |
|                   | 51321 | M 15   |                   | 51355 | U 32   |          | 51347 | TH 32    |                 | 51323 | M 22  |
|                   | 51322 | M 18   |                   | 51402 | RfZ 16 |          | 51401 | RfZ 12   |                 | 51324 | M 28  |
|                   | 51323 | M 22   |                   | 51403 | RfZ 20 |          | 51402 | RfZ 16   |                 | 51325 | M 35  |
|                   | 51324 | M 28   |                   | 51404 | RfZ 25 |          | 51353 | U 20     |                 | 51328 | V 15  |
|                   | 51325 | M 35   |                   | 51405 | RfZ 32 |          | 51354 | U 25     |                 | 51330 | V 18  |
|                   | 51321 | M 15   |                   | 51341 | TH 16  |          | 51355 | U 32     |                 | 51331 | V 22  |
|                   | 51322 | M 18   |                   | 51344 | TH 20  |          | 51341 | TH 16    |                 | 51332 | V 28  |
|                   | 51323 | M 22   |                   | 51345 | TH 25  |          | 51344 | TH 20    |                 | 51333 | V 35  |
|                   | 51324 | M 28   |                   | 51347 | TH 32  |          | 51345 | TH 25    |                 | 51408 | SA 15 |
|                   | 51325 | M 35   |                   | 51351 | U 16   |          | 51346 | TH 26    |                 | 51410 | SA 18 |
|                   | 51321 | M 15   |                   | 51353 | U 20   |          | 51347 | TH 32    |                 | 51409 | SA 16 |
|                   | 51322 | M 18   |                   | 51354 | U 25   |          | 51377 | RN 17    |                 | 51410 | SA 18 |
|                   | 51323 | M 22   |                   | 51355 | U 32   |          | 51378 | RN 20    |                 | 51411 | SA 22 |
|                   | 51324 | M 28   |                   | 51402 | RfZ 16 |          | 51379 | RN 25/26 |                 | 51412 | SA 28 |
|                   | 51325 | M 35   |                   | 51403 | RfZ 20 |          | 51380 | RN 32    |                 | 51320 | M 12  |
|                   | 51321 | M 15   |                   | 51404 | RfZ 25 |          | 51376 |          |                 |       |       |

| SYSTEM                                                       | COD.  | TYPE                           | SYSTEM                                             | COD.                                 | TYPE                                    | SYSTEM                               | COD.                                    | TYPE                          | SYSTEM                            | COD.    | TYPE                        |
|--------------------------------------------------------------|-------|--------------------------------|----------------------------------------------------|--------------------------------------|-----------------------------------------|--------------------------------------|-----------------------------------------|-------------------------------|-----------------------------------|---------|-----------------------------|
| SANHA-<br>Pressfittings Gas<br>Serie 10000/<br>Serie 11000   | 51406 | SA 12                          | Schlösser<br>EUROPRESS-<br>SYSTEM                  | 51341                                | TH 16                                   | Standard Hidráulica<br>MultiStandard | 51351                                   | U 16                          | TRA TRAPRESS                      | 51359   | H 12                        |
|                                                              | 51407 | SA 14                          |                                                    | 51344                                | TH 20                                   |                                      | 51352                                   | U 18                          |                                   | 51361   | H 16                        |
|                                                              | 51408 | SA 15                          |                                                    | 51346                                | TH 26                                   |                                      | 51353                                   | U 20                          |                                   | 51364   | H 20                        |
|                                                              | 51409 | SA 16                          |                                                    | 51347                                | TH 32                                   |                                      | 51354                                   | U 25                          |                                   | 51354   | H 25                        |
|                                                              | 51410 | SA 18                          |                                                    | 51339                                | TH 14                                   |                                      | 51355                                   | U 32                          |                                   | 51367   | H 32                        |
|                                                              | 51411 | SA 22                          | 51341                                              | TH 16                                | STELBI<br>POLIKRAFT                     | 51339                                | TH 14                                   | 51401                         |                                   | RFz 12  |                             |
|                                                              | 51412 | SA 28                          | 51344                                              | TH 20                                |                                         | 51341                                | TH 16                                   | 51402                         |                                   | RFz 16  |                             |
|                                                              | 51320 | M 12                           | 51344                                              | TH 20                                |                                         | 51343                                | TH 18                                   | 51403                         |                                   | RFz 20  |                             |
|                                                              | 51321 | M 15                           | 51346                                              | TH 26                                |                                         | 51344                                | TH 20                                   | 51404                         |                                   | RFz 25  |                             |
|                                                              | 51322 | M 18                           | 51347                                              | TH 32                                |                                         | 51346                                | TH 26                                   | 51405                         |                                   | RFz 32  |                             |
|                                                              | 51323 | M 22                           | Schwer<br>AQUApress                                | 51320                                | M 12                                    | SURE HISPANIA<br>SURE-PRESS          | 51446                                   | Acz 16                        | Tréfirmétaux Qtec                 | 51339   | TH 14                       |
|                                                              | 51324 | M 28                           |                                                    | 51321                                | M 15                                    |                                      | 51447                                   | Acz 20                        |                                   | 51341   | TH 16                       |
|                                                              | 51325 | M 35                           |                                                    | 51322                                | M 18                                    |                                      | 51448                                   | Acz 25                        |                                   | 51343   | TH 18                       |
|                                                              | 51326 | V 12                           |                                                    | 51323                                | M 22                                    |                                      | 51405                                   | RFz 32                        |                                   | 51344   | TH 20                       |
|                                                              | 51327 | V 14                           |                                                    | 51324                                | M 28                                    |                                      | 51326                                   | V 12                          |                                   | 51347   | TH 32                       |
|                                                              | 51328 | V 15                           | Seppelfricke<br>Sudopress Cu<br>Visu-Control       | 51326                                | V 12                                    | System WELCO-<br>Flex                | 51368                                   | H 14 A                        | Ulrich<br>VARIOFLEX-<br>HAKAPRESS | 51360   | H 14                        |
|                                                              | 51329 | V 16                           |                                                    | 51328                                | V 15                                    |                                      | 51369                                   | H 16 A                        |                                   | 51361   | H 16                        |
|                                                              | 51330 | VG 16                          |                                                    | 51330                                | V 18                                    |                                      | 51370                                   | H 17 A                        |                                   | 51362   | H 17                        |
|                                                              | 51331 | V 22                           |                                                    | 51331                                | V 22                                    |                                      | 51371                                   | H 20 A                        |                                   | 51363   | H 18                        |
|                                                              | 51332 | V 28                           |                                                    | 51332                                | V 28                                    |                                      | 51372                                   | H 26 A                        |                                   | 51364   | H 20                        |
| 51333                                                        | V 35  | 51333                          | V 35                                               | 51373                                | H 32 A                                  | 51366                                | H 26                                    |                               |                                   |         |                             |
| SANHA-<br>Pressfittings Solar<br>Serie 12000/<br>Serie 13000 | 51406 | SA 12                          | Seppelfricke<br>Sudopress Cu<br>Visu-Control Solar | 51328                                | V 15                                    | System WELCO-<br>Teck                | 51369                                   | H 16 A                        | UNICAL AG MAX<br>MULTIPEX         | 51351   | U 16                        |
|                                                              | 51408 | SA 15                          |                                                    | 51330                                | V 18                                    |                                      | 51371                                   | H 20 A                        |                                   | 51353   | U 20                        |
|                                                              | 51410 | SA 18                          |                                                    | 51331                                | V 22                                    |                                      | 51372                                   | H 26 A                        |                                   | 51361   | H 16                        |
|                                                              | 51411 | SA 22                          |                                                    | 51332                                | V 28                                    |                                      | 51392                                   | B 16                          |                                   | 51364   | H 20                        |
|                                                              | 51412 | SA 28                          |                                                    | 51333                                | V 35                                    |                                      | 51394                                   | B 20                          |                                   | 51366   | H 26                        |
|                                                              | 51320 | M 12                           | Seppelfricke<br>Xpress copper                      | 51320                                | M 12                                    | TERMICALINE<br>Termipex              | 51395                                   | B 26                          | UNIDELTA Deltall                  | 51339   | TH 14                       |
|                                                              | 51321 | M 15                           |                                                    | 51321                                | M 15                                    |                                      | 51396                                   | B 32                          |                                   | 51341   | TH 16                       |
|                                                              | 51322 | M 18                           |                                                    | 51322                                | M 18                                    |                                      | 51361                                   | H 16                          |                                   | 51343   | TH 18                       |
|                                                              | 51323 | M 22                           |                                                    | 51323                                | M 22                                    |                                      | 51364                                   | H 20                          |                                   | 51344   | TH 20                       |
|                                                              | 51324 | M 28                           |                                                    | 51324                                | M 28                                    |                                      | 51341                                   | TH 16                         |                                   | 51346   | TH 26                       |
|                                                              | 51325 | M 35                           | Seppelfricke<br>Xpress copper<br>Gas               | 51321                                | M 15                                    | TermoConcept<br>TC-PRESS             | 51449                                   | Basic E01 <sup>2)</sup>       | Uponor Unipipe                    | 51350   | U 14                        |
|                                                              | 51326 | V 12                           |                                                    | 51322                                | M 18                                    |                                      | 51350                                   | U 14                          |                                   | 51351   | U 16                        |
|                                                              | 51327 | V 14                           |                                                    | 51323                                | M 22                                    |                                      | 51351                                   | U 16                          |                                   | 51352   | U 18                        |
|                                                              | 51328 | V 15                           |                                                    | 51324                                | M 28                                    |                                      | 51353                                   | U 20                          |                                   | 51353   | U 20                        |
|                                                              | 51329 | V 16                           |                                                    | 51325                                | M 35                                    |                                      | 51354                                   | U 25                          |                                   | 51355   | U 32                        |
|                                                              | 51330 | V 18                           | Seppelfricke<br>Xpress carbon                      | 51326                                | V 12                                    | THERMAGAS<br>Espace Espresso         | 51339                                   | TH 14                         | Uponor MLC                        | 51355   | U 32                        |
|                                                              | 51331 | V 22                           |                                                    | 51327                                | V 14                                    |                                      | 51341                                   | TH 16                         |                                   | 51356   | U 40                        |
|                                                              | 51332 | V 28                           |                                                    | 51328                                | V 15                                    |                                      | 51344                                   | TH 20                         |                                   | 51432   | UP 14                       |
|                                                              | 51333 | V 35                           |                                                    | 51329                                | V 16                                    |                                      | 51346                                   | TH 26                         |                                   | 51433   | UP 16                       |
|                                                              | 51406 | SA 12                          |                                                    | Seppelfricke<br>SKIN<br>Visu-control | 51341                                   |                                      | TH 16                                   | THERMOLUTZ<br>acular / rapid  |                                   | 51360   | H 14                        |
| 51408                                                        | SA 15 | 51342                          | TH 18                                              |                                      | 51361                                   | H 16                                 | 51435                                   |                               | UP 20                             |         |                             |
| 51410                                                        | SA 18 | 51343                          | TH 20                                              |                                      | 51362                                   | H 17                                 | 51436                                   |                               | UP 22                             |         |                             |
| 51411                                                        | SA 22 | 51344                          | TH 26                                              |                                      | 51402                                   | RFz 16                               | 51437                                   |                               | UP 32                             |         |                             |
| 51412                                                        | SA 28 | 51345                          | TH 32                                              |                                      | 51403                                   | RFz 20                               | 51433                                   |                               | UP 16                             |         |                             |
| 51320                                                        | M 12  | Seppelfricke<br>HENCO PRESS    | 51341                                              | TH 16                                | THISA Thisa<br>multiplus                | 51404                                | RFz 25                                  | Uponor MLC-G                  | 51435                             | UP 20   |                             |
| 51321                                                        | M 15  |                                | 51342                                              | TH 18                                |                                         | 51405                                | RFz 32                                  |                               | 51436                             | UP 25   |                             |
| 51322                                                        | M 18  |                                | 51343                                              | TH 20                                |                                         | 51351                                | U 16                                    |                               | 51355                             | U 32    |                             |
| 51323                                                        | M 22  |                                | 51344                                              | TH 26                                |                                         | 51352                                | U 18                                    |                               | 51356                             | U 40    |                             |
| 51324                                                        | M 28  |                                | 51345                                              | TH 32                                |                                         | 51353                                | U 20                                    |                               | 51435                             | UP 20   |                             |
| 51325                                                        | M 35  | SESTA<br>Sistema<br>multitrato | 51346                                              | TH 26                                | THISA Thisa Pex                         | 51354                                | U 25                                    | Valsir PEXAL                  | 51360                             | H 14    |                             |
| 51326                                                        | V 12  |                                | 51347                                              | TH 32                                |                                         | 51355                                | U 32                                    |                               | 51361                             | H 16    |                             |
| 51327                                                        | V 14  |                                | 51348                                              | TH 40                                |                                         | 51356                                | U 40                                    |                               | 51364                             | H 20    |                             |
| 51328                                                        | V 15  |                                | 51349                                              | THL 32                               |                                         | 51402                                | RFz 16                                  |                               | 51366                             | H 26    |                             |
| 51329                                                        | V 16  |                                | 51351                                              | U 16                                 |                                         | 51403                                | RFz 20                                  |                               | 51374                             | H 32 V  |                             |
| 51330                                                        | V 18  | SIKO TYPRO                     | 51353                                              | U 20                                 | TIEMME<br>COBRAPRESS                    | 51404                                | RFz 25                                  | Valsir PEXAL Gas              | 51360                             | H 14    |                             |
| 51331                                                        | V 22  |                                | 51361                                              | H 16                                 |                                         | 51346                                | TH 26                                   |                               | 51361                             | H 16    |                             |
| 51332                                                        | V 28  |                                | 51364                                              | H 20                                 |                                         | 51347                                | TH 32                                   |                               | 51364                             | H 20    |                             |
| 51333                                                        | V 35  |                                | 51367                                              | H 32                                 |                                         | 51348                                | TH 40                                   |                               | 51366                             | H 26    |                             |
| 51406                                                        | SA 12 |                                | SIKO TYROTHERM                                     | 51339                                |                                         | TH 14                                | TIEMME Serie<br>1700 PE-X a<br>pressare |                               | 51402                             | RFz 16  | Vn Marcke Log.<br>Tu-Bi-Pex |
| 51408                                                        | SA 15 | 51341                          |                                                    | TH 16                                | 51403                                   | RFz 20                               |                                         | 51342                         | TH 17                             |         |                             |
| 51410                                                        | SA 18 | 51343                          |                                                    | TH 18                                | 51404                                   | RFz 25                               |                                         | 51344                         | TH 20                             |         |                             |
| 51411                                                        | SA 22 | 51344                          |                                                    | TH 20                                | 51405                                   | RFz 32                               |                                         | 51346                         | TH 26                             |         |                             |
| 51412                                                        | SA 28 | 51346                          |                                                    | TH 26                                | 51351                                   | U 16                                 |                                         | 51347                         | TH 32                             |         |                             |
| 51320                                                        | M 12  | SLOVARM<br>PEX-THERM           | 51347                                              | TH 32                                | TKM Fellingsbro<br>TKMPRESS             | 51352                                | U 18                                    | Vn Marcke Log.<br>Tu-Bi-Press | 51348                             | TH 40   |                             |
| 51321                                                        | M 15  |                                | 51348                                              | TH 40                                |                                         | 51345                                | TH 25                                   |                               | 51320                             | M 12    |                             |
| 51322                                                        | M 18  |                                | 51349                                              | THL 32                               |                                         | 51346                                | TH 26                                   |                               | 51321                             | M 15    |                             |
| 51323                                                        | M 22  |                                | 51351                                              | U 16                                 |                                         | 51347                                | TH 32                                   |                               | 51322                             | M 18    |                             |
| 51324                                                        | M 28  |                                | 51353                                              | U 20                                 |                                         | 51348                                | TH 40                                   |                               | 51323                             | M 22    |                             |
| 51325                                                        | M 35  | SOEMS sistema<br>multitrato    | 51356                                              | H 26                                 | TRA MULTISAPER                          | 51349                                | THL 32                                  | Variotherm<br>System TH       | 51324                             | M 28    |                             |
| 51326                                                        | V 12  |                                | 51355                                              | U 32                                 |                                         | 51402                                | RFz 16                                  |                               | 51325                             | M 35    |                             |
| 51327                                                        | V 14  |                                | 51361                                              | H 16                                 |                                         | 51403                                | RFz 20                                  |                               | 51337                             | TH 11,6 |                             |
| 51328                                                        | V 15  |                                | 51364                                              | H 20                                 |                                         | 51404                                | RFz 25                                  |                               | 51341                             | TH 16   |                             |
| 51329                                                        | V 16  |                                | 51367                                              | H 32                                 |                                         | 51405                                | RFz 32                                  |                               | 51326                             | V 12    |                             |
| 51330                                                        | V 18  | SOEMS sistema<br>rame e inox   | 51326                                              | V 12                                 | TIEMME Serie<br>1700 PE-X a<br>pressare | 51360                                | H 14                                    | Viega Copatin                 | 51328                             | V 15    |                             |
| 51331                                                        | V 22  |                                | 51328                                              | V 15                                 |                                         | 51361                                | H 16                                    |                               | 51330                             | V 18    |                             |
| 51332                                                        | V 28  |                                | 51329                                              | V 16                                 |                                         | 51362                                | H 17                                    |                               | 51331                             | V 22    |                             |
| 51333                                                        | V 35  |                                | 51330                                              | V 18                                 |                                         | 51363                                | H 18                                    |                               | 51332                             | V 28    |                             |
| 51406                                                        | SA 12 |                                | SOEMS sistema<br>rame e inox                       | 51331                                |                                         | V 22                                 | 51364                                   |                               | H 20                              | 51333   | V 35                        |
| 51408                                                        | SA 15 | 51332                          |                                                    | V 28                                 | 51366                                   | H 26                                 | 51422                                   | VX 16                         |                                   |         |                             |
| 51410                                                        | SA 18 | 51333                          |                                                    | V 35                                 | 51367                                   | H 32                                 | 51423                                   | VX 20                         |                                   |         |                             |
| 51411                                                        | SA 22 | 51326                          |                                                    | V 12                                 | 51369                                   | H 26 A                               | 51424                                   | VX 25                         |                                   |         |                             |
| 51412                                                        | SA 28 | 51327                          |                                                    | V 14                                 | 51370                                   | H 17 A                               | 51422                                   | VX 16                         |                                   |         |                             |
| 51320                                                        | M 12  | SOEMS sistema<br>rame e inox   | 51328                                              | V 15                                 | 51371                                   | H 20 A                               | 51423                                   | VX 20                         |                                   |         |                             |
| 51321                                                        | M 15  |                                | 51329                                              | V 16                                 | 51372                                   | H 26 A                               | 51424                                   | VX 25                         |                                   |         |                             |
| 51322                                                        | M 18  |                                | 51330                                              | V 18                                 | 51373                                   | H 32 A                               | 51421                                   | VX 12                         |                                   |         |                             |
| 51323                                                        | M 22  |                                | 51331                                              | V 22                                 | 51392                                   | B 16                                 | 51422                                   | VX 16                         |                                   |         |                             |
| 51324                                                        | M 28  |                                | 51332                                              | V 28                                 | 51394                                   | B 20                                 | 51423                                   | VX 20                         |                                   |         |                             |
| 51325                                                        | M 35  | SOEMS sistema<br>rame e inox   | 51333                                              | V 35                                 | 51396                                   | B 32                                 | 51424                                   | VX 25                         |                                   |         |                             |
| 51326                                                        | V 12  |                                | 51333                                              | V 35                                 | 51361                                   | H 16                                 | 51421                                   | VX 12                         |                                   |         |                             |
| 51327                                                        | V 14  |                                | 51333                                              | V 35                                 | 51362                                   | H 17                                 | 51422                                   | VX 16                         |                                   |         |                             |
| 51328                                                        | V 15  |                                | 51333                                              | V 35                                 | 51363                                   | H 18                                 | 51423                                   | VX 20                         |                                   |         |                             |
| 51329                                                        | V 16  |                                | 51333                                              | V 35                                 | 51364                                   | H 20                                 | 51424                                   | VX 25                         |                                   |         |                             |
| 51330                                                        | V 18  | SOEMS sistema<br>rame e inox   | 51333                                              | V 35                                 | 51366                                   | H 26                                 | 51421                                   | VX 12                         |                                   |         |                             |
| 51331                                                        | V 22  |                                | 51333                                              | V 35                                 | 51369                                   | H 26 A                               | 51422                                   | VX 16                         |                                   |         |                             |
| 51332                                                        | V 28  |                                | 51333                                              | V 35                                 | 51370                                   | H 17 A                               | 51423                                   | VX 20                         |                                   |         |                             |
| 51333                                                        | V 35  |                                | 51333                                              | V 35                                 | 51371                                   | H 20 A                               | 51424                                   | VX 25                         |                                   |         |                             |
| 51406                                                        | SA 12 |                                | SOEMS sistema<br>rame e inox                       | 51333                                | V 35                                    | 51372                                | H 26 A                                  | 51421                         | VX 12                             |         |                             |
| 51408                                                        | SA 15 | 51333                          |                                                    | V 35                                 | 51392                                   | B 16                                 | 51422                                   | VX 16                         |                                   |         |                             |
| 51410                                                        | SA 18 | 51333                          |                                                    | V 35                                 | 51394                                   | B 20                                 | 51423                                   | VX 20                         |                                   |         |                             |
| 51411                                                        | SA 22 | 51333                          |                                                    | V 35                                 | 51396                                   | B 32                                 | 51424                                   | VX 25                         |                                   |         |                             |
| 51412                                                        | SA 28 | 51333                          |                                                    | V 35                                 | 51361                                   | H 16                                 | 51421                                   | VX 12                         |                                   |         |                             |



| SYSTEM                              | COD.  | TYPE                    | SYSTEM                             | COD.               | TYPE                         | SYSTEM                        | COD.  | TYPE         |
|-------------------------------------|-------|-------------------------|------------------------------------|--------------------|------------------------------|-------------------------------|-------|--------------|
| Viega Prestabo                      | 51326 | V 12                    | VSH Fitting VSH KAN-therm          | 51350              | U 14                         | WeeConPress Cu Gas            | 51328 | V 15         |
|                                     | 51328 | V 15                    |                                    | 51351              | U 16                         |                               | 51330 | V 18         |
|                                     | 51330 | V 18                    |                                    | 51353              | U 20                         |                               | 51331 | V 22         |
|                                     | 51331 | V 22                    |                                    | 51354              | U 25                         |                               | 51332 | V 28         |
|                                     | 51332 | V 28                    |                                    | 51355              | U 32                         |                               | 51320 | M 12         |
|                                     | 51333 | V 35                    |                                    | 51320              | M 12                         |                               | 51321 | M 15         |
| Viega Profipress                    | 51326 | V 12                    | VSH Fitting VSH Press-Carbon       | 51322              | M 18 <sup>1)</sup>           | WeeConPress C-Stahl           | 51322 | M 18         |
|                                     | 51334 | VG 14                   | 51323                              | M 22               | 51323                        |                               | M 22  |              |
|                                     | 51328 | V 15                    | 51324                              | M 28 <sup>1)</sup> | 51324                        |                               | M 28  |              |
|                                     | 51335 | VG 16                   | 51325                              | M 35               | 51320                        |                               | M 12  |              |
|                                     | 51330 | V 18                    | 51321                              | M 15               | 51321                        |                               | M 15  |              |
|                                     | 51331 | V 22                    | VSH Fitting VSH Press-Copper       | 51322              | M 18 <sup>1)</sup>           |                               | 51322 | M 18         |
| Viega Profipress G                  | 51332 | V 28                    | 51323                              | M 22               | WeeConPress Inox             | 51323                         | M 22  |              |
|                                     | 51333 | V 35                    | 51324                              | M 28 <sup>1)</sup> |                              | 51324                         | M 28  |              |
|                                     | 51326 | V 12                    | VSH Fitting VSH Press-Copper Gas   | 51321              |                              | M 15                          | 51320 | M 12         |
|                                     | 51328 | V 15                    | 51322                              | M 18 <sup>1)</sup> |                              | 51321                         | M 15  |              |
|                                     | 51330 | V 18                    | 51323                              | M 22               |                              | 51322                         | M 18  |              |
|                                     | 51331 | V 22                    | 51324                              | M 28 <sup>1)</sup> |                              | 51323                         | M 22  |              |
| Viega Profipress S                  | 51332 | V 28                    | VSH Fitting VSH Press-Copper Solar | 51321              | M 15                         | WeeConFlex MVR                | 51341 | TH 16        |
|                                     | 51333 | V 35                    | 51322                              | M 18 <sup>1)</sup> | 51344                        |                               | TH 20 |              |
|                                     | 51326 | V 12                    | 51323                              | M 22               | 51346                        |                               | TH 26 |              |
|                                     | 51328 | V 15                    | 51324                              | M 28 <sup>1)</sup> | 51347                        |                               | TH 32 |              |
|                                     | 51330 | V 18                    | 51321                              | M 15               | 51361                        |                               | H 16  |              |
|                                     | 51331 | V 22                    | VSH Fitting VSH Press Stainless    | 51322              | M 18 <sup>1)</sup>           |                               | 51364 | H 20         |
| Viega Profipress Therm              | 51332 | V 28                    | 51323                              | M 22               | WEFA PLASTIC WEFATHERM-PRESS | 51366                         | H 26  |              |
|                                     | 51333 | V 35                    | 51324                              | M 28 <sup>1)</sup> |                              | 51367                         | H 32  |              |
|                                     | 51326 | V 12                    | 51325                              | M 35               |                              | 51361                         | H 16  |              |
|                                     | 51328 | V 15                    | VSH Fitting Xpress Carbon          | 51320              |                              | M 12                          | 51351 | U 16         |
|                                     | 51330 | V 18                    | 51321                              | M 15               |                              | 51339                         | TH 14 |              |
|                                     | 51331 | V 22                    | 51322                              | M 18 <sup>1)</sup> |                              | 51341                         | TH 16 |              |
| Viega ProPress System (USA)         | 51428 | VUS 1/2" (OD 15,88mm)   | VSH Fitting Xpress Copper          | 51321              | M 15                         | WIELAND cuprotherm CTX        | 51343 | TH 18        |
|                                     | 51429 | VUS 3/4" (OD 22,22mm)   | 51322                              | M 18 <sup>1)</sup> | 51344                        |                               | TH 20 |              |
|                                     | 51430 | VUS 1" (OD 28,58mm)     | 51323                              | M 22               | 51346                        |                               | TH 26 |              |
|                                     | 51431 | VUS 1,1/4" (OD 34,93mm) | 51324                              | M 28 <sup>1)</sup> | 51347                        |                               | TH 32 |              |
|                                     | 51397 | VP 16                   | 51321                              | M 15               | 51339                        |                               | TH 14 |              |
|                                     | 51398 | VP 20                   | 51322                              | M 18 <sup>1)</sup> | 51341                        |                               | TH 16 |              |
| Viega Sanfix Fosta                  | 51399 | VP 25                   | VSH Fitting Xpress Copper Gas      | 51323              | M 22                         | Winkler                       | 51343 | TH 18        |
|                                     | 51400 | VP 32                   | 51324                              | M 28 <sup>1)</sup> | 51344                        |                               | TH 20 |              |
|                                     | 51397 | VP 16                   | 51321                              | M 15               | 51346                        |                               | TH 26 |              |
|                                     | 51398 | VP 20                   | 51322                              | M 18 <sup>1)</sup> | 51347                        |                               | TH 32 |              |
|                                     | 51399 | VP 25                   | 51323                              | M 22               | 51339                        |                               | TH 14 |              |
|                                     | 51400 | VP 32                   | 51324                              | M 28 <sup>1)</sup> | 51341                        |                               | TH 16 |              |
| Viega Sanfix Plus                   | 51397 | VP 16                   | VSH Fitting Xpress Copper Solar    | 51321              | M 15                         | WKS-Press                     | 51342 | TH 17        |
|                                     | 51398 | VP 20                   | 51322                              | M 18 <sup>1)</sup> | 51344                        |                               | TH 20 |              |
|                                     | 51326 | V 12                    | 51323                              | M 22               | 51346                        |                               | TH 26 |              |
|                                     | 51328 | V 15                    | 51324                              | M 28 <sup>1)</sup> | 51347                        |                               | TH 32 |              |
|                                     | 51330 | V 18                    | 51321                              | M 15               | 51386                        |                               | F 16  |              |
|                                     | 51331 | V 22                    | VSH Fitting Xpress Stainless       | 51322              | M 18 <sup>1)</sup>           |                               | 51388 | F 20         |
| Viega Sampress                      | 51332 | V 28                    | 51323                              | M 22               | 51389                        | F 26                          |       |              |
|                                     | 51333 | V 35                    | 51324                              | M 28 <sup>1)</sup> | 51390                        | F 32                          |       |              |
|                                     | 51326 | V 12                    | 51325                              | M 35               | 51361                        | H 16                          |       |              |
|                                     | 51328 | V 15                    | 51351                              | U 16               | 51364                        | H 20                          |       |              |
|                                     | 51330 | V 18                    | 51352                              | U 18               | 51366                        | H 26                          |       |              |
|                                     | 51331 | V 22                    | Walter Meier Metalplast            | 51353              | U 20                         | 51367                         | H 32  |              |
| Viega Sampress Inox                 | 51332 | V 28                    | 51354                              | U 25               | XtraConnect                  | 51341                         | TH 16 |              |
|                                     | 51333 | V 35                    | 51355                              | U 32               |                              | 51344                         | TH 20 |              |
|                                     | 51326 | V 12                    | 51341                              | TH 16              |                              | 51346                         | TH 26 |              |
|                                     | 51328 | V 15                    | 51344                              | TH 20              |                              | 51347                         | TH 32 |              |
|                                     | 51330 | V 18                    | 51346                              | TH 26              |                              | 51351                         | U 16  |              |
|                                     | 51331 | V 22                    | 51347                              | TH 32              |                              | 51353                         | U 20  |              |
| Viega Sampress Inox G               | 51332 | V 28                    | Watts MTR Art press                | 51344              | TH 20                        | Zetaesse Multisttrato EUROPEX | 51354 | U 25 (NW 26) |
|                                     | 51333 | V 35                    | 51346                              | TH 26              | 51355                        |                               | U 32  |              |
|                                     | 51326 | V 12                    | 51347                              | TH 32              | 51339                        |                               | TH 14 |              |
|                                     | 51328 | V 15                    | WATTS RADIANT Watts WaterPEX       | 51417              | US 3/8"                      |                               | 51341 | TH 16        |
|                                     | 51330 | V 18                    | 51418                              | US 1/2"            | 51343                        |                               | TH 18 |              |
|                                     | 51331 | V 22                    | 51419                              | US 3/4"            | 51344                        |                               | TH 20 |              |
| Viessmann                           | 51332 | V 28                    | 51420                              | US 1"              | 51346                        | TH 26                         |       |              |
|                                     | 51333 | V 35                    | 51417                              | US 3/8"            | 51347                        | TH 32                         |       |              |
|                                     | 51326 | V 12                    | WATTS RADIANT Watts RadiantPEX     | 51418              | US 1/2"                      | 51350                         | U 14  |              |
|                                     | 51328 | V 15                    | 51419                              | US 3/4"            | 51351                        | U 16                          |       |              |
|                                     | 51330 | V 18                    | 51420                              | US 1"              | 51352                        | U 18                          |       |              |
|                                     | 51331 | V 22                    | 51351                              | U 16 (1/2")        | 51353                        | U 20                          |       |              |
| VI.Trade VI Term                    | 51341 | TH 16                   | 51353                              | U 20 (5/8")        | Zetaesse Multisttrato ISOPEX | 51350                         | U 14  |              |
|                                     | 51343 | TH 18                   | 51354                              | U 25 (3/4")        |                              | 51351                         | U 16  |              |
|                                     | 51344 | TH 20                   | 51355                              | U 32 (1")          |                              | 51352                         | U 18  |              |
|                                     | 51345 | TH 25                   | 51350                              | U 14               |                              | 51353                         | U 20  |              |
|                                     | 51347 | TH 32                   | 51351                              | U 16               |                              | 51339                         | TH 14 |              |
|                                     | 51320 | M 12                    | 51351                              | U 16               |                              | 51341                         | TH 16 |              |
| VSH Flow Control VSH C-Press        | 51321 | M 15                    | 51353                              | U 20               | 51343                        | TH 18                         |       |              |
|                                     | 51322 | M 18 <sup>1)</sup>      | 51354                              | U 25               | 51344                        | TH 20                         |       |              |
|                                     | 51323 | M 22                    | 51355                              | U 32               | 51346                        | TH 26                         |       |              |
|                                     | 51324 | M 28                    | 51356                              | U 40               | 51347                        | TH 32                         |       |              |
|                                     | 51321 | M 15                    | 51350                              | U 14               | 51350                        | U 14                          |       |              |
|                                     | 51322 | M 18 <sup>1)</sup>      | 51351                              | U 16               | 51351                        | U 16                          |       |              |
| VSH Flow Control VSH Cu-Press       | 51323 | M 22                    | 51353                              | U 20               | 51352                        | U 18                          |       |              |
|                                     | 51324 | M 28                    | 51354                              | U 25               | 51353                        | U 20                          |       |              |
|                                     | 51321 | M 15                    | 51355                              | U 32               | 51339                        | TH 14                         |       |              |
|                                     | 51322 | M 18 <sup>1)</sup>      | 51356                              | U 40               | 51341                        | TH 16                         |       |              |
|                                     | 51323 | M 22                    | 51351                              | U 16               | 51344                        | TH 20                         |       |              |
|                                     | 51324 | M 28                    | 51353                              | U 20               | 51346                        | TH 26                         |       |              |
| VSH Flow Control VSH Cu-Press Gas   | 51321 | M 15                    | 51354                              | U 25               | 51347                        | TH 32                         |       |              |
|                                     | 51322 | M 18 <sup>1)</sup>      | 51355                              | U 32               | 51350                        | U 14                          |       |              |
|                                     | 51323 | M 22                    | 51356                              | U 40               | 51351                        | U 16                          |       |              |
|                                     | 51324 | M 28                    | 51351                              | U 16               | 51352                        | U 18                          |       |              |
|                                     | 51321 | M 15                    | 51353                              | U 20               | 51353                        | U 20                          |       |              |
|                                     | 51322 | M 18 <sup>1)</sup>      | 51354                              | U 25               | 51339                        | TH 14                         |       |              |
| VSH Flow Control VSH Cu-Press Solar | 51323 | M 22                    | 51355                              | U 32               | 51341                        | TH 16                         |       |              |
|                                     | 51324 | M 28                    | 51356                              | U 40               | 51344                        | TH 20                         |       |              |
|                                     | 51321 | M 15                    | 51351                              | U 16               | 51346                        | TH 26                         |       |              |
|                                     | 51322 | M 18 <sup>1)</sup>      | 51353                              | U 20               | 51347                        | TH 32                         |       |              |
|                                     | 51323 | M 22                    | 51354                              | U 25               | 51350                        | U 14                          |       |              |
|                                     | 51324 | M 28                    | 51355                              | U 32               | 51351                        | U 16                          |       |              |
| VSH Flow Control VSH KAN-therm      | 51350 | U 14                    | 51356                              | U 40               | 51352                        | U 18                          |       |              |
|                                     | 51351 | U 16                    | 51351                              | U 16               | 51353                        | U 20                          |       |              |
|                                     | 51353 | U 20                    | 51353                              | U 20               | 51339                        | TH 14                         |       |              |
|                                     | 51354 | U 25                    | 51354                              | U 25               | 51341                        | TH 16                         |       |              |
|                                     | 51355 | U 32                    | 51355                              | U 32               | 51344                        | TH 20                         |       |              |
|                                     | 51321 | M 15                    | 51356                              | U 40               | 51346                        | TH 26                         |       |              |
| VSH Flow Control VSH S-Press        | 51322 | M 18 <sup>1)</sup>      | 51326                              | V 12               | 51347                        | TH 32                         |       |              |
|                                     | 51323 | M 22                    | 51328                              | V 15               | 51417                        | US 3/8"                       |       |              |
|                                     | 51324 | M 28                    | 51330                              | V 18               | 51418                        | US 1/2"                       |       |              |
|                                     | 51350 | U 14                    | 51331                              | V 22               | 51419                        | US 3/4"                       |       |              |
|                                     | 51351 | U 16                    | 51332                              | V 28               | 51420                        | US 1"                         |       |              |
|                                     | 51353 | U 20                    |                                    |                    |                              |                               |       |              |

**MÁQUINAS ROSCADORAS / PIPE THREADING MACHINES / FILIERES ELECTRIQUES / GEWINDESCHNEIDMASCHINEN / FILETTATRICI ELETTRICA / MÁQUINAS ROSCADORAS / РЕЗЬБОНАРЕЗНЫЕ МАШИНЫ**

**ROSCAMATIC 50 - 2**

**EQUIPO STANDARD / STANDARD EQUIPMENT / EQUIPEMENT STANDARD / STANDARDZUBEHÖR / EQUIPAGGIAMENTO STANDARD / EQUIPAMENTO STANDARD / СТАНДАРТНЫЙ КОМПЛЕКТ**

| COD.         | Icon | CAP. (inch) | W   | V                          | R.P.M. | Icon  | Icon                         | Icon | Icon | Icon | Kg |
|--------------|------|-------------|-----|----------------------------|--------|-------|------------------------------|------|------|------|----|
| <b>56950</b> | BSPT | 1/4-2       | 750 | 220-240<br>V (50-60<br>Hz) | 28     | 87850 | (2 pcs)<br>1/2-3/4",<br>1-2" | ●    | ●    | 2 L  | 73 |
| <b>56952</b> |      |             |     | 110-130<br>V (50-60<br>Hz) |        |       |                              |      |      |      |    |
| <b>56951</b> | NPT  | 1/4-2       | 750 | 220-240<br>V (50-60<br>Hz) | 28     | 87850 | (2 pcs)<br>1/2-3/4",<br>1-2" | ●    | ●    | 2 L  | 73 |
| <b>56953</b> |      |             |     | 110-130<br>V (50-60<br>Hz) |        |       |                              |      |      |      |    |



CE | 12M

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Motor Asíncrono / Condenser Motor / Moteur de Condensateur

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Tubos / Pipes / Tubes 1/4"-2"

Varilla / Rod / Boulon 10-52 mm

**REPUESTOS / SPARE PARTS / RECHANGES / ERSATZTEILE / ACCESORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

|                                                              |               |              |              |              |  |              |     |  |
|--------------------------------------------------------------|---------------|--------------|--------------|--------------|--|--------------|-----|--|
| <b>87850</b>                                                 | BSPT-NPT-BSPP |              | <b>87852</b> | METRIC       |  | <b>87853</b> | UNC |  |
| Peines no incluidos / Dies not included / Peignes non inclus |               |              |              |              |  |              |     |  |
| <b>87855</b>                                                 |               | <b>81602</b> |              | <b>64104</b> |  | <b>64131</b> | HSS |  |
| <b>88115</b>                                                 |               | <b>64002</b> |              |              |  |              |     |  |

**PEINES / DIES / PEIGNES / SCHNEIDBACKEN / PETTINI / ÇAÇONETES / ГРЕБЕНКИ**

|              |           |          |              |              |              |              |              |              |              |              |              |
|--------------|-----------|----------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>64148</b> | BSPT      | 1/4-3/8" | <b>64151</b> | BSPT (HSS)   | 1/4-3/8"     | <b>64154</b> | NPT          | 1/4-3/8"     | <b>64157</b> | NPT (HSS)    | 1/4-3/8"     |
| <b>64149</b> |           | 1/2-3/4" | <b>64152</b> |              | 1/2-3/4"     | <b>64155</b> |              | 1/2-3/4"     | <b>64158</b> |              | 1/2-3/4"     |
| <b>64150</b> |           | 1-2"     | <b>64153</b> |              | 1-2"         | <b>64156</b> |              | 1-2"         | <b>64159</b> |              | 1-2"         |
| <b>64495</b> | BSPP      | 1/4-3/8" | <b>64498</b> | BSPP (HSS)   | 1/4-3/8"     | <b>64180</b> | METRIC (HSS) | M10 x 1,5    | <b>64184</b> | METRIC (HSS) | M24-27 x 3   |
| <b>64496</b> |           | 1/2-3/4" | <b>64499</b> |              | 1/2-3/4"     | <b>64181</b> |              | M12 x 1,75   | <b>64186</b> |              | M30-33 x 3,5 |
| <b>64497</b> |           | 1-2"     | <b>64500</b> |              | 1-2"         | <b>64182</b> |              | M14-16 x 2   | <b>64187</b> |              | M36-39 x 4   |
|              |           |          |              | <b>64183</b> | M18-22 x 2,5 | <b>64188</b> |              | M42-45 x 4,5 |              |              |              |
|              |           |          |              |              |              | <b>64189</b> |              | M48-52 x 5   |              |              |              |
| <b>64770</b> | UNC (HSS) | 1/4"     | <b>64778</b> | UNC (HSS)    | 7/8"         |              |              |              |              |              |              |
| <b>64771</b> |           | 5/16"    | <b>64779</b> |              | 1"           |              |              |              |              |              |              |
| <b>64772</b> |           | 3/8"     | <b>64780</b> |              | 1.1/8"       |              |              |              |              |              |              |
| <b>64773</b> |           | 7/16"    | <b>64781</b> |              | 1.1/4"       |              |              |              |              |              |              |
| <b>64774</b> |           | 1/2"     | <b>64782</b> |              | 1.3/8"       |              |              |              |              |              |              |
| <b>64775</b> |           | 9/16"    | <b>64783</b> |              | 1.1/2"       |              |              |              |              |              |              |
| <b>64776</b> |           | 5/8"     | <b>64784</b> |              | 1.3/4"       |              |              |              |              |              |              |
| <b>64777</b> |           | 3/4"     | <b>64785</b> |              | 2"           |              |              |              |              |              |              |



**ROSCAMATIC - 2"COMBI"**

**EQUIPO STANDARD / STANDARD EQUIPMENT / EQUIPEMENT STANDARD / STANDARDZUBEHÖR / EQUIPAGGIAMENTO STANDARD / EQUIPAMENTO STANDARD / СТАНДАРТНЫЙ КОМПЛЕКТ**

| COD.  |      | CAP. (inch) | W    | V                    | R.P.M. |       |                        |   |   |   |    |
|-------|------|-------------|------|----------------------|--------|-------|------------------------|---|---|---|----|
| 56062 | BSPT | 1/2-2       | 1500 | 220-240 V (50-60 Hz) | 38     | 86900 | (2 pcs) 1/2-3/4", 1-2" | ● | ● | ● | 80 |
| 56064 |      |             |      | 110-130 V (50-60 Hz) |        |       |                        |   |   |   |    |
| 56063 | NPT  | 1/2-2       | 1500 | 220-240 V (50-60 Hz) | 38     | 86900 | (2 pcs) 1/2-3/4", 1-2" | ● | ● | ● | 80 |
| 56065 |      |             |      | 110-130 V (50-60 Hz) |        |       |                        |   |   |   |    |

CE I 12M

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Motor Univ. / Univ. Motor / Moteur Univ.

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                        |          |
|------------------------|----------|
| Tubos / Pipes / Tubes  | 1/2"-2"  |
| Varilla / Rod / Boulon | 14-39 mm |



**REPUESTOS / SPARE PARTS / RECHANGES / ERSATZTEILE / ACCESORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

| COD.  |                 |                                                             |       |
|-------|-----------------|-------------------------------------------------------------|-------|
| 86900 | BSPT-NPT-METRIC | 1/2-3/4", 1-2", M14-M16, M18-M22, M24-M27, M30-M33, M36-M39 | 1/2-2 |

Peines no incluidos / Dies not included / Peignes non inclus

|            |            |            |                 |            |            |
|------------|------------|------------|-----------------|------------|------------|
| COD. 86901 | COD. 86902 | COD. 86904 | COD. 86905  HSS | COD. 86903 | COD. 64002 |
|------------|------------|------------|-----------------|------------|------------|

**PEINES / DIES / PEIGNES / SCHNEIDBACKEN / PETTINI / CAÇONETES / ГРЕБЕНКИ**

| COD.  |            |          | COD.  |           |          | COD.         |            |              |  |  |
|-------|------------|----------|-------|-----------|----------|--------------|------------|--------------|--|--|
| 56040 | BSPT (HSS) | 1/2-3/4" | 56042 | NPT (HSS) | 1/2-3/4" | METRIC (HSS) | M14-16 x 2 | M18-22 x 2,5 |  |  |
| 56041 |            | 1-2"     | 56043 |           | 1-2"     |              |            |              |  |  |
|       |            |          |       |           |          |              |            |              |  |  |
|       |            |          |       |           |          |              |            |              |  |  |
|       |            |          |       |           |          |              |            |              |  |  |
|       |            |          |       |           |          |              |            |              |  |  |

# BE SAFE...BE EFFICIENT

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| COD.  | CAP. (inch) | Kg |   |
|-------|-------------|----|---|
| 56032 | 2-12        | 45 | 1 |

12M



CARRO DE TRANSPORTE / TRANSPORT CARRIAGE / CHARIOT DE TRANSPORT / TRANSPORTWAGEN / CARRELLO DI TRASPORTO / CARRO DE TRANSPORTE / ТРАНСПОРТНАЯ ТЕЛЕЖКА



| COD.  | Kg  |
|-------|-----|
| 56034 | 7,0 |



ACEITERA / OILER / RECIPIENT À HUILE DE COUPE / ÖLKANISTER / OLIIATORI / ALMOTOLIA / МАСЛЯНЫЙ НАСОС








| COD.  | CAP. L | Kg  |   |
|-------|--------|-----|---|
| 64130 | 5      | 3,5 | 1 |



EGGA Master  
 ART IN INNOVATION

■ ROSCAMATIC 80 - 3

■ EQUIPO STANDARD / STANDARD EQUIPMENT / EQUIPEMENT STANDARD / STANDARDZUBEHÖR / EQUIPAGGIAMENTO STANDARD / EQUIPAMENTO STANDARD / СТАНДАРТНЫЙ КОМПЛЕКТ

| COD.  |  | CAP.<br>(inch) | W    | V                          | R.P.M.                             |  |  |  |  |  |  |
|-------|-----------------------------------------------------------------------------------|----------------|------|----------------------------|------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 56955 | BSPT                                                                              | 1/2-3          | 1100 | 220-240<br>V (50-60<br>Hz) | (1/2-2") = 24 /<br>(2.1/2-3") = 12 | 87856, 87857                                                                      | (3 pcs) 1/2-3/4",<br>1-2", 2.1/2-3"                                               | ●                                                                                 | ●                                                                                 | 5 L                                                                                | 114                                                                                 |
| 56957 |                                                                                   |                |      | 110-130<br>V (50-60<br>Hz) |                                    |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
| 56956 | NPT                                                                               | 1/2-3          | 1100 | 220-240<br>V (50-60<br>Hz) | (1/2-2") = 24 /<br>(2.1/2-3") = 12 | 87856, 87857                                                                      | (3 pcs) 1/2-3/4",<br>1-2", 2.1/2-3"                                               | ●                                                                                 | ●                                                                                 | 5 L                                                                                | 114                                                                                 |
| 56958 |                                                                                   |                |      | 110-130<br>V (50-60<br>Hz) |                                    |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |



CE I 12M

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**













Motor Asíncrono / Condenser Motor / Moteur de Condensateur

Sistema de copiado de rosca / Notch profiling die head. Copy system / Entaille profilant. Le système principal de copie de matrice













**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Tubos / Pipes / Tubes 1/2"-3"

■ REPUESTOS / SPARE PARTS / RECHANGES / ERSATZTEILE / ACCESORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ

|                                                              |                                                                                     |                                                                                     |                                                                                     |                      |                                                                                     |                      |                                                                                         |                                                                                      |                                                                                       |                      |                                                                                       |                                                                                       |          |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------|
| COD.<br><b>87856</b>                                         |  |  | BSPT-NPT                                                                            | 1/2-2"               |  | 1/2-2"               | COD.<br><b>87857</b>                                                                    |  |  | BSPT-NPT             | 2.1/2-3"                                                                              |  | 2.1/2-3" |
| Peines no incluidos / Dies not included / Peignes non inclus |                                                                                     |                                                                                     |                                                                                     |                      |                                                                                     |                      |                                                                                         |                                                                                      |                                                                                       |                      |                                                                                       |                                                                                       |          |
| COD.<br><b>87858</b>                                         |  | COD.<br><b>87859</b>                                                                |  | COD.<br><b>64104</b> |  | COD.<br><b>64131</b> |  HSS | COD.<br><b>88115</b>                                                                 |  | COD.<br><b>64002</b> |  |                                                                                       |          |

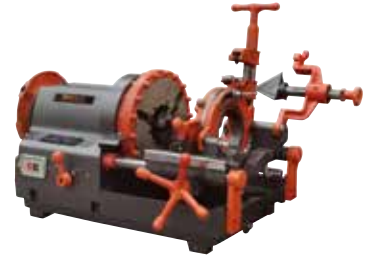
■ PEINES / DIES / PEIGNES / SCHNEIDBACKEN / PETTINI / CAÇONETES / ГРЕБЕНКИ

|                      |                                                                                     |                                                                                     |          |                      |                                                                                     |                                                                                     |          |                      |                                                                                     |                                                                                       |          |                      |                                                                                       |                                                                                       |          |
|----------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------|----------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------|----------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------|----------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------|
| COD.<br><b>64205</b> |  |  | 1/2-3/4" | COD.<br><b>64209</b> |  |  | 1/2-3/4" | COD.<br><b>64213</b> |  |  | 1/2-3/4" | COD.<br><b>64217</b> |  |  | 1/2-3/4" |
| <b>64206</b>         | BSPT                                                                                |  | 1-2"     | <b>64210</b>         | BSPT (HSS)                                                                          |  | 1-2"     | <b>64214</b>         | NPT                                                                                 |  | 1-2"     | <b>64218</b>         | NPT (HSS)                                                                             |  | 1-2"     |
| <b>64207</b>         |                                                                                     |                                                                                     | 2.1/2-3" | <b>64211</b>         |                                                                                     |                                                                                     | 2.1/2-3" | <b>64215</b>         |                                                                                     |                                                                                       | 2.1/2-3" | <b>64219</b>         |                                                                                       |                                                                                       | 2.1/2-3" |

**ROSCAMATIC 100 - 4**

**EQUIPO STANDARD / STANDARD EQUIPMENT / EQUIPEMENT STANDARD / STANDARDZUBEHÖR / EQUIPAGGIAMENTO STANDARD / EQUIPAMENTO STANDARD / СТАНДАРТНЫЙ КОМПЛЕКТ**

| COD.         |      | CAP. (inch) | W    | V                          | R.P.M.                             |                 |                                |   |   |     |     |  |
|--------------|------|-------------|------|----------------------------|------------------------------------|-----------------|--------------------------------|---|---|-----|-----|--|
| <b>56960</b> | BSPT | 1/2-4       | 1100 | 220-240<br>V (50-60<br>Hz) | (1/2-2") = 22 / (2.1/2-4")<br>= 10 | 87860,<br>87861 | 1/2-3/4",<br>1-2",<br>2.1/2-4" | ● | ● | 5 L | 128 |  |
| <b>56962</b> |      |             |      | 110-130<br>V (50-60<br>Hz) |                                    |                 |                                |   |   |     |     |  |
| <b>56961</b> | NPT  | 1/2-4       | 1100 | 220-240<br>V (50-60<br>Hz) | (1/2-2") = 22 / (2.1/2-4")<br>= 10 | 87860,<br>87861 | 1/2-3/4",<br>1-2",<br>2.1/2-4" | ● | ● | 5 L | 128 |  |
| <b>56963</b> |      |             |      | 110-130<br>V (50-60<br>Hz) |                                    |                 |                                |   |   |     |     |  |



CE I 12M

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Motor Asíncrono / Condenser Motor / Moteur de Condensateur

Sistema de copiado de rosca / Notch profiling die head. Copy system / Entaille profilant. Le système principal de copie de matrice

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                        |          |
|------------------------|----------|
| Tubos / Pipes / Tubes  | 1/2"-4"  |
| Varilla / Rod / Boulon | 10-52 mm |

**REPUESTOS / SPARE PARTS / RECHANGES / ERSATZTEILE / ACCESORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

|                       |                       |                   |                     |                  |
|-----------------------|-----------------------|-------------------|---------------------|------------------|
|                       |                       |                   |                     |                  |
| <b>87860</b> BSPT-NPT | <b>87861</b> BSPT-NPT | <b>87862</b> BSPP | <b>87864</b> METRIC | <b>87865</b> UNC |

Peines no incluidos / Dies not included / Peignes non inclus

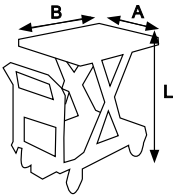
|              |              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>87867</b> | <b>87868</b> | <b>64104</b> | <b>64131</b> | <b>88115</b> | <b>64002</b> |
|--------------|--------------|--------------|--------------|--------------|--------------|

**PEINES / DIES / PEIGNES / SCHNEIDBACKEN / PETTINI / ÇAÇONETES / ГРЕБЕНКИ**

|              |            |          |              |              |              |              |              |            |              |           |              |              |           |          |
|--------------|------------|----------|--------------|--------------|--------------|--------------|--------------|------------|--------------|-----------|--------------|--------------|-----------|----------|
| <b>64205</b> | BSPT       | 1/2-3/4" | <b>64209</b> | BSPT (HSS)   | 1/2-3/4"     | <b>64213</b> | NPT          | 1/2-3/4"   | <b>64217</b> | NPT (HSS) | 1/2-3/4"     | <b>64495</b> | BSPP      | 1/4-3/8" |
| <b>64206</b> |            | 1-2"     | <b>64210</b> |              | 1-2"         | <b>64214</b> |              | 1-2"       | <b>64218</b> |           | 1-2"         | <b>64496</b> |           | 1/2-3/4" |
| <b>64208</b> |            | 2.1/2-4" | <b>64212</b> |              | 2.1/2-4"     | <b>64216</b> |              | 2.1/2-4"   | <b>64220</b> |           | 2.1/2-4"     | <b>64497</b> |           | 1-2"     |
| <b>64498</b> | BSPP (HSS) | 1/4-3/8" | <b>64180</b> | METRIC (HSS) | M10x1,5      | <b>64184</b> | METRIC (HSS) | M24-27x3   | <b>64770</b> | UNC (HSS) | 1/4"         | <b>64778</b> | UNC (HSS) | 7/8"     |
| <b>64499</b> |            | 1/2-3/4" | <b>64181</b> |              | M12x1,75     | <b>64186</b> |              | M30-33x3,5 | <b>64771</b> |           | 5/16"        | <b>64779</b> |           | 1"       |
| <b>64500</b> |            | 1-2"     | <b>64182</b> |              | M14-16x2     | <b>64187</b> |              | M36-39x4   | <b>64772</b> |           | 3/8"         | <b>64780</b> |           | 1.1/8"   |
|              |            |          | <b>64183</b> | M18-22x2,5   | <b>64188</b> | M42-45x4,5   | <b>64189</b> | M48-52x5   | <b>64773</b> | 7/16"     | <b>64781</b> | 1.1/4"       |           |          |
|              |            |          |              |              |              |              |              |            | <b>64774</b> | 1/2"      | <b>64782</b> | 1.3/8"       |           |          |
|              |            |          |              |              |              |              |              |            | <b>64775</b> | 9/16"     | <b>64783</b> | 1.1/2"       |           |          |
|              |            |          |              |              |              |              |              |            | <b>64776</b> | 5/8"      | <b>64784</b> | 1.3/4"       |           |          |
|              |            |          |              |              |              |              |              |            | <b>64777</b> | 3/4"      | <b>64785</b> | 2"           |           |          |

■ **ACCESORIOS / SPARE PARTS / RECHANGES / ZUBEHÖR / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

■ **CARRO HIDRÁULICO / HYDRAULIC TROLLEY / CHARIOT HYDRAULIQUE / HYDRAULISCHER ARBEITSWAGEN / CARRELLO IDRAULICO / CARRO HIDRAULICO / ГИДРАВЛИЧЕСКАЯ ТЕЛЕЖКА**



| COD.         | A (mm) | B (mm) | L min.-max. | CAP. (kg) |     |   |
|--------------|--------|--------|-------------|-----------|-----|---|
| <b>60184</b> | 600    | 900    | 295-1020    | 500       | 125 | 1 |

12M

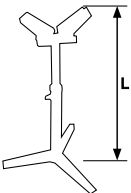


■ **CARRO MANUAL / HAND TROLLEY / CHARIOT MANUEL / HANDGESTELLTER ARBEITSWAGEN / CARRELLO MANUALE / CARRO MANUAL / РУЧНАЯ ТЕЛЕЖКА**

| COD.         | Para máquinas / For machines / Pour machines |    |   |
|--------------|----------------------------------------------|----|---|
| <b>60181</b> | ROSCAMATIC 50-2"                             | 30 | 1 |
| <b>60180</b> | ROSCAMATIC 80-3"                             | 28 |   |
| <b>60182</b> | ROSCAMATIC 100-4"                            |    |   |



■ **SOPORTE PARA TUBO / PIPE SUPPORT / SUPPORT POUR TUBE / ROHRHALTEWINKEL / SUPPORTO PER TUBI / SUPORTE PARA TUBOS / ПОДСТАВКА ДЛЯ ТРУБ**



| COD.         | L min.-max. |        |     |   |
|--------------|-------------|--------|-----|---|
| <b>60179</b> | 750-1200    | 20-190 | 5,0 | 1 |






■ **ACEITERA / OILER / RECIPIENT À HUILE DE COUPE / ÖLKANISTER / OLIIATORI / ALMOTOLIA / МАСЛЯНЫЙ НАСОС**

| COD.         |   |     |   |
|--------------|---|-----|---|
| <b>64130</b> | 5 | 3,5 | 1 |





**ACEITE DE CORTE / CUTTING OIL / HUILE DE COUPE / GEWINDESCHNEIDÖL / OLIO DATAGLIO / OLEO DE CORTE / РЕЗЬБОНАРЕЗНОЕ МАСЛО**

| COD.  |  |  |  |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 64006 | 2                                                                                 | 2,0                                                                               | 1                                                                                 |
| 64002 | 5                                                                                 | 4,5                                                                               |                                                                                   |




**CINTA DE SELLADO DE PTFE PARA ROSCAS / PTFE THREAD SEALING TAPE / BANDE DE SCELLEMENT PTFE POUR FILETAGES / PTFE GEWINDE DICHTUNGSBAND / NASTRO DI SIGILLATURA PTFE PER FILETTATURE / FITA PARA SELAR ROSCAS PTFE / ФУМ-ЛЕНТА ДЛЯ РЕЗЬБОВЫХ СОЕДИНЕНИЙ**

| COD.  | L (m) | W x H (mm) | Densidad (g/cm3) / Density (g/cm3) / Densité (g/cm3) |  |  |
|-------|-------|------------|------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 51575 | 10    | 12 x 0,075 | 0,20                                                 | 10                                                                                | 1                                                                                   |
| 51576 | 15    |            | 0,30                                                 | 15                                                                                |                                                                                     |



**MASTERMATIC - 2 PRO**

| COD.  | CAP. (inch) | W    | V                 |  |
|-------|-------------|------|-------------------|------------------------------------------------------------------------------------|
| 62441 | 2           | 1180 | 220-240 V (50 Hz) | 15                                                                                 |
| 62442 |             |      | 110-130 V (60 Hz) |                                                                                    |








CE I 12M

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

**CABEZAS DE TERRAJA:** Especialmente diseñadas con una mayor longitud para un asentamiento más preciso de los peines proporcionando una mejor rosca y más suavidad en el trabajo. / **THREADING HEADS:** Specially designed and enlarged heads providing more precise dies setting for smoother and better threading. / **FILIERES:** Les filières sont spécialement conçues pour fixer plus précisément les peignes. Il en résulte une plus grande qualité de filetage.

**SET**



| COD.  |  |  | Mastermatic 2-PRO | V                    | 1/4" | 3/8"  | 1/2"  | 3/4"  | 1"    | 1.1/4" | 1.1/2" | 2"    |  |  |  |       |       |
|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|----------------------|------|-------|-------|-------|-------|--------|--------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------|-------|
| 62443 |                                                                                     | 23                                                                                  | 62441             | 220-240 V (50-60 Hz) | -    | -     | 63003 | 63004 | 63005 | 63006  | 63008  | 63009 | 86366                                                                                 | 51649                                                                                 | 86365                                                                                 |       |       |
| 62444 | BSPT                                                                                | 24                                                                                  |                   |                      | -    | 59018 | 59019 |       |       |        |        |       |                                                                                       |                                                                                       |                                                                                       |       |       |
| 62449 |                                                                                     | 25                                                                                  |                   |                      |      |       |       |       |       |        |        |       |                                                                                       |                                                                                       |                                                                                       |       |       |
| 62464 |                                                                                     | 23                                                                                  |                   |                      |      |       |       |       |       |        |        |       |                                                                                       |                                                                                       |                                                                                       |       |       |
| 62739 | NPT                                                                                 | 24                                                                                  |                   |                      |      |       | 59020 | 59021 | 63013 | 63014  | 63015  | 63016 |                                                                                       |                                                                                       |                                                                                       | 63018 | 63019 |
| 62771 |                                                                                     | 25                                                                                  |                   |                      |      |       |       |       |       |        |        |       |                                                                                       |                                                                                       |                                                                                       |       |       |
| 62791 |                                                                                     | 23                                                                                  | 62442             | 110-130 V (50-60 Hz) | -    | -     | 63003 | 63004 | 63005 | 63006  | 63008  | 63009 | 86366                                                                                 | 51649                                                                                 | 86365                                                                                 |       |       |
| 62792 | BSPT                                                                                | 24                                                                                  |                   |                      | -    | 59018 | 59019 |       |       |        |        |       |                                                                                       |                                                                                       |                                                                                       |       |       |
| 62797 |                                                                                     | 25                                                                                  |                   |                      |      |       |       |       |       |        |        |       |                                                                                       |                                                                                       |                                                                                       |       |       |
| 62815 |                                                                                     | 23                                                                                  |                   |                      |      |       |       |       |       |        |        |       |                                                                                       |                                                                                       |                                                                                       |       |       |
| 62820 | NPT                                                                                 | 24                                                                                  |                   |                      |      |       | 59020 | 59021 | 63013 | 63014  | 63015  | 63016 |                                                                                       |                                                                                       |                                                                                       | 63018 | 63019 |
| 62827 |                                                                                     | 25                                                                                  |                   |                      |      |       |       |       |       |        |        |       |                                                                                       |                                                                                       |                                                                                       |       |       |

■ **ESTUCHE / CASE / ÉTUI / KOFFER / ASTUCCIO / CAIXA / ФУТЛЯР**

| COD.  |
|-------|
| 51649 |



■ **SOPORTE / SUPPORT / SUPPORT / HALTER / SUPPORTO / SUPORTE / ПОДСТАВКА**

| COD.  |
|-------|
| 86365 |



■ **ADAPTADOR / ADAPTER / ADAPTATEUR / VERBINDUNGSTEIL / ADATTATORE / REDUTOR / АДАПТЕР**

| COD.  |
|-------|
| 86366 |






■ **ACEITERA / OILER / RECIPIENT À HUILE DE COUPE / ÖLKANISTER / OLIATORI / ALMOTOLIA / МАСЛЯНЫЙ НАСОС**

| COD.  |  |  |  |
|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 64130 | 5                                                                                   | 3,5                                                                                 | 1                                                                                   |



■ **ACEITE DE CORTE / CUTTING OIL / HUILE DE COUPE / GEWINDESCHNEIDÖL / OLIO DATAGLIO / OLEO DE CORTE / РЕЗЬБОНАРЕЗНОЕ МАСЛО**

| COD.  |  |  |  |
|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 64006 | 2                                                                                   | 2,0                                                                                 | 1                                                                                   |
| 64002 | 5                                                                                   | 4,5                                                                                 | 1                                                                                   |



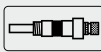




**RANURADORA HIDRÁULICA / HYDRAULIC ROLL GROOVER / RAINUREUSE HYDRAULIQUE / HYDRAULISCHE ROLLNUTMASCHINE / SCANALATORE IDRAULICO / RANHURADORA HIDRÁULICA / ГИДРАВЛИЧЕСКИЙ ЖЕЛОБОНАКАТЧИК**

**RANUMATIC "COMBI" UNIVERSAL**

CAPACIDAD DE RANURADO DE TUBOS / PIPE GROOVING CAPACITY / DIAMETRE MAXIMUM DE RAINURAGE / KAPAZITAT DER ROHRNUTEN / CAPACITA DI SCANALATURA DEL TUBO / CAPACIDADE DE RANHURAGEM DE TUBO / ПАРАМЕТРЫ ЖЕЛОБОНАКАТКИ




|                    | 2"   | 2.1/2" | 3"   | 4"  | 6"   | 8"  | 10" | 12" |                                        |
|--------------------|------|--------|------|-----|------|-----|-----|-----|----------------------------------------|
| <b>Schedule 10</b> | 2,8  | 3,0    | 3,0  | 3,4 | 3,4  | 3,8 | 4,2 | 4,6 | INOX-hasta / up to /<br>jusqu'à 4,8 mm |
| <b>Schedule 40</b> | 3,9  | 5,2    | 5,5  | 6,0 | 7,1  | 8,2 | -   | -   |                                        |
| <b>DIN 2440</b>    | 3,65 | 3,65   | 4,03 | 4,5 | 4,85 | -   | -   | -   |                                        |

**EQUIPO STANDARD / STANDARD EQUIPMENT / EQUIPEMENT STANDARD / STANDARDZUBEHÖR / EQUIPAGGIAMENTO STANDARD / EQUIPAMENTO STANDARD / СТАНДАРТНЫЙ КОМПЛЕКТ**

| COD.         | CAP. (inch) | W    | V                    | R.P.M. |  |  |  |  |  |
|--------------|-------------|------|----------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>56060</b> | 2-12        | 1500 | 220-240 V (50-60 Hz) | 38     | 56036, 56037                                                                      | ●                                                                                 | ●                                                                                 | 2 pcs.                                                                             | 110                                                                                 |
| <b>56061</b> |             |      | 110-130 V (50-60 Hz) |        |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |

CE I 12M

**REPUESTOS / SPARE PARTS / RECHANGES / ERSATZTEILE / ACCESORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

| COD.         | CAP. (inch) |   | COD.         | CAP. (inch) |  |
|--------------|-------------|------------------------------------------------------------------------------------|--------------|-------------|------------------------------------------------------------------------------------|
| <b>56036</b> | 2-6         |                                                                                    | <b>56037</b> | 8-12        |                                                                                    |
| <b>86903</b> |             |  |              |             |                                                                                    |



**SOPORTE PARA TUBO / PIPE SUPPORT / SUPPORT POUR TUBE / ROHRHALTEWINKEL / SUPPORTO PER TUBI / SUPORTE PARA TUBOS / ПОДСТАВКА ДЛЯ ТРУБ**

| COD.         |  |  |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>60176</b> | 11                                                                                  | 1                                                                                   |



**CARRO DE ROSCAR / THREADING CARRIAGE / CHARIOT DE FILETAGE / GEWINDESCHNEIDHALTER / BANCO MOTORIZZATI / CARRO DE ROSCAR / РЕЗЬБОНАРЕЗНАЯ КАРЕТКА**

| COD.         |  |  |  |  |  |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>56033</b> | BSPT                                                                                | HSS                                                                                 | 1/2-3/2, 1-2"                                                                       | ●                                                                                   | 24                                                                                    |
| <b>56052</b> | NPT                                                                                 |                                                                                     | ●                                                                                   |                                                                                     |                                                                                       |

Optional / Optional / Optionnel





**CARRO DE TRANSPORTE / TRANSPORT CARRIAGE / CHARIOT DE TRANSPORT / TRANSPORTWAGEN / CARRELLO DI TRASPORTO / CARRO DE TRANSPORTE / ТРАНСПОРТНАЯ ТЕЛЕЖКА**



COD.

56034



7,0

Optional / Optional / Optionnel



**RANURADORA MANUAL / MANUAL ROLL GROOVER / RAINUREUSE MANUELLE / MANUELLES ROLLNUTGERÄT / SCANALATRICE MANUALE / RANHURADORA MANUAL / ИНСТРУКЦИЯ ДЛЯ ЖЕЛОБОНАКАТЧИКА**

**RANUMATIC UNIVERSAL MANUAL**

CAPACIDAD DE RANURADO DE TUBOS / PIPE GROOVING CAPACITY / DIAMETRE MAXIMUM DE RAINURAGE / KAPAZITÄT DER ROHRNUTEN / CAPACITÀ DI SCANALATURA DEL TUBO / CAPACIDADE DE RANHURAGEM DE TUBO / ПАРАМЕТРЫ ЖЕЛОБОНАКАТКИ

|                    | 1.1/4" | 1.1/2" | 2"   | 2.1/2" | 3"   | 4"  | 6"   |                                        |
|--------------------|--------|--------|------|--------|------|-----|------|----------------------------------------|
| <b>Schedule 10</b> | 2,8    | 2,8    | 2,8  | 3      | 3    | 3,4 | 3,4  | INOX-hasta / up to /<br>jusqu'à 4,8 mm |
| <b>Schedule 40</b> | 3,6    | 3,4    | 3,9  | 5,2    | 5,5  | -   | -    |                                        |
| <b>DIN 2440</b>    | 3,25   | 3,25   | 3,65 | 3,65   | 4,03 | 4,5 | 4,85 |                                        |

**EQUIPO STANDARD / STANDARD EQUIPMENT / EQUIPEMENT STANDARD / STANDARDZUBEHÖR / EQUIPAGGIAMENTO STANDARD / EQUIPAMENTO STANDARD / СТАНДАРТНЫЙ КОМПЛЕКТ**

| COD.  | CAP. (inch) | W    | V                    | R.P.M. |       |   |   |        |    |
|-------|-------------|------|----------------------|--------|-------|---|---|--------|----|
| 56066 | 1.1/4-6     | 1500 | 220-240 V (50-60 Hz) | 38     | 56050 | ● | ● | 2 pcs. | 68 |
| 56067 |             |      | 110-130 V (50-60 Hz) |        |       |   |   |        |    |

CE I 12M



**REPUESTOS / SPARE PARTS / RECHANGES / ERSATZTEILE / ACCESORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

| COD.  | CAP. (inch) |  | COD.  |
|-------|-------------|--|-------|
| 56050 | 1.1/4-6     |  | 86903 |



**SOPORTE PARA TUBO / PIPE SUPPORT / SUPPORT POUR TUBE / ROHRHALTEWINKEL / SUPPORTO PER TUBI / SUPORTE PARA TUBOS / ПОДСТАВКА ДЛЯ ТРУБ**

| COD.  |    |   |
|-------|----|---|
| 60176 | 11 | 1 |



12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

**RANURADORA MANUAL / MANUAL ROLL GROOVER / RAINUREUSE MANUELLE / MANUELLES ROLLNUTGERÄT / SCANLATRICE MANUALE / RANHURADORA MANUAL / ИНСТРУКЦИЯ ДЛЯ ЖЕЛОБОНАКАТЧИКА**

| COD.         | CAP. (inch) | Kg |   |
|--------------|-------------|----|---|
| <b>56035</b> | 1.1/4-6     | 12 | 1 |

Optional / Optional / Optionnel



**CARRO DE TRANSPORTE / TRANSPORT CARRIAGE / CHARIOT DE TRANSPORT / TRANSPORTWAGEN / CARRELLO DI TRASPORTO / CARRO DE TRANSPORTE / ТРАНСПОРТНАЯ ТЕЛЕЖКА**



| COD.         | Kg  |
|--------------|-----|
| <b>56034</b> | 7,0 |

Optional / Optional / Optionnel



**SIERRA ELECTROPORTÁTIL / RECIPROCATING SAW / SCIE SABRE UNIVERSELLE / TRAGBARE ELEKTROSÄGE / SEGHETO ELETRICO / SERRA ELECTRO PORTATIL / САБЕЛЬНАЯ ПИЛА**



| COD.         | CAP. | W   | R.P.M. | V                    | Kg  |
|--------------|------|-----|--------|----------------------|-----|
| <b>60216</b> | 90   | 750 | 2500   | 220-240 V (50-60 Hz) | 5,0 |

CE | 12M



**CURVATUBOS HIDRÁULICO / HYDRAULIC PIPE BENDER / CINTREUSE HYDRAULIQUE / HYDRAULIK-ROHRBIEGER / CURVATUBI IDRAULICO / CURVADORAS**  
**HYDRAULICAS PARA TUBOS / ГИДРАВЛИЧЕСКИЙ ТРУБОГИБ**

TUBO API NORM / API NORM PIPE / TUBE API NORM

| O.D.<br>inch | Válido para /<br>Valid for /<br>Valable pour | I.D.<br>mm | Schedule 10 |       | Schedule 40 |       | Schedule 80 |                 | Schedule 160    |    |
|--------------|----------------------------------------------|------------|-------------|-------|-------------|-------|-------------|-----------------|-----------------|----|
|              |                                              |            | mm          | mm    | mm          | mm    | mm          | mm              | mm              | mm |
| 1/4          |                                              | 0,41       | 0,065       | 0,364 | 0,088       | 0,302 | 0,119       | No standardized | No standardized |    |
| 3/8          |                                              | 0,545      | 0,083       | 0,493 | 0,091       | 0,423 | 0,126       |                 |                 |    |
| 1/2          |                                              | 0,674      |             | 0,622 | 0,19        | 0,546 | 0,147       | 0,466           | 0,187           |    |
| 3/4          |                                              | 0,884      |             | 0,824 | 0,113       | 0,742 | 0,154       | 0,614           | 0,218           |    |
| 1            |                                              | 1,097      |             | 1,049 | 0,133       | 0,957 | 0,179       | 0,815           |                 |    |
| 1.1/4        |                                              | 1,442      | 0,109       | 1,38  | 0,14        | 1,278 | 0,191       | 1,16            | 0,25            |    |
| 1.1/2        |                                              | 1,682      |             | 1,61  | 0,145       | 1,5   | 0,2         | 1,338           | 0,281           |    |
| 2            |                                              | 2,157      |             | 2,067 | 0,154       | 1,939 | 0,218       | 1,689           | 0,343           |    |
| 2.1/2        | Curvomatic 3                                 | 2,63       | 0,12        | 2,47  | 0,203       | -     | -           | -               | -               |    |
| 3            |                                              | 3,26       |             | 3,07  | 0,216       |       |             |                 |                 |    |

Sólo para Curvomatic 3 / Only for Curvomatic 3 / Seulement pour Curvomatic 3

TUBO DE ACERO DIN-2440 / DIN-2440 STEEL PIPE / TUBE D'ACIER DIN-2440

| O.D.<br>inch | Válido para<br>Valid for<br>Valable pour | I.D.<br>mm | mm   |
|--------------|------------------------------------------|------------|------|
| 1/4          |                                          | 13         |      |
| 3/8          |                                          | 17         | 2,35 |
| 1/2          |                                          | 21         |      |
| 3/4          |                                          | 27         | 2,65 |
| 1            |                                          | 34         |      |
| 1.1/4        |                                          | 42         | 3,25 |
| 1.1/2        |                                          | 48         |      |
| 2            |                                          | 60         |      |
| 2.1/2        | Curvomatic 3                             | 76         | 3,65 |
| 3            |                                          | 89         | 4,05 |

Sólo para Curvomatic 3 / Only for Curvomatic 3 / Seulement pour Curvomatic 3

**CURVAMATIC CON MEDIDOR ANGULAR / CURVAMATIC WITH ANGLE MEASURER / CURVAMATIC AVEC INDICATEUR ANGULAIRE / BIEGEGERÄT MIT WINKELMESSER / CURVATUBI CON MISURATORE ANGOLARE / CURVAMATIC COM MEDIDOR DE ÂNGULO / ТРУБОГИБ CURVAMATIC С ГРАДУСНОЙ ШКАЛОЙ**

| COD.  | Mod.         | O.D.<br>inch | TONS. | Kg  |   |
|-------|--------------|--------------|-------|-----|---|
| 56947 | CURVAMATIC 2 | 1/4-2        | 10    | 75  |   |
| 56948 | CURVAMATIC 3 | 1/4-3        | 13    | 110 | 1 |

12M

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Máximo grado de curvatura 90°, dos velocidades y acción rápida / Maximum degree of curvature 90°, two speeds and quick action / Degré de courbure maximal 90°, deux vitesses et action rapide



**CURVAMATIC**

| COD.  | Mod.         | O.D.<br>inch | TONS. | Kg  |   |
|-------|--------------|--------------|-------|-----|---|
| 60015 | CURVAMATIC 2 | 1/4-2        | 10    | 64  |   |
| 60016 | CURVAMATIC 3 | 1/4-3        | 13    | 110 | 1 |

CE | 12M

Su especial e innovador sistema de válvula 2-VELO permite de forma automática una rápida aproximación así como un suave curvado sin necesidad de cambiar de pistón. / The special and innovative 2-VELO valve system enables fast pre-loading as well as a soft bending without any need to change pistons. / Son système spécial et innovateur de clapet 2-VELO permet un réglage automatique et progressif, sans avoir besoin de changer de piston.

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Máximo grado de curvatura 90°, dos velocidades y acción rápida / Maximum degree of curvature 90°, two speeds and quick action / Degré de courbure maximal 90°, deux vitesses et action rapide



12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

Si no encuentra el artículo que necesita, consúltenos en [consulta@egamaster.com](mailto:consulta@egamaster.com) o en [www.egamaster.com](http://www.egamaster.com)  
 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
 Si vous ne trouvez pas l'article que vous desirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)

**ACCESORIOS INCLUIDOS / INCLUDED SPARE PARTS / ACCESSOIRES INCLUS / EINSCHLIESSLICH ERSATZTEILE / ACCESSORI INCLUSI / ACESSÓRIOS INCLUIDOS / С ЗАПАСНЫМИ ЧАСТЯМИ**

| COD.  | O.D.<br>inch  | R<br>(mm) | Kg  |   |
|-------|---------------|-----------|-----|---|
| 64190 | 1/4, 3/8, 1/2 | 86        | 0,8 | 1 |
| 64191 | 3/4           | 108       | 1,1 |   |
| 64192 | 1             | 135       |     |   |
| 64193 | 1.1/4         | 170       | 2,4 |   |
| 64194 | 1.1/2         | 193       | 3,0 |   |
| 64195 | 2             | 242       | 5,0 |   |
| 64231 | 2.1/2         | 303       | 16  |   |
| 64232 | 3             | 358       | 22  |   |



**BOMBAS DE COMPROBACIÓN / TESTING PUMPS / POMPES D'EPREUVE / PRÜFPUMPE / POMPE PROVA IMPIANTI / BOMBAS DE COMPROVAÇÃO / ОПРЕССОВЩИК ГИДРАВЛИЧЕСКИЙ**

| COD.  | CAP. L | Máx.<br>bar  | Conex. (inch) | L x W x H (mm) | Kg  |   |
|-------|--------|--------------|---------------|----------------|-----|---|
| 60005 | 12     | 60=860 Psi   | 1/2           | 500x180x275    | 7,7 | 1 |
| 60009 |        | 100=1440 Psi |               |                |     |   |

12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                                                                                              |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| Sistema de ajuste de presión rápido por medio de una sola válvula / Quick pressure adjust system with just one valve / Système rapide de réglage de la pression au moyen d'une seule valvule | • |
| Máxima estabilidad / Maximum stability / Stabilité maximale                                                                                                                                  | • |
| Capacidad 12 l. / Capacity 12 l. / Capacité 12 l.                                                                                                                                            | • |
| Manómetro de fácil lectura / Easy-reading manometer / Manomètre à lecture facile                                                                                                             | • |
| Incluye manguera de presión / Pressure hose included / Tuyau de pression inclus                                                                                                              | • |
| Uso cómodo / Comfortable use / Utilisation pratique                                                                                                                                          | • |



| COD.  | CAP. L | Máx.<br>bar  | Conex. (inch) | L x W x H (mm) | Kg  |   |
|-------|--------|--------------|---------------|----------------|-----|---|
| 60011 | 12     | 60=860 Psi   | 1/2           | 500x180x275    | 7,7 | 1 |
| 60012 |        | 100=1440 Psi |               |                |     |   |

12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                                                                                              |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| Sistema de ajuste de presión rápido por medio de una sola válvula / Quick pressure adjust system with just one valve / Système rapide de réglage de la pression au moyen d'une seule valvule | • |
| Máxima estabilidad / Maximum stability / Stabilité maximale                                                                                                                                  | • |
| Capacidad 12 l. / Capacity 12 l. / Capacité 12 l.                                                                                                                                            | • |
| Manómetro de fácil lectura / Easy-reading manometer / Manomètre à lecture facile                                                                                                             | • |
| Incluye manguera de presión / Pressure hose included / Tuyau de pression inclus                                                                                                              | • |
| Uso cómodo / Comfortable use / Utilisation pratique                                                                                                                                          | • |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero inoxidable / Stainless steel / Acier inoxydable

**MASTERPUMP**

**ELÉCTRICA / ELECTRIC / ELECTRIQUE / ELEKTRISCH / ELETRICA / ELÉTRICO / ЭЛЕКТРИЧЕСКИЙ**

| COD.  | CAP. (L/min.) | W   | V                    | Máx.<br>bar | Conex. (inch) | Kg |   |
|-------|---------------|-----|----------------------|-------------|---------------|----|---|
| 56077 | 8             | 600 | 220-240 V (50-60 Hz) | 60=860 Psi  | 1/2           | 12 | 1 |
| 56078 |               |     | 110-130 V (50-60 Hz) |             |               |    |   |

CE | 12M



20

**INSPECCIÓN Y DESATASCADORES**  
**DRAIN CLEANING AND INSPECTION**  
**INSPECTION ET DEBOUCHEURS**  
**ROHRINSPEKTION**  
**STURATUBI E ISPEZIONE**  
**INSPEÇÃO E DESENTUPIDORES**  
**ПРОЧИСТНАЯ ТЕХНИКА И ВИДЕОДИАГНОСТИКА**



**Ega Master es el fabricante mundial con mayor gama de desatascadores que permiten trabajar desde redes domésticas hasta grandes instalaciones.**

*Ega Master is the manufacturer in the world with the biggest range of pipe and drain cleaners which enables the user to work on small home pipes as well as on big facilities.*

**Ega Master est le fabricant avec le plus grande gamme au monde de déboucheurs, qui permettent le travail du réseau domestique aux grandes installations.**

| Ø de tubo / Pipe Ø / Ø de tube |    |    |       |     |     |     |       |     |     |     |     |     |     |
|--------------------------------|----|----|-------|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|
| 0                              | 20 | 50 | 100   | 150 | 200 | 250 | 300   | 350 | 400 | 450 | 500 | 550 | 600 |
|                                |    |    | 60290 |     |     |     |       |     |     |     |     |     |     |
|                                |    |    | 60292 |     |     |     |       |     |     |     |     |     |     |
|                                |    |    | 60296 |     |     |     |       |     |     |     |     |     |     |
|                                |    |    | 60040 |     |     |     |       |     |     |     |     |     |     |
|                                |    |    | 60282 |     |     |     |       |     |     |     |     |     |     |
|                                |    |    | 60284 |     |     |     |       |     |     |     |     |     |     |
|                                |    |    |       |     |     |     | 60286 |     |     |     |     |     |     |
|                                |    |    | 60288 |     |     |     |       |     |     |     |     |     |     |

**1**

Todos los desatascadores EGA Master tienen los elementos necesarios para un uso ergonómico y cómodo.

*All the EGA Master pipe cleaners have the necessary elements to ensure an ergonomic and comfortable use.*

Tous les déboucheurs EGA Master sont dotés d'éléments nécessaires à l'ergonomie et au confort d'utilisation.

**2**

El tubo protector permite un uso seguro sin ningún daño para el usuario profesional.

*Protection tube enables professional users to have a safe use without any damage.*

Le tube protecteur permet un usage sûr sans aucun risque de blessure pour l'utilisateur professionnel.

**3**

Se han diseñado pensando en todos los detalles, hasta los soportes plásticos para evitar dañar el suelo.

*They have been designed taking into account all the details, even the plastic stands to avoid damaging the floor.*

Ils ont été dessinés en pensant à tous les détails, jusqu'aux supports plastiques, pour éviter d'abîmer le sol.



**4**

La amplia gama de desatascadores EGA Master comprende punteras desde 16 mm hasta 30 mm para cualquier trabajo.

*The wide range of EGA Master pipe cleaners has different drill sizes from 16mm up to 30mm for any work.*

La grande gamme de déboucheurs EGA Master comprend des embouts de 16mm à 30mm pour tous les travaux.



Los distintos tipos de punteras se adaptan a cualquier tipo de trabajo de mantenimiento de redes.



*The different type of drills are valid for any pipe or drain cleaning operation.*



Les différents types d'embouts sont adaptés à tous types de travaux de maintenance de réseau.



Cada máquina incluye los equipos de seguridad necesarios.

*Each machine includes all necessary safety equipment.*

Chaque machine est vendue avec l'équipement de sécurité nécessaire.



Disponibles equipos a batería para trabajo cómodo e independiente del suministro eléctrico.

*Models with battery are available for comfortable use.*

Des équipements à batterie sont disponibles pour un travail aisé et non tributaire du réseau électrique.



■ DESATASCADORES / PIPE CLEANERS / DEBOUCHEURS / ROHRREINIGUNGSGERÄTE / STURATUBI / DESENTUPIDORES / ПРОЧИСТНЫЕ МАШИНЫ

■ DESATASCADOR DE TAMBOR / PIPE CLEANER / DÉBOUCHEUR À TAMBOUR / ELEKTROHRREINIGUNGSGERÄT / STURATUBI A TAMBURO / DESENTUPIDOR DE TAMBOR / ПРОЧИСТНАЯ МАШИНА

| COD.  | L (m) | O.D. mm | g   | Icon |
|-------|-------|---------|-----|------|
| 69500 | 4,6   | 11      | 750 | 6    |



■ DESATASCADOR DE MUELLE / SPRING PIPE CLEANER / RESSORT À DÉBOUCHER / ROHRREINIGUNGSGERÄT / NETTATUBI / DESENTUPIDOR DE MOLA / СПИРАЛЬНАЯ ПРОЧИСТНАЯ МАШИНА


| COD.  | L (m) | O.D. mm | g    | Icon |
|-------|-------|---------|------|------|
| 69505 | 3     | 5       | 350  | 10   |
| 69506 | 5     |         | 1400 |      |
| 69507 | 10    | 24      | 2500 | 5    |



|                                    | Ø (mm)                              | CAP. (mm) |
|------------------------------------|-------------------------------------|-----------|
| <b>Drainmatic Handy 75</b>         |                                     |           |
| <b>Drainmatic Handy 75 Auto</b>    | 8 (muelle / spring / ressort)       | Ø20-Ø75   |
| <b>Drainmatic Portable 75 Auto</b> |                                     |           |
| <b>Drainmatic 100</b>              | 8-16 (muelle / spring / ressort)    | Ø20-Ø100  |
| <b>Drainmatic MAX 110</b>          | 12,5 (muelle / spring / ressort)    | Ø20-Ø110  |
| <b>Drainmatic MAX 150</b>          | 8-16-22 (muelle / spring / ressort) | Ø20-Ø150  |
| <b>Drainmatic MAX 200</b>          | 30 (muelle / spring / ressort)      | Ø50-Ø200  |
| <b>Drainmatic MAX 600</b>          | 8 x 22 (varilla / rod / baguette)   | Ø200-Ø600 |



### ■ DRAINMATIC HANDY 75

| COD.         | V | W                    | R.P.M. | CAP. (mm) |  |    |
|--------------|---|----------------------|--------|-----------|-------------------------------------------------------------------------------------|----|
| <b>60290</b> | * | 220-240 V (50-60 Hz) | 600    | 0-550     | Ø 20-75                                                                             | 11 |
| <b>60291</b> |   | 110-130 V (50-60 Hz) |        |           |                                                                                     |    |

\* : Incluye accesorios / Accessories included / Accessoires inclus

CE I 12M



#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                                                                                                     |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Capacidad tubo / Pipe capacity / Capacité de tube                                                                                                                                                                   | Ø 20-75 mm |
| Máxima longitud / Max. Length / Longueur max.                                                                                                                                                                       | 7,6 m      |
| Ø Cabeza muelle / Spring head Ø / Ø Tête ressort                                                                                                                                                                    | Ø 15 mm    |
| Ø Muelle / Ø Spring / Ø Diamètre de ressort                                                                                                                                                                         | Ø 8 mm     |
| Velocidad de giro / Turning speed / Vitesse de rotation                                                                                                                                                             | 0-550 rpm  |
| Interruptor de cambio de sentido de giro / Turning way selector switch / Bouton de changement de sens de rotation                                                                                                   | ●          |
| Agarre ergonómico / Ergonomic grip / Prise ergonomique                                                                                                                                                              | ●          |
| Tambor de cable en 2 piezas metálicas resistentes al impacto y corrosión / 2 piece spring canister resistant to impact and corrosion / Tambour de câble en 2 pièces métalliques résistant au choc et à la corrosion | ●          |
| Ligero y fácil de usar / Lightweight and easy-to-use / Léger et facile à utiliser                                                                                                                                   | ●          |
| Peso en uso / Working weight / Poids en travail                                                                                                                                                                     | 6,0 Kg     |
| Potencia / Power / Puissance                                                                                                                                                                                        | 600 W      |



### ACCESORIOS INCLUIDOS / INCLUDED SPARE PARTS / ACCESSOIRES INCLUS / EINSCHLIESSLICH ERSATZTEILE / ACCESSORI INCLUSI / ACESSÓRIOS INCLUIDOS / С ЗАПАСНЫМИ ЧАСТЯМИ

| COD.         | L x W x H (mm)  |  |
|--------------|-----------------|-------------------------------------------------------------------------------------|
| <b>64648</b> | 550 x 245 x 250 | 4,0                                                                                 |



#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                  |       |
|----------------------------------|-------|
| Capacidad / Capacity / Capacité  | 20 kg |
| Elementos / Compartments / Cases | 1     |


| COD.         |  | L (m) |  | Válido para / Valid for / Valable pour |
|--------------|-------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|----------------------------------------|
| <b>85114</b> | 8                                                                                   | 7,6   | 1,8                                                                                 | 60290, 60291, 60292, 60293             |



# BE SAFE...BE EFFICIENT



## ■ DRAINMATIC HANDY 75 AUTO

| COD.         | V                      | W   | R.P.M. | CAP. (mm) |  |
|--------------|------------------------|-----|--------|-----------|-------------------------------------------------------------------------------------|
| <b>60292</b> | * 220-240 V (50-60 Hz) | 600 | 0-550  | Ø 20-75   | 11                                                                                  |
| <b>60293</b> | 110-130 V (50-60 Hz)   |     |        |           |                                                                                     |

\* : Incluye accesorios / Accessories included / Accessoires inclus


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### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES



|                                                                                                                                                                                                                     |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Avance de muelle automático / Automatic spring advance / Avance du ressort automatique                                                                                                                              | ●          |
| Velocidad de avance de muelle / Spring advance speed / Vitesse d'avance du ressort                                                                                                                                  | 5 m/min    |
| Capacidad tubo / Pipe capacity / Capacité de tube                                                                                                                                                                   | Ø 20-75 mm |
| Máxima longitud / Max. Length / Longueur max.                                                                                                                                                                       | 7,6 m      |
| Ø Cabeza muelle / Spring head Ø / Ø Tête ressort                                                                                                                                                                    | Ø 15 mm    |
| Ø Muelle / Ø Spring / Ø Diamètre de ressort                                                                                                                                                                         | Ø 8 mm     |
| Velocidad de giro / Turning speed / Vitesse de rotation                                                                                                                                                             | 0-550 rpm  |
| Interruptor de cambio de sentido de giro / Turning way selector switch / Bouton de changement de sens de rotation                                                                                                   | ●          |
| Agarre ergonómico / Ergonomic grip / Prise ergonomique                                                                                                                                                              | ●          |
| Tambor de cable en 2 piezas metálicas resistentes al impacto y corrosión / 2 piece spring canister resistant to impact and corrosion / Tambour de câble en 2 pièces métalliques résistant au choc et à la corrosion | ●          |
| Ligero y fácil de usar / Lightweight and easy-to-use / Léger et facile à utiliser                                                                                                                                   | ●          |
| Peso en uso / Working weight / Poids en travail                                                                                                                                                                     | 6,0 Kg     |
| Potencia / Power / Puissance                                                                                                                                                                                        | 600 W      |

### ACCESORIOS INCLUIDOS / INCLUDED SPARE PARTS / ACCESSOIRES INCLUS / EINSCHLIESSLICH ERSATZTEILE / ACCESSORI INCLUSI / ACESSÓRIOS INCLUIDOS / С ЗАПАСНЫМИ ЧАСТЯМИ

| COD.         | L x W x H (mm)  |  |
|--------------|-----------------|-------------------------------------------------------------------------------------|
| <b>64648</b> | 550 x 245 x 250 | 4,0                                                                                 |

### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES


|                                  |       |
|----------------------------------|-------|
| Capacidad / Capacity / Capacité  | 20 kg |
| Elementos / Compartments / Cases | 1     |

| COD.         |  | L (m) |  | Válido para / Valid for / Valable pour |
|--------------|-------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|----------------------------------------|
| <b>85114</b> | 8                                                                                   | 7,6   | 1,8                                                                                 | 60290, 60291, 60292, 60293             |

| COD.         | Velocidad m/min. / Speed m/min. / Vitesse m/min. |  | Válido para / Valid for / Valable pour |
|--------------|--------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------|
| <b>83694</b> | 5                                                | 0,5                                                                                 | 60292, 60293                           |



### ■ DRAINMATIC PORTABLE 75 AUTO

| COD.         | V                      | W   | R.P.M. | CAP. (mm)  |  |
|--------------|------------------------|-----|--------|------------|-------------------------------------------------------------------------------------|
| <b>60296</b> | * 220-240 V (50-60 Hz) | 600 | 0-450  | Ø 20-75 mm | 11                                                                                  |
| <b>60297</b> | 110-130 V (50-60 Hz)   |     |        |            |                                                                                     |

\* : Incluye accesorios / Accessories included / Accessoires inclus


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#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES


|                                                                                                                                                                                                                     |                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Avance de muelle automático / Automatic spring advance / Avance du ressort automatique                                                                                                                              | ●                 |
| Velocidad de avance de muelle / Spring advance speed / Vitesse d'avance du ressort                                                                                                                                  | 5 m/min           |
| Capacidad tubo / Pipe capacity / Capacité de tube                                                                                                                                                                   | Ø 20-75 mm        |
| Máxima longitud / Max. Length / Longueur max.                                                                                                                                                                       | 6 m               |
| Ø Cabeza muelle / Spring head Ø / Ø Tête ressort                                                                                                                                                                    | Ø 15 mm           |
| Ø Muelle / Ø Spring / Ø Diamètre de ressort                                                                                                                                                                         | Ø 8mm             |
| Velocidad de giro / Turning speed / Vitesse de rotation                                                                                                                                                             | 0-450 rpm         |
| Interruptor de cambio de sentido de giro / Turning way selector switch / Bouton de changement de sens de rotation                                                                                                   | ●                 |
| Agarre ergonómico / Ergonomic grip / Prise ergonomique                                                                                                                                                              | ●                 |
| Tambor de cable en 2 piezas metálicas resistentes al impacto y corrosión / 2 piece spring canister resistant to impact and corrosion / Tambour de câble en 2 pièces métalliques résistant au choc et à la corrosion | ●                 |
| Ligero y fácil de usar / Lightweight and easy-to-use / Léger et facile à utiliser                                                                                                                                   | ●                 |
| Peso en uso / Working weight / Poids en travail                                                                                                                                                                     | 6,0 kg            |
| Potencia / Power / Puissance                                                                                                                                                                                        | 600 W             |
| Batería Ni-mh / Battery Ni-mh / Batterie Ni-mh                                                                                                                                                                      | 14,4 V - 2400 mAh |

### ACCESORIOS INCLUIDOS / INCLUDED SPARE PARTS / ACCESSOIRES INCLUS / EINSCHLIESSLICH ERSATZTEILE / ACCESSORI INCLUSI / ACESSÓRIOS INCLUIDOS / С ЗАПАСНЫМИ ЧАСТЯМИ


| COD.         | L x W x H (mm)  |  |
|--------------|-----------------|-------------------------------------------------------------------------------------|
| <b>64648</b> | 550 x 245 x 250 | 4,0                                                                                 |


#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                  |       |
|----------------------------------|-------|
| Capacidad / Capacity / Capacité  | 20 kg |
| Elementos / Compartments / Cases | 1     |

| COD.         |  | L (m) |  | Válido para / Valid for / Valable pour |
|--------------|-------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|----------------------------------------|
| <b>85115</b> | 8                                                                                   | 6     | 1,4                                                                                 | 60296, 60297                           |


| COD.         | Velocidad m/min. / Speed m/min. / Vitesse m/min. |  | Válido para / Valid for / Valable pour |
|--------------|--------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------|
| <b>83694</b> | 5                                                | 0,5                                                                                 | 60292, 60293                           |

| COD.         | V    |  | Válido para / Valid for / Valable pour |
|--------------|------|-------------------------------------------------------------------------------------|----------------------------------------|
| <b>83696</b> | 14,4 | 0,8                                                                                 | 60296, 60297                           |

| COD.         | V                    |  | Válido para / Valid for / Valable pour |
|--------------|----------------------|-------------------------------------------------------------------------------------|----------------------------------------|
| <b>64649</b> | 220-240 V (50-60 Hz) | 1,2                                                                                 | 60296, 60297                           |
| <b>64650</b> | 110-130 V (50-60 Hz) |                                                                                     |                                        |



## ■ DRAINMATIC 100

| COD.         | V | CAP. (mm)            | W        | R.P.M. |  |    |
|--------------|---|----------------------|----------|--------|-------------------------------------------------------------------------------------|----|
| <b>60040</b> | * | 220-240 V (50-60 Hz) | Ø 20-100 | 390    | 400                                                                                 | 32 |

\*: Incluye accesorios / Accessories included / Accessoires inclus















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### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES


|                                                                                                                                                                                                                     |             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Capacidad tubo / Pipe capacity / Capacité de tube                                                                                                                                                                   | Ø 20-100 mm |
| Longitud de muelle suministrada / Supplied spring length / Longueur du ressort fournie                                                                                                                              | 20 m        |
| Máxima longitud / Max. Length / Longueur max.                                                                                                                                                                       | 30 m        |
| Ø Muelle / Ø Spring / Ø Diamètre de ressort                                                                                                                                                                         | Ø 8-16 mm   |
| Velocidad de giro / Turning speed / Vitesse de rotation                                                                                                                                                             | 400 rpm     |
| Interruptor de cambio de sentido de giro / Turning way selector switch / Bouton de changement de sens de rotation                                                                                                   | ●           |
| Agarre ergonómico / Ergonomic grip / Prise ergonomique                                                                                                                                                              | ●           |
| Guantes incluidos / Gloves included / Gants inclus                                                                                                                                                                  | ●           |
| Tambor de cable en 2 piezas metálicas resistentes al impacto y corrosión / 2 piece spring canister resistant to impact and corrosion / Tambour de câble en 2 pièces métalliques résistant au choc et à la corrosion | ●           |
| Máxima estabilidad / Maximum stability / Stabilité maximale                                                                                                                                                         | ●           |
| Ligero y fácil de usar / Lightweight and easy-to-use / Léger et facile à utiliser                                                                                                                                   | ●           |
| Peso en uso / Working weight / Poids en travail                                                                                                                                                                     | 12 kg       |
| Potencia / Power / Puissance                                                                                                                                                                                        | 390 W       |



### ACCESORIOS INCLUIDOS / INCLUDED SPARE PARTS / ACCESSOIRES INCLUS / EINSCHLIESSLICH ERSATZTEILE / ACCESSORI INCLUSI / ACESSÓRIOS INCLUIDOS / С ЗАПАСНЫМИ ЧАСТЯМИ

| COD.         |  | L (mm) | L (m) |  |                                                                                       |
|--------------|-------------------------------------------------------------------------------------|--------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>85104</b> | 8                                                                                   | -      | 4,5   | 2350                                                                                  |  |
| <b>64240</b> |                                                                                     | 135    |       | 70                                                                                    |  |
| <b>64241</b> |                                                                                     |        |       | 50                                                                                    |  |
| <b>64242</b> |                                                                                     | 100    |       | 70                                                                                    |  |
| <b>64249</b> |                                                                                     | 85     |       | 85                                                                                    |  |
| <b>64243</b> |                                                                                     | 35     |       | 32                                                                                    |  |
| <b>64244</b> | 16                                                                                  | 28     |       | 35                                                                                    |  |
| <b>64245</b> |                                                                                     | 37     |       | 25                                                                                    |  |
| <b>64246</b> |                                                                                     | 40     |       |                                                                                       |  |
| <b>64248</b> |                                                                                     |        | 20    | 9750                                                                                  |  |
| <b>64624</b> |                                                                                     |        |       | 100                                                                                   |  |
| <b>85103</b> | 16                                                                                  |        | 2,5   | 1200                                                                                  |  |

### ■ DRAINMATIC MAX 150

| COD.         | V | CAP. (mm)            | W   | R.P.M. |  |
|--------------|---|----------------------|-----|--------|-------------------------------------------------------------------------------------|
| <b>60282</b> | * | 220-240 V (50-60 Hz) | 390 | 400    | 51                                                                                  |
| <b>60283</b> |   | 110-130 V (50-60 Hz) |     |        |                                                                                     |



















\*: Incluye accesorios / Accessories included / Accessoires inclus

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| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                                          |              |
|-------------------------------------------------------------------------------------------------------------------|--------------|
| Capacidad tubo / Pipe capacity / Capacité de tube                                                                 | Ø 20-150 mm  |
| Longitud de muelle suministrada / Supplied spring length / Longueur du ressort fournie                            | 15 m         |
| Máxima longitud / Max. Length / Longueur max.                                                                     | 30 m         |
| Ø Muelle / Ø Spring / Ø Diamètre de ressort                                                                       | Ø 8-16-22 mm |
| Velocidad de giro / Turning speed / Vitesse de rotation                                                           | 400 rpm      |
| Interruptor de cambio de sentido de giro / Turning way selector switch / Bouton de changement de sens de rotation | ●            |
| Agarre ergonómico / Ergonomic grip / Prise ergonomique                                                            | ●            |
| Guantes incluidos / Gloves included / Gants inclus                                                                | ●            |
| Tubo de seguridad incluido / Safe tube included / Tube de sécurité inclus                                         | ●            |
| Máxima estabilidad / Maximum stability / Stabilité maximale                                                       | ●            |
| Ligero y fácil de usar / Lightweight and easy-to-use / Léger et facile à utiliser                                 | ●            |
| Peso en uso / Working weight / Poids en travail                                                                   | 16 Kg        |
| Potencia / Power / Puissance                                                                                      | 390 W        |

### ACCESORIOS INCLUIDOS / INCLUDED SPARE PARTS / ACCESSOIRES INCLUS / EINSCHLIESSLICH ERSATZTEILE / ACCESSORI INCLUSI / ACESSÓRIOS INCLUIDOS / С ЗАПАСНЫМИ ЧАСТЯМИ

| COD.         |  | L (mm) | L (m) |  |  |
|--------------|-------------------------------------------------------------------------------------|--------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>85100</b> | 8                                                                                   | -      | 4,5   | 2350                                                                                  |  |
| <b>64240</b> | 16                                                                                  | 135    | 15    | 70                                                                                    |  |
| <b>64241</b> |                                                                                     | 85     |       | 50                                                                                    |  |
| <b>64249</b> |                                                                                     | 35     |       | 85                                                                                    |  |
| <b>64243</b> | 22                                                                                  | 190    | 4     | 32                                                                                    |  |
| <b>64628</b> |                                                                                     | 140    |       | 165                                                                                   |  |
| <b>64629</b> |                                                                                     | 57     |       | 175                                                                                   |  |
| <b>64626</b> | 16                                                                                  | 65     | 2,5   | 60                                                                                    |  |
| <b>64625</b> |                                                                                     | 85     |       | 80                                                                                    |  |
| <b>64630</b> |                                                                                     | 135    |       | 7600                                                                                  |  |
| <b>64631</b> | 22                                                                                  | -      | 15    | 11500                                                                                 |  |
| <b>64623</b> | 40                                                                                  | -      | 4     | 2300                                                                                  |  |
| <b>64624</b> | -                                                                                   | -      | -     | 100                                                                                   |  |
| <b>85101</b> | 22                                                                                  | -      | 5     | 2000                                                                                  |  |
| <b>85103</b> | 16                                                                                  | -      | 2,5   | 1200                                                                                  |  |

## ■ DRAINMATIC MAX 200

| COD.         | V | CAP. (mm)            | W    | R.P.M. |  |
|--------------|---|----------------------|------|--------|-------------------------------------------------------------------------------------|
| <b>60284</b> | * | 220-240 V (50-60 Hz) | 1100 | 700    | 80                                                                                  |
| <b>60285</b> |   | 110-130 V (50-60 Hz) |      |        |                                                                                     |

\* : Incluye accesorios / Accessories included / Accessoires inclus














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### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES


|                                                                                                                   |             |
|-------------------------------------------------------------------------------------------------------------------|-------------|
| Capacidad tubo / Pipe capacity / Capacité de tube                                                                 | Ø 50-200 mm |
| Longitud de muelle suministrada / Supplied spring length / Longueur du ressort fournie                            | 20 m        |
| Máxima longitud / Max. Length / Longueur max.                                                                     | 50 m        |
| Ø Muelle / Ø Spring / Ø Diamètre de ressort                                                                       | Ø 30 mm     |
| Velocidad de giro / Turning speed / Vitesse de rotation                                                           | 700 rpm     |
| Interruptor de cambio de sentido de giro / Turning way selector switch / Bouton de changement de sens de rotation | ●           |
| Guantes incluidos / Gloves included / Gants inclus                                                                | ●           |
| Tubo de seguridad incluido / Safe tube included / Tube de sécurité inclus                                         | ●           |
| Máxima estabilidad / Maximum stability / Stabilité maximale                                                       | ●           |
| Ligero y fácil de usar / Lightweight and easy-to-use / Léger et facile à utiliser                                 | ●           |
| Peso en uso / Working weight / Poids en travail                                                                   | 45 Kg       |
| Potencia / Power / Puissance                                                                                      | 1100 W      |



### ACCESORIOS INCLUIDOS / INCLUDED SPARE PARTS / ACCESSOIRES INCLUS / EINSCHLIESSLICH ERSATZTEILE / ACCESSORI INCLUSI / ACESSÓRIOS INCLUIDOS / С ЗАПАСНЫМИ ЧАСТЯМИ

| COD.         |  | L (mm) | L (m) |  |  |
|--------------|-------------------------------------------------------------------------------------|--------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>64632</b> | 30                                                                                  | 80     |       | 150                                                                                   |  |
| <b>64634</b> |                                                                                     | 195    |       | 600                                                                                   |  |
| <b>64635</b> |                                                                                     | 75     | -     | 280                                                                                   |  |
| <b>64636</b> |                                                                                     | 265    |       | 360                                                                                   |  |
| <b>64637</b> |                                                                                     | 205    |       | 380                                                                                   |  |
| <b>64638</b> |                                                                                     | 120    |       | 230                                                                                   |  |
| <b>64623</b> | 40                                                                                  |        | 4     | 2300                                                                                  |  |
| <b>64633</b> | 30                                                                                  |        | 20    | 28000                                                                                 |  |
| <b>64624</b> | -                                                                                   |        | -     | 100                                                                                   |  |
| <b>85102</b> | 30                                                                                  |        | 5     | 7000                                                                                  |  |

### ■ DRAINMATIC MAX 600

| COD.  | V | CAP. (mm)            | W         | R.P.M. |  |
|-------|---|----------------------|-----------|--------|-------------------------------------------------------------------------------------|
| 60286 | * | 220-240 V (50-60 Hz) | Ø 200-600 | 1600   | 140                                                                                 |
| 60287 |   | 110-130 V (50-60 Hz) |           |        |                                                                                     |

\* : Incluye accesorios / Accessories included / Accessoires inclus











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#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                   |              |
|-------------------------------------------------------------------------------------------------------------------|--------------|
| Capacidad tubo / Pipe capacity / Capacité de tube                                                                 | Ø 200-600 mm |
| Longitud de muelle suministrada / Supplied spring length / Longueur du ressort fournie                            | 45 m         |
| Máxima longitud / Max. Length / Longueur max.                                                                     | 50 m         |
| Velocidad de giro / Turning speed / Vitesse de rotation                                                           | 100-600 rpm  |
| Interruptor de cambio de sentido de giro / Turning way selector switch / Bouton de changement de sens de rotation | ●            |
| Guantes incluidos / Gloves included / Gants inclus                                                                | ●            |
| Sistema de varillas / Rod system / Système de baguette                                                            | ●            |
| Máxima estabilidad / Maximum stability / Stabilité maximale                                                       | ●            |
| Fácil de transportar / Easy to transport / Facile à transporter                                                   | ●            |
| Peso en uso / Working weight / Poids en travail                                                                   | 120 Kg       |
| Potencia / Power / Puissance                                                                                      | 1600 W       |




#### ACCESORIOS INCLUIDOS / INCLUDED SPARE PARTS / ACCESSOIRES INCLUS / EINSCHLIESSLICH ERSATZTEILE / ACCESSORI INCLUSI / ACESSÓRIOS INCLUÍDOS / С ЗАПАСНЫМИ ЧАСТЯМИ

| COD.  |  | L (mm) | L (m)    |   |                                                                                       |
|-------|------------------------------------------------------------------------------------|--------|----------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 64639 | 22                                                                                 | 250    | -        | 410                                                                                   |  |
| 64640 |                                                                                    | 330    |          |  |                                                                                       |
| 64641 |                                                                                    | 240    |          | 320                                                                                   |  |
| 64642 |                                                                                    | 250    |          | 340                                                                                   |  |
| 64643 |                                                                                    | 300    |          | 2150                                                                                  |  |
| 64669 | 8 x 22                                                                             |        | 30 x 1,5 | 16500                                                                                 |  |
| 64624 | -                                                                                  | -      | -        | 100                                                                                   |  |
| 64653 | 8 x 22                                                                             |        | 1,5      | 2200                                                                                  |  |

# BE SAFE...BE EFFICIENT

## ■ DRAINMATIC MAX 110

| COD.         | V | CAP. (mm)            | W        | R.P.M. |  |    |
|--------------|---|----------------------|----------|--------|-------------------------------------------------------------------------------------|----|
| <b>60288</b> | * | 220-240 V (50-60 Hz) | Ø 20-110 | 370    | 260                                                                                 | 31 |
| <b>60289</b> |   | 110-130 V (50-60 Hz) |          |        |                                                                                     |    |

\*: Incluye accesorios / Accessories included / Accessoires inclus










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### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                   |             |
|-------------------------------------------------------------------------------------------------------------------|-------------|
| Avance de muelle automático / Automatic spring advance / Avance du ressort automatique                            | ●           |
| Velocidad de avance de muelle / Spring advance speed / Vitesse d'avance du ressort                                | 6 m/min     |
| Capacidad tubo / Pipe capacity / Capacité de tube                                                                 | Ø 20-110 mm |
| Máxima longitud / Max. Length / Longueur max.                                                                     | 22,5 m      |
| Ø Muelle / Ø Spring / Ø Diamètre de ressort                                                                       | Ø 12,5 mm   |
| Velocidad de giro / Turning speed / Vitesse de rotation                                                           | 260 rpm     |
| Interruptor de cambio de sentido de giro / Turning way selector switch / Bouton de changement de sens de rotation | ●           |
| Guantes incluidos / Gloves included / Gants inclus                                                                | ●           |
| Tubo de seguridad incluido / Safe tube included / Tube de sécurité inclus                                         | ●           |
| Máxima estabilidad / Maximum stability / Stabilité maximale                                                       | ●           |
| Fácil de transportar / Easy to transport / Facile à transporter                                                   | ●           |
| Peso en uso / Working weight / Poids en travail                                                                   | 28 kg       |
| Potencia / Power / Puissance                                                                                      | 370 W       |

















### ACCESORIOS INCLUIDOS / INCLUDED SPARE PARTS / ACCESSOIRES INCLUS / EINSCHLIESSLICH ERSATZTEILE / ACCESSORI INCLUSI / ACESSÓRIOS INCLUIDOS / С ЗАПАСНЫМИ ЧАСТЯМИ

| COD.         |  | L (mm) |  |  |
|--------------|-------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>64644</b> | 12,5                                                                                | 135    | 50                                                                                   |  |
| <b>64645</b> |                                                                                     | 100    | 70                                                                                   |  |
| <b>64646</b> | 37                                                                                  | 28     | 35                                                                                   |  |
| <b>64647</b> |                                                                                     | 37     | 25                                                                                   |  |
| <b>64683</b> | 40                                                                                  | -      | 2200                                                                                 |  |
| <b>64624</b> | -                                                                                   | -      | 100                                                                                  |  |

**ACCESORIOS DISPONIBLES / AVAILABLE ACCESORIES / ACCESSOIRES DISPONIBLES / VORHANDENE ERSATZTEILE / ACCESSORI DISPONIBILI / ACESSÓRIOS DISPONÍVEIS / ИМЕЮЩЕЕСЯ ВСПОМОГАТЕЛЬНОЕ ОБОРУДОВАНИЕ**



| COD.  | Descripción / Description / Description                                                     |  O.D. mm | L (mm) | L (m) |  g | Para máquinas / For machines / Pour machines |    |
|-------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------|-------|-------------------------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------|
| 64644 | Taladro en forma de hélice colecta / Collection helical drills / Hélicoïdal long embout     |                                                                                           | 135    |       | 50                                                                                  |                                              |    |
| 64645 | Taladro en forma de hélice abombada / Olive-shaped helical drills / Embout hélicoïdal bombé |                                                                                           | 100    |       | 70                                                                                  |                                              |    |
| 64646 | Cortador de sierra helicoidal / Helical saw cutters / Embout à lame circulaire              | 12,5                                                                                      | 28     |       | 35                                                                                  | 60288, 60289                                 |    |
| 64647 | Cortador en forma de pala / Spade-shaped cutters / Embout à lame plate                      |                                                                                           | 37     |       | 25                                                                                  |                                              |    |
| 64240 | Taladro en forma de hélice recta / Straight helical drills / Embout hélicoïdal droit        |                                                                                           |        |       | 70                                                                                  |                                              |    |
| 64241 | Taladro en forma de hélice colecta / Collection helical drills / Hélicoïdal long embout     |                                                                                           | 135    |       | 50                                                                                  | 60040, 60041, 60282, 60283                   |    |
| 64242 | Taladro en forma de hélice abombada / Olive-shaped helical drills / Embout hélicoïdal bombé |                                                                                           | 100    |       | 70                                                                                  | 60040, 60041                                 |    |
| 64243 | Cortador de sierra de 4 filos / 4-edged saw cutters / Embout à 4 taillants                  |                                                                                           | 35     |       | 32                                                                                  | 60040, 60041, 60282, 60283                   |    |
| 64244 | Cortador de sierra helicoidal / Helical saw cutters / Embout à lame circulaire              | 16                                                                                        | 28     |       | 35                                                                                  |                                              |   |
| 64245 | Cortador en forma de pala / Spade-shaped cutters / Embout à lame plate                      |                                                                                           | 37     |       | 25                                                                                  | 60040, 60041                                 |  |
| 64246 | Cortador en forma de C / C shaped cutters / Embout à lame en C                              |                                                                                           | 40     |       |                                                                                     |                                              |  |
| 64249 | Extensión de tubo / Vent-pipe extension / Rallonge de tube                                  |                                                                                           | 85     |       | 85                                                                                  |                                              |  |
| 64628 | Taladro en forma de hélice recta / Straight helical drills / Embout hélicoïdal droit        |                                                                                           | 190    |       | 165                                                                                 | 60282, 60283                                 |  |
| 64629 | Taladro en forma de embudo helicoidal / Funnel shaped helical drills / Embout conique       |                                                                                           | 140    |       | 175                                                                                 |                                              |  |
| 64639 | Cortador de sierra helicoidal / Helical saw cutters / Embout à lame circulaire              |                                                                                           | 250    |       | 410                                                                                 |                                              |  |
| 64640 | Taladro en forma de hélice colecta / Collection helical drills / Hélicoïdal long embout     |                                                                                           |        |       | 330                                                                                 |                                              |  |
| 64641 | Cortador en forma de pala / Spade-shaped cutters / Embout à lame plate                      |                                                                                           | 240    |       | 320                                                                                 | 60286, 60287                                 |  |
| 64642 | Taladro en forma de hélice colecta / Collection helical drills / Hélicoïdal long embout     | 22                                                                                        | 250    |       | 340                                                                                 |                                              |  |
| 64643 | Adaptador / Adapter / Adaptateur                                                            |                                                                                           | 300    |       | 2150                                                                                |                                              |  |
| 64625 | Cortador de sierra de 4 filos / 4-edged saw cutters / Embout à 4 taillants                  |                                                                                           | 65     |       | 80                                                                                  | 60282, 60283                                 |  |
| 64626 | Cortador en forma de pala / Spade-shaped cutters / Embout à lame plate                      |                                                                                           | 57     |       | 60                                                                                  |                                              |  |
| 64636 | Taladro en forma de hélice recta / Straight helical drills / Embout hélicoïdal droit        |                                                                                           | 265    |       | 360                                                                                 |                                              |  |
| 64634 | Taladro en forma de embudo helicoidal / Funnel shaped helical drills / Embout conique       |                                                                                           | 195    |       | 600                                                                                 |                                              |  |
| 64637 | Taladro en forma de hélice colecta / Collection helical drills / Hélicoïdal long embout     |                                                                                           | 205    |       | 380                                                                                 |                                              |  |
| 64638 | Cortador en forma de C / C shaped cutters / Embout à lame en C                              | 30                                                                                        | 120    |       | 230                                                                                 | 60284, 60285                                 |  |
| 64632 | Cortador en forma de pala / Spade-shaped cutters / Embout à lame plate                      |                                                                                           | 80     |       | 150                                                                                 |                                              |  |
| 64635 | Cortador de sierra helicoidal / Helical saw cutters / Embout à lame circulaire              |                                                                                           | 75     |       | 280                                                                                 |                                              |  |



| COD.  | Descripción / Description / Description                     |  O.D.<br>mm | L (mm)   | L (m) |  g | Para máquinas / For machines / Pour machines |                                                                                       |
|-------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------|-------|-------------------------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------|
| 85104 |                                                             | 8                                                                                            | 4,5      | 2350  |                                                                                     | 60040, 60041                                 |    |
| 85100 |                                                             |                                                                                              |          |       |                                                                                     | 60282, 60283                                 |                                                                                       |
| 64248 |                                                             |                                                                                              | 20       | 9750  |                                                                                     | 60040, 60041                                 |    |
| 64630 |                                                             | 16                                                                                           | 15       | 7600  |                                                                                     | 60282, 60283                                 |    |
| 85103 |                                                             |                                                                                              | 2,5      | 1200  |                                                                                     | 60040, 60041, 60282, 60283                   |    |
| 64631 | Alargadera / Extension / Rallonge                           |                                                                                              |          | 15    | 11500                                                                               |                                              |    |
| 85101 |                                                             | 22                                                                                           |          |       | 2000                                                                                | 60282, 60283                                 |    |
| 85102 |                                                             |                                                                                              |          | 5     | 7000                                                                                |                                              |    |
| 64633 |                                                             | 30                                                                                           |          |       | 28000                                                                               | 60284, 60285                                 |    |
| 64669 | Varilla / Rod / Baguette                                    | 8 x 22                                                                                       | 30 x 1,5 | 16500 |                                                                                     | 60286, 60287                                 |   |
| 64653 |                                                             |                                                                                              | 1,5      | 2200  |                                                                                     |                                              |                                                                                       |
| 64623 | Extensión de tubo / Vent-pipe extension / Rallonge de tube  | 40                                                                                           | 4        | 2300  |                                                                                     | 60288, 60289, 60282, 60283, 60284, 60285     |  |
| 64683 | Tubo protector / Pipe protector / Tube protecteur           |                                                                                              |          | 2200  |                                                                                     | 60288                                        |  |
| 64624 | Guantes protectores / Protection gloves / Gants protecteurs | -                                                                                            |          | 100   |                                                                                     | 60284, 60285, 60286, 60287, 60288, 60289     |  |

## MASTERVISION MINI REC ZOOM



| COD.  | L (m) | L (') |  O.D.<br>mm |  Kg |
|-------|-------|-------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 60119 | 1     | 3     | 4,5                                                                                            |                                                                                         |
| 60125 | 2     | 6     |                                                                                                |                                                                                         |
| 60134 |       |       | 5,5                                                                                            | 2,0                                                                                     |
| 60054 | **    | 1     | 3                                                                                              |                                                                                         |
| 60139 | *     |       | 9                                                                                              |                                                                                         |
| 60144 |       | 5     | 15                                                                                             | 3,0                                                                                     |
| 60154 | -     | 1     | 11                                                                                             | 2,0                                                                                     |
| 60159 | *     |       | 16                                                                                             |                                                                                         |

\*\* : Con cámara frontal y lateral / With front and side view / Avec une caméra frontale et latérale

\* : Incluye accesorios / Accessories included / Accessoires inclus

CE | 12M



Muelle / Spring / Ressort - 11mm (cod.60154 - cod.60096)

12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

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 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
 Si vous ne trouvez pas l'article que vous desirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                              |                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Longitud de inspección / <i>Inspection length</i> / Longueur d'inspection                                                    | 1 m (3') hasta 9 m / 1 m (3') up to 9 m / 1 m (3') jusqu'à 9 m                                                                                       |
| Iluminación / <i>Lighting</i> / Illumination                                                                                 | 4,5 mm: 4 led / 9 mm: 4 led / 11 mm: 4 led / 16 mm: 2 led                                                                                            |
| Estanqueidad del cabezal / <i>Waterproof camera head</i> / Étanchéité de la tête                                             | IP67                                                                                                                                                 |
| Salida de vídeo PAL/NTSC / <i>PAL/NTSC Video output</i> / Sortie vidéo PAL/NTSC                                              | ●                                                                                                                                                    |
| Sistema de visión directa / <i>Direct vision system</i> / Système de vision directe                                          | PAL                                                                                                                                                  |
| Conexión / <i>Connection</i> / Connexion                                                                                     | mini-USB                                                                                                                                             |
| Grabación de vídeo y captación de foto / <i>Video recording and photographing</i> / Enregistrement vidéo et capture de photo | Micro SD 4 Gb incluida (hasta 16 Gb) / <i>Micro SD 4 Gb included (up to 16 Gb)</i> / Micro SD 4 Gb incluse (jusqu'à 16GB)                            |
| ZOOM x3                                                                                                                      | ∅                                                                                                                                                    |
| Formato de compresión / <i>Compression format</i> / Format de compression                                                    | Foto-Photo JPG. AVI Video                                                                                                                            |
| Monitor / <i>Monitor</i> / Moniteur                                                                                          | 320(RGB) x 240 Pixel 3,5" TFT-LCD                                                                                                                    |
| Dimensiones del monitor / <i>Monitor dimensions</i> / Dimensions du moniteur                                                 | 105 x 92 x 42 mm                                                                                                                                     |
| Idiomas del menú / <i>Menu languages</i> / Langues du menu                                                                   | 10                                                                                                                                                   |
| Batería para el monitor / <i>Battery for the monitor</i> / Batterie du moniteur                                              | 3,7 V, 1,2 Ah - Batería de litio-ión / <i>3,7 V, 1,2 Ah - Ion-Lithium battery</i> / 3,7 V, 1,2 Ah - Batterie en lithium-ion                          |
| Tiempo de carga / <i>Charge time</i> / Temps de recharge                                                                     | 4 h                                                                                                                                                  |
| Duración de la batería / <i>Battery operation time</i> / Durée de la batterie                                                | 2 h                                                                                                                                                  |
| Sensor de imagen / <i>Imaging sensor</i> / Senseur d'image                                                                   | CMOS                                                                                                                                                 |
| Píxeles en imagen / <i>Image pixels</i> / Pixels en image                                                                    | 60119 320 x 240<br>60125 320 x 240<br>60134 320 x 240<br>60054 640 x 480<br>60139 640 x 480<br>60144 640 x 480<br>60154 640 x 480<br>60159 704 x 576 |
| Campo de visión / <i>Field of view</i> / Champ de vision                                                                     | 50°                                                                                                                                                  |
| Dimensiones de la cámara / <i>Camera dimensions</i> / Dimensions de la caméra                                                | 195 x 165 x 55 mm                                                                                                                                    |
| Pilas / <i>Batteries</i> / Piles                                                                                             | 4 x 1,5V AA                                                                                                                                          |
| Temperatura de trabajo / <i>Working temperature</i> / Température de travail                                                 | -10 °C-50 °C / 14 °F-122 °F                                                                                                                          |
| Regulación de la intensidad luminosa / <i>Light intensity regulation</i> / Régulateur de l'intensité de l'image              | ●                                                                                                                                                    |
| Pantalla extraíble WIFI / <i>WIFI Removable screen</i> / WIFI Écran extractible                                              | ●                                                                                                                                                    |
| Sistema inalámbrico / <i>Wireless system</i> / Système sans fil                                                              | ●                                                                                                                                                    |
| Grabación de voz / <i>Voice recording</i> / Enregistrement vocal                                                             | ●                                                                                                                                                    |
| Maleta / <i>Case</i> / Malette                                                                                               | ●                                                                                                                                                    |
| Inspección de tuberías / <i>Pipe inspection</i> / Inspection de tuyauterie                                                   | ●                                                                                                                                                    |
| Inspección de tejados con goteras / <i>Leaking water ceiling inspection</i> / Inspection de toits avec gouttières            | ●                                                                                                                                                    |
| Inspección de muros en construcción / <i>Wall inspection while building</i> / Inspection de murs en phase de construction    | ●                                                                                                                                                    |
| Inspección de motores / <i>Engine inspection</i> / Inspection de moteurs                                                     | ●                                                                                                                                                    |

**ACCESORIOS DISPONIBLES / AVAILABLE ACCESORIES / ACCESSOIRES DISPONIBLES / VORHANDENE ERSATZTEILE / ACCESSORI DISPONIBILI / ACESSÓRIOS DISPONÍVEIS / ИМЕЮЩЕЕСЯ ВСПОМОГАТЕЛЬНОЕ ОБОРУДОВАНИЕ**

| COD.    | Descripción / <i>Description</i> / Description                                                                                               |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 60097   | 4,5 mm / L: 1 m                                                                                                                              |
| 60098   | 4,5 mm / L: 2 m                                                                                                                              |
| 60086   | 5,5 mm / L: 1 m                                                                                                                              |
| 60071 * | 9 mm / L: 1 m                                                                                                                                |
| 60038   | 9 mm-L: 1 m. Con cámara frontal y lateral / <i>9 mm-L: 1 m. With front and side view</i> / 9 mm-L: 1 m. Avec une caméra frontale et latérale |
| 60088 * | 9 mm / L: 5 m                                                                                                                                |
| 60096   | 11 mm (muella)-L: 1 m / <i>11 mm (spring)-L: 1 m</i> / 11 mm (ressort)-L: 1 m                                                                |
| 60070 * | 16 mm / L: 1 m                                                                                                                               |



\*: Incluye accesorios / *Accessories included* / Accessoires inclus

| COD.         |   | Descripción / Description / Description |     |
|--------------|---|-----------------------------------------|-----|
| <b>60069</b> | * | Extensión / Extension / Extension       | 1 m |

\* : Diámetro de conexiones: 19mm / Diameter of connections: 19mm / Diamètre des connexions: 19mm

| COD.         | Descripción / Description / Description |     |
|--------------|-----------------------------------------|-----|
| <b>60075</b> | Espejo / Mirror / Miroir                | 45° |
| <b>60076</b> | Gancho / Hook / Crochet                 | -   |
| <b>60077</b> | Imán / Magnet / Aimant                  | -   |
| <b>60078</b> | Protector / Protector / Protecteur      | -   |

Accesorios incluidos para la cabeza de cámara de 9 mm, excepto cod. 60038 / Included spare parts for 9 mm camera head, except cod. 60038 / Accessoires inclus pour la tête de caméra de 9 mm, sauf cod. 60038

| COD.         | Descripción / Description / Description |     |
|--------------|-----------------------------------------|-----|
| <b>60072</b> | Espejo / Mirror / Miroir                | 45° |
| <b>60073</b> | Gancho / Hook / Crochet                 | -   |
| <b>60074</b> | Imán / Magnet / Aimant                  | -   |

Accesorios incluidos para la cabeza de cámara de 16 mm / Included spare parts for 16 mm camera head / Accessoires inclus pour la tête de caméra de 16 mm



## MASTERVISION REC

| COD.         | V                       | CAP. (mm)  |    |    |
|--------------|-------------------------|------------|----|----|
| <b>60061</b> | 110 V- 240 V (50-60 Hz) | Ø 40-Ø 200 | 30 | 12 |

CE I 12M





### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                            |                               |
|------------------------------------------------------------------------------------------------------------|-------------------------------|
| Monitor / Monitor / Moniteur                                                                               | 320 x 960 Pixel 7" TFT color  |
| Fuente de luz blanca / White light source / Source de lumière blanche                                      | 8 LED                         |
| Campo visual / Field of view / Champ visuel                                                                | 60°                           |
| Profundidad visual / Depth of view / Profondeur visuelle                                                   | 400 mm                        |
| Sensor de luminosidad / Illumination sensor / Senseur de luminosité                                        | COLOR CCD                     |
| Tensión de entrada / Input voltage / Voltage d'alimentation                                                | 100-240 V                     |
| Lector de tarjetas / Card reader / Lecteur de cartes                                                       | USB                           |
| Grabación de video por medio de USB / USB recording system / Enregistrement video par USB                  | ●                             |
| Salida de vídeo / Video output / Sortie de video                                                           | ●                             |
| Cámara estanca / Waterproof camera / Boitier étanche                                                       | IP X8                         |
| Baterías / Batteries / Piles                                                                               | 12V DC 1800 mA                |
| Inspección de tubos / Pipe inspection / Inspection de tubes                                                | Ø 40-Ø 200 mm                 |
| Barra de empuje flexible / Flexible push rod / Barre de pulsion flexible                                   | 30 m (100')                   |
| Longitud total de cable / Cable total length / Longueur totale de câble                                    | 30 m (100')                   |
| Cámara INOX / INOX camera / Boitier INOX                                                                   | Ø 26 mm (1")                  |
| Maleta / Case / Malette                                                                                    | 53,5 x 22 x 47,5 cm           |
| Temperatura de trabajo / Working temperature / Température de travail                                      | -28 °C-50 °C / -18° F -122° F |
| Bolígrafo USB 1 Gb con puntero láser / 1 Gb pendrive with laser pointer / Stylo USB 1 Gb avec pointe laser | ●                             |

**12M** GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

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## MASTERVISION ECO

| COD.         | V                       | CAP. (mm)  |  |  |
|--------------|-------------------------|------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>60063</b> | 110 V- 240 V (50-60 Hz) | Ø 40-Ø 200 | 30                                                                                | 12                                                                                  |

CE I 12M

### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                          |                               |
|--------------------------------------------------------------------------|-------------------------------|
| Monitor / Monitor / Moniteur                                             | 320 x 960 Pixel 7" TFT color  |
| Campo visual / Field of view / Champ visuel                              | 60°                           |
| Profundidad visual / Depth of view / Profondeur visuelle                 | 400 mm                        |
| Sensor de luminosidad / Illumination sensor / Senseur de luminosité      | COLOR CCD                     |
| Tensión de entrada / Input voltage / Voltage d'alimentation              | 100-240 V                     |
| Salida de vídeo / Video output / Sortie de vidéo                         | ●                             |
| Cámara estanca / Waterproof camera / Boitier étanche                     | IP X8                         |
| Baterías / Batteries / Piles                                             | 12V DC 1800 mA                |
| Inspección de tubos / Pipe inspection / Inspection de tubes              | Ø 40-Ø 200 mm                 |
| Barra de empuje flexible / Flexible push rod / Barre de pulsion flexible | 30 m (100')                   |
| Longitud total de cable / Cable total length / Longueur totale de câble  | 30 m (100')                   |
| Cámara INOX / INOX camera / Boitier INOX                                 | Ø 26 mm (1")                  |
| Maleta / Case / Malette                                                  | 53,5 x 22 x 47,5 cm           |
| Temperatura de trabajo / Working temperature / Température de travail    | -28 °C-50 °C / -18° F -122° F |
| Fuente de luz blanca / White light source / Source de lumière blanche    | 8 LED                         |



## ACCESORIOS / ACCESSORIES / ACCESSOIRES / ZUBEHÖR / ACCESSORI / ACCESSORIOS / ЗАПАСНЫЕ ЧАСТИ

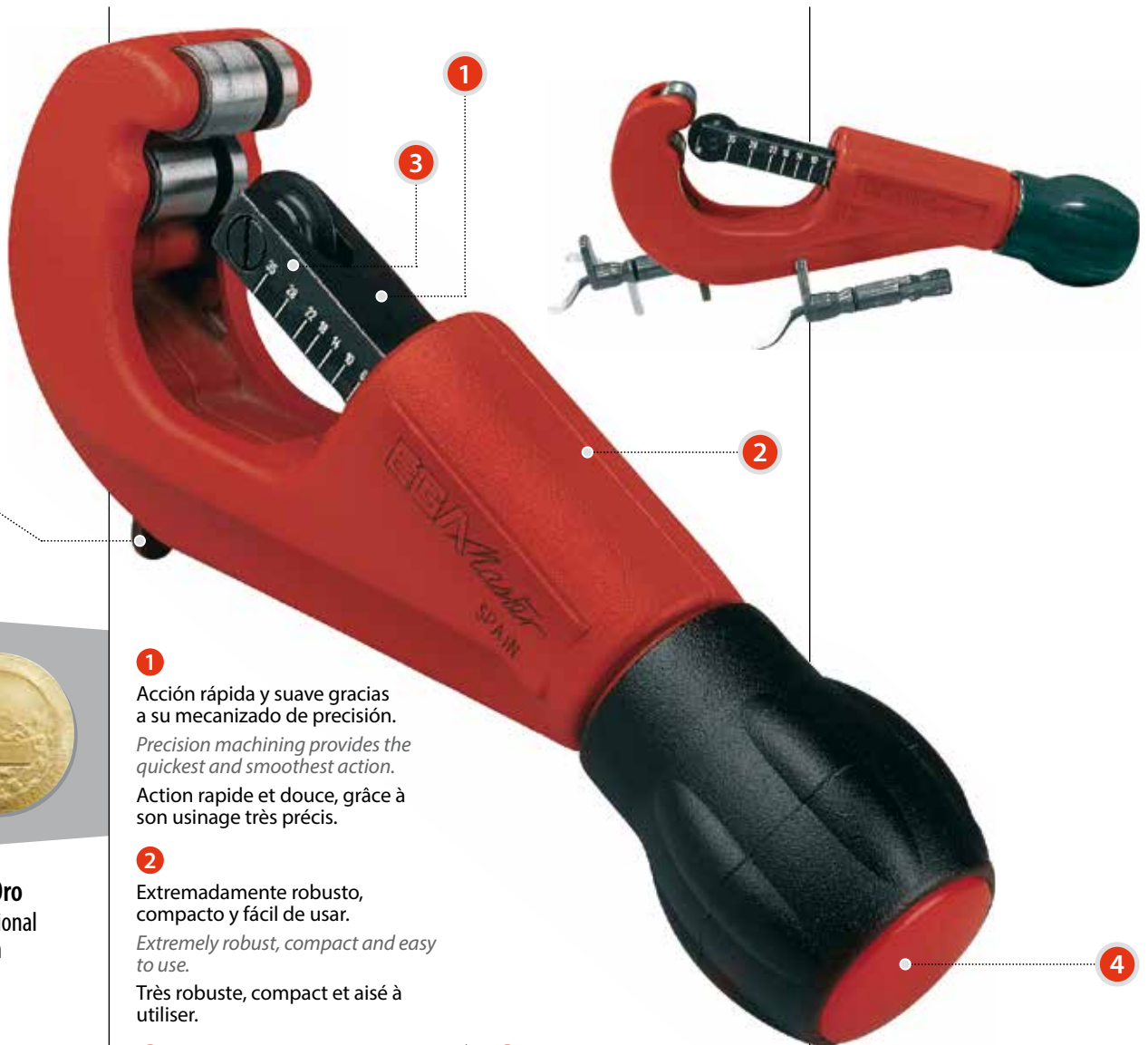
| COD.         | Descripción / Description / Description             | L (m) |
|--------------|-----------------------------------------------------|-------|
| <b>60057</b> | Carrete de cable / Cable reel / Enrouleur de câbles | 30    |



21

HERRAMIENTA PARA COBRE  
TOOLS FOR COPPER  
OUTILLAGE POUR LE CUIVRE  
WERKZEUGE FÜR KUPFER  
UTENSILI PER RAME  
FERRAMENTAS PARA COBRE  
ИНСТРУМЕНТ ДЛЯ МЕДИ





**Medalla de Oro**  
**Salón Internacional**  
**de la Invención**

París 2004

**Gold Medal**  
**International Inventors**  
**Competition**

Paris 2004

**Medaille d'Or**  
**Salon International**  
**de l'Invention**

Paris 2004

**1** Acción rápida y suave gracias a su mecanizado de precisión.  
*Precision machining provides the quickest and smoothest action.*  
 Action rapide et douce, grâce à son usinage très précis.

**2** Extremadamente robusto, compacto y fácil de usar.  
*Extremely robust, compact and easy to use.*  
 Très robuste, compact et aisé à utiliser.

**3** Escala graduada marcada en láser para facilitar el posicionamiento.  
*Laser marked graduated scale to facilitate working action.*  
 Echelle graduée, marquée au laser, pour faciliter le positionnement.

**4** Cuchilla de repuesto incluida en el pomo.  
*Extra cutting wheel at the knob.*  
 Molette de rechange, incluse dans le manche.

**5** Puede cortar tubos de cobre, acero inoxidable y plástico con las cuchillas correspondientes.  
*Able to cut copper, inox and plastic pipes with the proper cutting wheels.*  
 Il peut couper du cuivre, de l'Inox et du plastique avec les molettes correspondantes.

**6** Escariador extraíble puede trabajar montado en el cortatubos o de forma independiente.  
*Extractable reamer can work assembled in the tubing cutter or independently.*  
 L'alésoir extractif peut travailler assemblé au coupe-tubes ou de manière indépendante.

**7** Modelo registrado:  
*Registered model:*  
 Modèle enregistré:  
**MI.S.146.561**



■ **CORTATUBOS / TUBE CUTTER / COUPE-TUBES / KUPFER ROHRABSCHNEIDER / TAGLIATUBI / CORTA TUBOS / ТРУБОРЕЗ**

■ **SERIE CU = COBRE / COPPER / CUIVRE / KUPFER / RAME / COBRE / МЕДЬ**

■ **MINI**






| COD.         |    |  |  |  |  |  |  |
|--------------|----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>63097</b> | CU | 3-22                                                                              | 135                                                                               | 20                                                                                | ●                                                                                 | 63110                                                                             | 20                                                                                  |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Reforzado / Reinforced / Renforcé



■ **MINI 30**

| COD.         |    |  |  |  |  |  |  |
|--------------|----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>63168</b> | CU | 3-30                                                                              | 210                                                                               | 10                                                                                | ●                                                                                 | 63086                                                                             | 20                                                                                  |

Modelo registrado / Registered model / Modèle enregistré



■ **CLASSIC 32**

| COD.         |    |  |  |  |  |  |  |
|--------------|----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>63170</b> | CU | 3-32                                                                              | 300                                                                               | 1                                                                                 | ●                                                                                 | 63110                                                                             | 20                                                                                  |



■ **TELESCOPIC 32**

| COD.         |    |  |  |  |  |  |  |
|--------------|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>63105</b> | CU | 3-32                                                                                | 290                                                                                 | 1                                                                                   | ●                                                                                   | 63110                                                                               | 20                                                                                    |



■ **UNIQUE**

| COD.         |    |  |  |  |  |  |  |
|--------------|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>63119</b> | CU | 6-42                                                                                | 550                                                                                 | 8                                                                                   | ●                                                                                   | 63111                                                                               | 10                                                                                    |

● | Modelo registrado / Registered model / Modèle enregistré



■ **AUTOMATIC 50**

| COD.         |    |  |  |  |  |  |  |
|--------------|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>63363</b> | CU | 6-50                                                                                | 450                                                                                 | 1                                                                                   | ●                                                                                   | 63720                                                                               | 10                                                                                    |



■ **TELESCOPIC 70**

| COD.         |    |  |  |  |  |  |  |
|--------------|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>60359</b> | CU | 6-70                                                                                | 1100                                                                                | 1                                                                                   | ●                                                                                   | 60265                                                                               | 10                                                                                    |



■ **AUTOMATIC 127**

| COD.         |    |  |  |  |  |  |  |
|--------------|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>63174</b> | CU | 50-127                                                                              | 1950                                                                                | 1                                                                                   | ●                                                                                   | 64106                                                                               | 10                                                                                    |



■ KIT 3 PCS.

| COD.         | PCS.      |
|--------------|-----------|
| <b>69465</b> | 3         |
| PCS.         | COD. PCS. |
| 1            | 63097     |
|              | 63170     |
|              | 63119     |



■ EXPOSITORES / DISPLAYS / PRESENTOIRS / DISPLAY / ESPOSITORI / DISPLAY STAND / СТЕНДЫ

■ SERIE CU = COBRE / COPPER / CUIVRE / KUPFER / RAME / COBRE / МЕДЬ

■ 20 PCS.

| COD.         | PCS.      |         |
|--------------|-----------|---------|
| <b>55567</b> | 20        |         |
| PCS.         | COD. PCS. | O.D. mm |
| 8            | 63170     | Ø32 mm  |
| 4            | 63105     |         |
| 8            | 63119     | Ø42 mm  |



■ ESCARIADORES / REAMERS / ALESOIR / ENTGRATER / SBAVATORI / ESCARIADOR / ЗЕНКОВКА

| COD.         |                                                                                   | g  |    |   | ← 47 mm → | ← 26 mm → |
|--------------|-----------------------------------------------------------------------------------|----|----|---|-----------|-----------|
| <b>63371</b> | Cu, Acero, Plástico, Inox / Cu, Steel, Plastic, Inox / Cu, Acier, Plastique, Inox | 90 | 20 | ● | 64008     | 64447     |
| <b>63375</b> | Latón, Fundición / Brass, Cast iron / Laiton, Fonte                               |    |    |   | 64446     | 64448     |

| COD.         |                                                                                   | g  |    |   | ← 47 mm → |
|--------------|-----------------------------------------------------------------------------------|----|----|---|-----------|
| <b>63370</b> | Cu, Acero, Plástico, Inox / Cu, Steel, Plastic, Inox / Cu, Acier, Plastique, Inox | 50 | 20 | ● | 64008     |
| <b>63374</b> | Latón, Fundición / Brass, Cast iron / Laiton, Fonte                               |    |    |   | 64446     |

| COD.         |                                                                                   | g  |    |   | ← 47 mm → |
|--------------|-----------------------------------------------------------------------------------|----|----|---|-----------|
| <b>63368</b> | Cu, Acero, Plástico, Inox / Cu, Steel, Plastic, Inox / Cu, Acier, Plastique, Inox | 10 | 20 | ● | 64008     |
| <b>63372</b> | Latón, Fundición / Brass, Cast iron / Laiton, Fonte                               |    |    |   | 64446     |





| COD.         | Descripción / Description / Description                                           | L (mm) |   |
|--------------|-----------------------------------------------------------------------------------|--------|---|
| <b>64008</b> | Cu, Acero, Plástico, Inox / Cu, Steel, Plastic, Inox / Cu, Acier, Plastique, Inox | 47     | 6 |
| <b>64446</b> | Latón, Fundición / Brass, Cast iron / Laiton, Fonte                               |        |   |

| COD.         | Descripción / Description / Description                                           | L (mm) |    |
|--------------|-----------------------------------------------------------------------------------|--------|----|
| <b>64447</b> | Cu, Acero, Plástico, Inox / Cu, Steel, Plastic, Inox / Cu, Acier, Plastique, Inox | 26     | 20 |
| <b>64448</b> | Latón, Fundición / Brass, Cast iron / Laiton, Fonte                               |        |    |

| COD.         |                                                                                           | O.D. mm | O.D. inch  | g   |   |   |
|--------------|-------------------------------------------------------------------------------------------|---------|------------|-----|---|---|
| <b>63958</b> | Cu, Acero, Plástico, Inox, Latón, Aluminio / Cu, Steel, Plastic, Inox, Brass, Aluminium / | 8-35    | 5/16-1.3/8 | 250 | 1 | ● |
| <b>63959</b> | Cu, Acier, Plastique, Inox, Laiton, Aluminium                                             | 10-54   | 1/2-2.1/8  | 500 |   |   |








| COD.         |                                                                   |  |  |  |  |
|--------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>63085</b> | Cu, Latón, Aluminio / Cu, Brass, Aluminum / Cu, Laiton, Aluminium | 235                                                                               | 40                                                                                | 10                                                                                | •                                                                                   |



■ **ESCARIADOR DE CHAFLANES / CHAMFERBIT / EBAVUREUR Á CHANFREINS / ABSCHRÄGER / SBAVATORE PER SMUSSARE / ESCARIADOR DE CHANFROS / ЗЕНКОВКА С РУКОЯТКОЙ**




| COD.         |                                                                                   |  | Crestas /<br>Crests /<br>Crête |  |  |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>63776</b> | Cu, Acero, Plástico, Inox / Cu, Steel, Plastic, Inox / Cu, Acier, Plastique, Inox | 12,4                                                                              | 3                              | 100                                                                                 | 6                                                                                   |
| <b>63777</b> |                                                                                   | 25                                                                                |                                | 120                                                                                 |                                                                                     |



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Material / Material / Matière HSS (M2)

■ **FRESA CÓNICA / CONIC MILLING TOOL / FRAISE CONIQUE / SCHAFTFRÄSER KONISCH / FRESA CONICA / FRESA CÓNICA / КОНИЧЕСКАЯ ЗЕНКОВКА С РУКОЯТКОЙ**




| COD.         |                                                                                   |  | Crestas /<br>Crests /<br>Crête |  |  |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>63778</b> | Cu, Acero, Plástico, Inox / Cu, Steel, Plastic, Inox / Cu, Acier, Plastique, Inox | 10-34                                                                             | 6                              | 150                                                                                 | 6                                                                                   |



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Material / Material / Matière HSS

■ **ESCARIADOR CÓNICO / TAPER REAMER / EBAVUREUR CONIQUE / HANDREIBAHLEN / SBAVATORE CONICO / ESCARIADOR CÓNICO / ЛЕНТОЧНАЯ ЗЕНКОВКА**





| COD.         |                                                                                   |  | Crestas /<br>Crests /<br>Crête |  |  |
|--------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>63779</b> | Cu, Acero, Plástico, Inox / Cu, Steel, Plastic, Inox / Cu, Acier, Plastique, Inox | 3-12                                                                                | 6                              | 100                                                                                   | 6                                                                                     |
| <b>63780</b> |                                                                                   | 10-25                                                                               | 8                              | 120                                                                                   |                                                                                       |




**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Material / Material / Matière HSS

■ **RASQUETA / SCRAPER / RACLOIR / ENTGRATER / RASCHIETTO / ESPÁTULA / ШАБЕР**



| COD.         |                                                                                   |  |  |  |  |
|--------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>63376</b> | Cu, Acero, Plástico, Inox / Cu, Steel, Plastic, Inox / Cu, Acier, Plastique, Inox | 60                                                                                  | 20                                                                                  | •                                                                                    | 64449                                                                                 |



| COD.         | Válido para / Valid for / Valable pour                                            | L (mm) |  |
|--------------|-----------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|
| <b>64449</b> | Cu, Acero, Plástico, Inox / Cu, Steel, Plastic, Inox / Cu, Acier, Plastique, Inox | 63376  | 120 20                                                                                |



■ **CEPILLOS PARA LIMPIEZA DE COBRE / COPPER CLEANING BRUSHES / BROSE DE NETTOYAGE POUR CUIVRE / KUPFER - REINIGUNGSBÜRSTE / SPAZZOLE PER RAME / ESCOVAS PARA LIMPIEZA DE COBRE / ЩЕТКИ ДЛЯ ЗАЧИСТКИ МЕДИ**

| COD.         | CAP. Ø (inch) |            |  |  |  |
|--------------|---------------|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>63206</b> | 1/2-3/4       | INT./ EXT. | 30                                                                                  | 6                                                                                   | •                                                                                     |







| COD.         | CAP. Ø (inch) |      |  |  |  |
|--------------|---------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>63208</b> | 1/2           | INT. | 5                                                                                   | 6                                                                                   | •                                                                                     |



**PARA TUBO DE COBRE RECOCIDO Y ALUMINIO / FOR SOFT COPPER & ALUMINIUM TUBING / POUR TUBE EN CUIVRE RECUIT ET ALUMINIUM / FÜR WEICHES KUPFER UND ALUMINIUM / PER TUBIRICOTTI E ALLUMINIO / PARA TUBO DE COBRE RECOZIDO E ALUMINIO / ДЛЯ МЯГКИХ МЕДНЫХ И АЛЮМИНИЕВЫХ ТРУБ**

**CURVATUBOS DE CARRACA / RATCHET TUBE BENDER / CINTREUSE ARBALÈTE / EINHAND-BIEGERÄT / CURVATUBI A CRICCO / CURVADORA DE ROQUETE / АРБАЛЕТНЫЙ ТРУБОГИБ**

**KITS**


| COD.         |  O.D.<br>(mm) |  O.D.<br>(inch) |  |  | Include/<br>Includes/<br>Inclus |
|--------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------|
| <b>68165</b> | 12 (68130) - 15 (68132) - 18 (68134) - 22 (68135)                                              | -                                                                                                |                                                                                   |                                                                                    |                                 |
| <b>68166</b> | 10 (68129), 12 (68130), 14 (68131), 18 (68134), 22 (68135)                                     |                                                                                                  |                                                                                   |                                                                                    |                                 |
| <b>68167</b> | 10 (68129), 12 (68130), 15 (68132), 18 (68134), 22 (68135)                                     |                                                                                                  |                                                                                   |                                                                                    |                                 |
| <b>68168</b> | 10 (68129), 12 (68130), 16 (68133), 18 (68134), 22 (68135)                                     |                                                                                                  |                                                                                   |                                                                                    |                                 |
| <b>68169</b> | 12 (68130), 15 (68132), 18 (68134), 22 (68135)                                                 |                                                                                                  |                                                                                   |                                                                                    | 68118                           |
| <b>68170</b> | 10 (68129), 12 (68130), 14 (68131), 18 (68134), 22 (68135)                                     |                                                                                                  |                                                                                   |                                                                                    |                                 |
| <b>68171</b> | 10 (68129), 12 (68130), 15 (68132), 18 (68134), 22 (68135)                                     |                                                                                                  | 63170                                                                             | 63085                                                                              |                                 |
| <b>68172</b> | 10 (68129), 12 (68130), 16 (68133), 18 (68134), 22 (68135)                                     |                                                                                                  |                                                                                   |                                                                                    |                                 |
| <b>68173</b> | -                                                                                              | 3/8 (68136), 1/2 (68137), 5/8 (68138), 3/4 (68139), 7/8 (68140)                                  |                                                                                   |                                                                                    |                                 |



| COD.         |  9 |
|--------------|--------------------------------------------------------------------------------------|
| <b>68118</b> | 1650                                                                                 |




**MM**

| COD.         |  O.D.<br>mm |
|--------------|------------------------------------------------------------------------------------------------|
| <b>68128</b> | 8                                                                                              |
| <b>68129</b> | 10                                                                                             |
| <b>68130</b> | 12                                                                                             |
| <b>68131</b> | 14                                                                                             |
| <b>68132</b> | 15                                                                                             |
| <b>68133</b> | 16                                                                                             |
| <b>68134</b> | 18                                                                                             |
| <b>68135</b> | 22                                                                                             |



**INCH**

| COD.         |  O.D.<br>inch |
|--------------|--------------------------------------------------------------------------------------------------|
| <b>68136</b> | 3/8                                                                                              |
| <b>68137</b> | 1/2                                                                                              |
| <b>68138</b> | 5/8                                                                                              |
| <b>68139</b> | 3/4                                                                                              |
| <b>68140</b> | 7/8                                                                                              |



■ **KIT MULTICAPA / KIT MULTILAYER / KIT MULTICOUCHES / BIEGEGERÄT SET / KIT MULTISTRATO / KIT MULTICAPA / НАБОР ДЛЯ МЕТАЛЛОПЛАСТИКА**



| COD.  | O.D. (mm)                          | Icon 1 | Icon 2 | Incluye / Includes / Inclus |
|-------|------------------------------------|--------|--------|-----------------------------|
| 68162 | 16 (68133), 18 (68134), 20 (68139) | -      | -      |                             |
| 68161 |                                    | 63170  | 63085  | 68118                       |
| 68228 |                                    | -      | -      |                             |
| 68227 | 16 (68133), 18 (68134), 22 (68135) | 63170  | 63085  |                             |



■ **MUELLES CURVATUBOS / SPRING TUBE BENDERS / RESSORT À CINTRER / KUPFERROHR-AUSSENBIEGEFEDERN / MOLLE CURVATUBI / MOLAS CURVA TUBOS / ПРЖИННЫЕ ТРУБОГИБЫ**

| COD.  | O.D. mm | O.D. inch | g   | Icon 1 | Icon 2 |
|-------|---------|-----------|-----|--------|--------|
| 68041 | 6       | -         | 55  |        |        |
| 68048 | -       | 1/4       | 75  |        |        |
| 68042 | 8       | 5/16      | 70  |        |        |
| 68049 | -       | 3/8       | 110 |        |        |
| 68043 | 10      | -         | 100 |        |        |
| 68050 | -       | 7/16      | 115 |        |        |
| 68044 | 12      | -         | 110 | 15     | •      |
| 68051 | -       | 1/2       | 155 |        |        |
| 68045 | 14      | -         | 145 |        |        |
| 68046 | 15      | -         | 180 |        |        |
| 68047 | 16      | 5/8       | 195 |        |        |
| 68054 | 18      | -         | 200 |        |        |
| 68056 | -       | 3/4       | 200 |        |        |
| 68055 | 22      | -         | 230 |        |        |



■ **TENAZA CURVATUBOS / TUBE BENDER / PINCE À CINTRER / ZWEIHANDBIEGER / PINZA CURVATUBI / CURVADORA PARA TUBOS / ТРУБОГИБ**

| COD.  | O.D. mm | Icon 1 | R (mm) | Kg  | Icon 2 |
|-------|---------|--------|--------|-----|--------|
| 68144 | 10      |        | 26     | 0,3 |        |
| 68145 | 12      |        | 30     | 0,6 |        |
| 68146 | 14      |        | 34     | 0,9 |        |
| 68147 | 15      | 0-180° | 38     | 1,4 | 1      |
| 68148 | 16      |        | 40     | 1,7 |        |
| 68149 | 18      |        | 45     | 2,1 |        |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Aluminio / Aluminum / Aluminium

| COD.  | O.D. mm | O.D. inch | Icon 1 | R (mm) | g    | Icon 2 | Icon 3 |
|-------|---------|-----------|--------|--------|------|--------|--------|
| 68010 | 6       | -         |        | 17     | 500  |        |        |
| 68005 | -       | 1/4       |        |        |      |        |        |
| 68011 | 8       | 5/16      |        | 30     | 600  |        |        |
| 68006 | -       | 3/8       |        |        |      |        |        |
| 68012 | 10      | -         |        |        | 900  |        |        |
| 68013 | 12      | -         | 0-180° | 46     | 950  | 1      | •      |
| 68008 | -       | 1/2       |        |        |      |        |        |
| 68014 | 14      | -         |        | 17     | 1600 |        |        |
| 68015 | 15      | -         |        | 30     | 1700 |        |        |
| 68016 | 16      | 5/8       |        | 46     | 2200 |        |        |



| COD.  | O.D.<br>mm | O.D.<br>inch | °      | R<br>(mm) | g   |   |   |
|-------|------------|--------------|--------|-----------|-----|---|---|
| 68110 | -          | 1/8-3/16-1/4 | 0-90°  | 10        | 140 | 1 | • |
| 68111 | 6-8-10     | 1/4-5/16-3/8 | 0-180° | 20        | 450 |   |   |



■ **ABOCINADORES / FLARING TOOLS / APPAREIL À BATTRE LES COLLETS / BÖRDELGERÄT / FLANGIATUBI / ABOCARDADORES / РАЗВАЛЬЦОВКИ**

**KIT ABOCINADOR CONO EXCÉNTRICO CON CARRACA / ECCENTRIC CONE FLARING TOOL KIT WITH RATCHET / KIT DUDGEONNIERE EXCENTRIQUE À CLIQUET / EXZENTRISCH BÖRDELGERÄT SATZ MIT RATSCHÉ / KIT FLANGIATUBI A FRIZIONE CON CRICCHETTO / KIT ABOCARDADOR CONO EXCÉNTRICO COM ROQUETE / ВАЛЬЦОВКА ДЛЯ ТРУБ С ЭКСЦЕНТРИКОВЫМ ТРЕЩЕТОЧНЫМ МЕХАНИЗМОМ**

| COD.  | O.D.<br>mm                   | O.D.<br>inch                             | ° | Kg  |   |
|-------|------------------------------|------------------------------------------|---|-----|---|
| 57610 | -                            | 1/4, 3/8, 1/2, 5/8, 3/4                  |   | 1,3 |   |
| 57611 | -                            | 1/4, 5/16, 3/8, 1/2, 5/8, 3/4            |   | 1,4 |   |
| 57612 | -                            | 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4 |   | 1,5 |   |
| 57613 | 6, 8, 10, 12, 15             |                                          |   | 1,3 |   |
| 57614 | 6, 8, 10, 12, 16, 18         | -                                        | • | 1,4 | 1 |
| 57615 | 6, 8, 10, 12, 14, 15, 16, 18 |                                          |   | 1,5 |   |
| 57616 | 6, 8, 10, 12, 15             | 1/4, 3/8, 1/2, 5/8, 3/4                  |   | 1,9 |   |
| 57617 | 6, 8, 10, 12, 16, 18         | 1/4, 5/16, 3/8, 1/2, 5/8, 3/4            |   | 2,0 |   |
| 57618 | 6, 8, 10, 12, 14, 15, 16, 18 | 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4 |   | 2,2 |   |



■ **ABOCINADOR CONO EXCÉNTRICO CON CARRACA / ECCENTRIC CONE FLARING TOOL WITH RATCHET / DUDGEONNIERE EXCENTRIQUE À CLIQUET / TAUMEL-BÖRDELGERÄT MIT RATSCHÉ / FLANGIATUBI CON CRICCHETTO / ABOCARDADOR CONO EXCÉNTRICO COM ROQUETE / РАЗВАЛЬЦОВКА С ЭКСЦЕНТРИЧЕСКИМ КОНУСОМ С ТРЕЩЕТКОЙ**

| COD.  | ° | Kg  |   |
|-------|---|-----|---|
| 57603 | • | 0,8 | 1 |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Aluminio / Aluminum / Aluminium

■ **REGLA PARA ABOCINAR / RATCHET FLARING TOOL / RÈGLE À DUDGEONNER / MATRIZE FÜR BÖRDELGERÄT / SLITTA PER FLANGIATUBI / RÉGUA PARA ABOCARDADOR / ВАЛЬЦОВКА ДЛЯ ТРУБ**

| COD.  | O.D.<br>mm                   | O.D.<br>inch                             | ° | g   |   |
|-------|------------------------------|------------------------------------------|---|-----|---|
| 57604 | -                            | 1/4, 3/8, 1/2, 5/8, 3/4                  |   | 530 |   |
| 57605 | -                            | 1/4, 5/16, 3/8, 1/2, 5/8, 3/4            |   | 600 |   |
| 57606 | -                            | 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4 |   | 680 |   |
| 57607 | 6, 8, 10, 12, 15             |                                          | • | 530 | 1 |
| 57608 | 6, 8, 10, 12, 16, 18         | -                                        |   | 600 |   |
| 57609 | 6, 8, 10, 12, 14, 15, 16, 18 |                                          |   | 680 |   |



■ **ABOCINADOR CONO EXCÉNTRICO / ECCENTRIC CONE FLARING TOOL / DUDGEONNIERE EXCENTRIQUE / TAUMEL-BÖRDELGERÄT / FLANGIATUBI CONO ECCENTRICO / ABOCARDADOR CONO EXCÉNTRICO / РАЗВАЛЬЦОВКА С ЭКСЦЕНТРИЧЕСКИМ КОНУСОМ**

| COD.  | ° | Kg  |   |
|-------|---|-----|---|
| 68092 | • | 0,8 | 1 |



■ **ABOCINADOR DE TORRETA / COMPACT FLARING TOOL / DUDGEONNIERE COMPACTE / KOMPAKT BÖRDELGERÄT, AUFKLAPPBAR / FLANGIATUBI A TORRETTA / ABOCARDADOR DE TORRETTA / КОМПАКТНАЯ РАЗВАЛЬЦОВКА**

| COD.  | O.D.<br>mm      | O.D.<br>inch              | ° | Kg  |   |
|-------|-----------------|---------------------------|---|-----|---|
| 68017 | -               | 3/16-1/4-5/16-3/8-1/2-5/8 |   | 1,0 | 1 |
| 68018 | 6-8-10-12-14-15 | -                         | • |     |   |



■ **ABOCINADOR / FLARING TOOL / APPAREIL À BATTRE LES COLLETS / BÖRDELGERÄT / FLANGIATUBI / ABOCARDADOR / РАЗВАЛЬЦОВКИ**

| COD.  | O.D. mm             | O.D. inch                      | 90° | g   |   |
|-------|---------------------|--------------------------------|-----|-----|---|
| 68001 | -                   | 3/16-1/4-5/16-3/8-7/16-1/2-5/8 |     | 950 | 1 |
| 68003 | 4-4,75-6-8-10-12-14 | -                              | ●   |     |   |



■ **EXPANDIDORES / EXPANDING TOOLS / PINCES À EMBOITURE / EXPANDER / ESPANSORI / EXPANDIDORES / МУФТИРУЮЩИЕ ИНСТРУМЕНТЫ**

■ **EXPANKIT**

| COD.  | O.D. mm        | O.D. inch           |                 | Incluye / Includes / Inclus | Kg  |   |
|-------|----------------|---------------------|-----------------|-----------------------------|-----|---|
| 68204 | 12-15-22-28    |                     |                 |                             |     |   |
| 68205 | 12-14-18-22    | -                   |                 |                             | 3,0 |   |
| 68206 | 12-15-18-22    |                     |                 |                             |     |   |
| 68207 |                | 1/2-5/8-3/4-1       | 3-32 mm (63170) | Ø 40 mm (63085)             |     |   |
| 68209 | -              | 3/8-1/2-5/8-3/4-7/8 |                 |                             | 3,1 |   |
| 68220 |                | 1/2-3/4-1           |                 | 68175                       | 3,0 | 1 |
| 68221 | 12-14-16-18-22 |                     |                 |                             | 2,9 |   |
| 68223 | 10-12-14-16-18 |                     |                 |                             | 2,8 |   |
| 68224 | 12-14-16-18    |                     |                 |                             | 2,7 |   |
| 68225 | 12-14-16-18-22 |                     |                 |                             | 2,8 |   |



| COD.  |   | Kg  |   |   |
|-------|---|-----|---|---|
| 68175 | 1 | 1,3 | 1 | ● |








| COD.  | O.D. mm | g   |   |   |
|-------|---------|-----|---|---|
| 68177 | 10      | 125 |   |   |
| 68178 | 12      | 130 |   |   |
| 68179 | 14      | 135 |   |   |
| 68180 | 15      | 140 |   |   |
| 68181 | 16      | 140 |   |   |
| 68182 | 18      | 145 | 8 | ● |
| 68184 | 22      | 150 |   |   |
| 68186 | 28      | 270 |   |   |
| 68188 | 35      | 400 |   |   |
| 68189 | 42      | 430 |   |   |



| COD.  | O.D. inch | g   |   |   |
|-------|-----------|-----|---|---|
| 68190 | 3/8       | 125 |   |   |
| 68191 | 1/2       | 130 |   |   |
| 68192 | 5/8       | 135 |   |   |
| 68193 | 3/4       | 140 |   |   |
| 68194 | 7/8       | 140 | 8 | ● |
| 68195 | 1         | 160 |   |   |
| 68196 | 1.1/8     | 270 |   |   |
| 68198 | 1.3/8     | 400 |   |   |
| 68200 | 1.5/8     | 480 |   |   |








### SWAGING KIT

| COD.         |  |  |  |  |  |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>68060</b> | 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", 3/4"                           | 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4"                                        | 1/8"-1.1/4"<br>(63105)                                                            | 2,8                                                                                | 1                                                                                   |






### KIT FRIGORISTA / KIT REFRIGERATION / KIT FRIGORISTE / KIT KÜHLUNG / KIT FRIGORISTI / KIT FRIGORISTA / НАБОР ДЛЯ ХОЛОДИЛЬЩИКА

| COD.         |  |  |  |  |  |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>68052</b> | 4 - 4,75 - 6 - 8 - 10 - 12 - 14 mm (68003)                                        | 10 (68043), 12 (68045)-14 (68047)-16 (68044) mm                                   | 3-32 mm (63170)                                                                   | 2,3                                                                                | 1                                                                                   |
| <b>68053</b> | 3/16", 1/4", 5/16", 3/8", 1/2", 5/8" (68001)                                      | 5/16" (68042), 3/8" (68049), 5/8" (68047), 1/2" (68051)                           | 1/8"-1.1/8" (63170)                                                               |                                                                                    |                                                                                     |





### PEINE PARA ALETAS 6 EN 1 / 6 IN 1 FIN COMB / PEIGNES POUR LAMES 6 EN 1 / 6 IN 1 MESSKAM / PETTINI PER ALETTE 6 IN 1 / PENTES DE ALHETAS 6 EM 1 / 6 В 1 ГРЕБЕНЫ ДЛЯ ЛЬНА

| COD.         |  |  |  |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>63751</b> | 8-9-10-12-14-15                                                                     | 70                                                                                  | 1                                                                                   |








### PEINE PARA ALETAS METÁLICO / STAINLESS STEEL FIN COMB / PEIGNES POUR LAMES MÉTALLIQUES / MESSKAM ROSTFREI / PETTINI PER ALETTE IN METALLO / PENTES DE ALHETAS METÁLICOS / ГРЕБЕНЫ ДЛЯ ЛЬНА ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ

| COD.         |  |  |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>63752</b> | 30                                                                                  | 6                                                                                   |












### TENAZA GRIP PINZATUBOS / PINCH OFF GRIP PLIER / PINCE ÉTAU POUR TUBES / SCHNEIDGRIPZANGE / PINZA GRIP PER TUBI / ALICATES DE GRIFE DE SELAR PARA REFRIGERAÇÃO / КЛЕЩИ С ПЛАВНОЙ РЕГУЛИРОВКОЙ

| COD.         | L (inch) |  |  |  |  |  |
|--------------|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>63753</b> | 7        | 8,0                                                                                 | 5/16                                                                                | 330                                                                                 | 6                                                                                   | ●                                                                                     |



### LLAVE DE CHICHARRA / RATCHET WRENCH / PINCE À CLIQUET / RATSCHENSCHLÜSSEL / CHIAVE A CRICCO / CHAVES DE ROQUETE / ТРЕЩЕТКА

| COD.         |  |  |  |  |                                                                                       |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>63754</b> | 1/4, 3/8, 3/16, 5/16                                                                | 95                                                                                  | 12                                                                                  | ●                                                                                    |                                                                                       |
| COD.         |  |  |  |   |  |
| <b>63755</b> | 1/4, 3/16                                                                           | 1/2, 9/16                                                                           | 160                                                                                 | 12                                                                                   | ●                                                                                     |



**ENSANCHADORES DE GOLPE / SWAGING PUNCHES / CHASSES GOUPILLES À EMBOITURE / KLEMM DURCHSCHLAG / CALIBRATORE PER TUBI / PUNÇÕES PARA ABOCARDAR / ПРОБОЙНИКИ**

**SET**

| COD.         | O.D.<br>inch             | g   |   |
|--------------|--------------------------|-----|---|
| <b>63756</b> | 1/4, 5/16, 3/8, 1/2, 5/8 | 550 | 6 |



**ENSANCHADOR DE GOLPE 3 EN 1 / 3 IN 1 SWAGING PUNCH / CHASSES GOUPILLES À EMBOITURE 3 EN 1 / 3 IN 1 KLEMM DURCHSCHLAG / CALIBRATORI PER TUBI 3 IN 1 / PUNÇÕES PARA ABOCARDAR 3 EM 1 / 3 В 1 ПРОБОЙНИКИ**

| COD.         | O.D.<br>inch  | g   |   |   |
|--------------|---------------|-----|---|---|
| <b>63757</b> | 1/2, 5/8, 7/8 | 550 | 6 | ● |



**ENSANCHADOR DE GOLPE 5 EN 1 / 5 IN 1 SWAGING PUNCH / CHASSES GOUPILLES À EMBOITURE 5 EN 1 / 5 IN 1 KLEMM DURCHSCHLAG / CALIBRATORI PER TUBI 5 IN 1 / PUNÇÕES PARA ABOCARDAR 5 EM 1 / 5 В 1 ПРОБОЙНИКИ**

| COD.         | O.D.<br>inch             | g   |   |   |
|--------------|--------------------------|-----|---|---|
| <b>63758</b> | 1/4, 5/16, 3/8, 1/2, 5/8 | 280 | 6 | ● |



**PINZA CORTACAPILARES / CAPILLARY TUBE CUTTER / PINCE COUPE CAPILAIRES / MIKROSTRIPPER ZANGE / PINZA TAGLIACAPILLARI / ALICATES CORTA CAPILARES / ТРУБОРЕЗ ДЛЯ КАПИЛЛЯРНЫХ ТРУБОК**

| COD.         | O.D.<br>mm | g  |   |   |
|--------------|------------|----|---|---|
| <b>63759</b> | 1-3        | 85 | 6 | ● |



**PARA LAVABO / BASIN TOOLS / OUTILS LAVABO / WERKZEUG FÜR WASCHBECKEN / UTENSILI PER LAVABI / FERRAMENTA PARA LAVABO / ИНСТРУМЕНТЫ ДЛЯ РАКОВИН, РАДИАТОРОВ**

**LLAVE PARA RADIADORES / RADIATOR SPUD WRENCH / CLÉ DE MONTAGE / SPEZIAL RATSCHKE FÜR HEIZKÖRPER / CHIAVE DI MONTAGGIO / CHAVE DE MONTAGEM / РАДИАТОРНЫЙ КЛЮЧ**

| COD.         |
|--------------|
| <b>61168</b> |



| COD.         |
|--------------|
| <b>61169</b> |



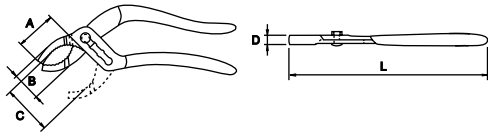
**KIT**

| COD.         | g   |   |
|--------------|-----|---|
| <b>61167</b> | 490 | 1 |



| COD. PCS. | O.D.<br>inch  |
|-----------|---------------|
| 61168     | 3/8-1/2-3/4-1 |
| 61169     |               |

■ **TENAZA DE SIFÓN / SYPHON PLIER / PINCE SANIGRIP / SIPHONZANGE / PINZA PER SIFONI / ALICATE DE SIFÃO / КЛЕЩИ ДЛЯ СИФОНОВ**



| COD.         | L (inch) | A (mm) | B (mm) | C (mm) | D (mm) |     |   |   |
|--------------|----------|--------|--------|--------|--------|-----|---|---|
| <b>62136</b> | 10       | 45     | 36     | 60     | 15     | 300 | 6 | ● |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fundas blandas / Soft sleeves / Mâchoires de protection en plastique molle



■ **KIT REPARADOR DE GRIFOS / VALVE RESEATER / KIT PLOMBIER / WASSERHAHN-FRÄSGERÄT / KIT APPARECHI PER RUBINETTI / KIT REPARADOR DE TORNEIRAS / НАБОР ДЛЯ ПРИТЯЖКИ КРАНОВ**

| COD.         |                   |     |   |   |
|--------------|-------------------|-----|---|---|
| <b>68059</b> | 10-12-13-14-15-16 | 380 | 1 | ● |

| COD.         |                   |     |   |   |
|--------------|-------------------|-----|---|---|
| <b>68058</b> | 10-12-13-14-15-16 | 400 | 1 | ● |



■ **LLAVES DE LAVABO / BASIN WRENCHES / CLÉS LAVABO / STANDHAHNMUTTERNSCHLÜSSEL / CHIAVI PER LAVABI / CHAVES DE LAVABO / КЛЮЧ ДЛЯ РАКОВИН**

■ **STANDARD**

| COD.         |       | L (mm) |     |   |   |
|--------------|-------|--------|-----|---|---|
| <b>61008</b> | 10-32 | 288    | 490 | 6 | ● |



■ **TELESCOPIC**

| COD.         |       | L (mm) |     |   |   |
|--------------|-------|--------|-----|---|---|
| <b>61009</b> | 10-32 | 460    | 700 | 6 | ● |



| COD.         |       | L (mm) |     |   |   |
|--------------|-------|--------|-----|---|---|
| <b>61000</b> | 15-32 | 240    | 500 | 6 | ● |



| COD.         |         | L (mm) |     |   |   |
|--------------|---------|--------|-----|---|---|
| <b>61325</b> | 1-1.1/4 | 240    | 300 | 6 | ● |

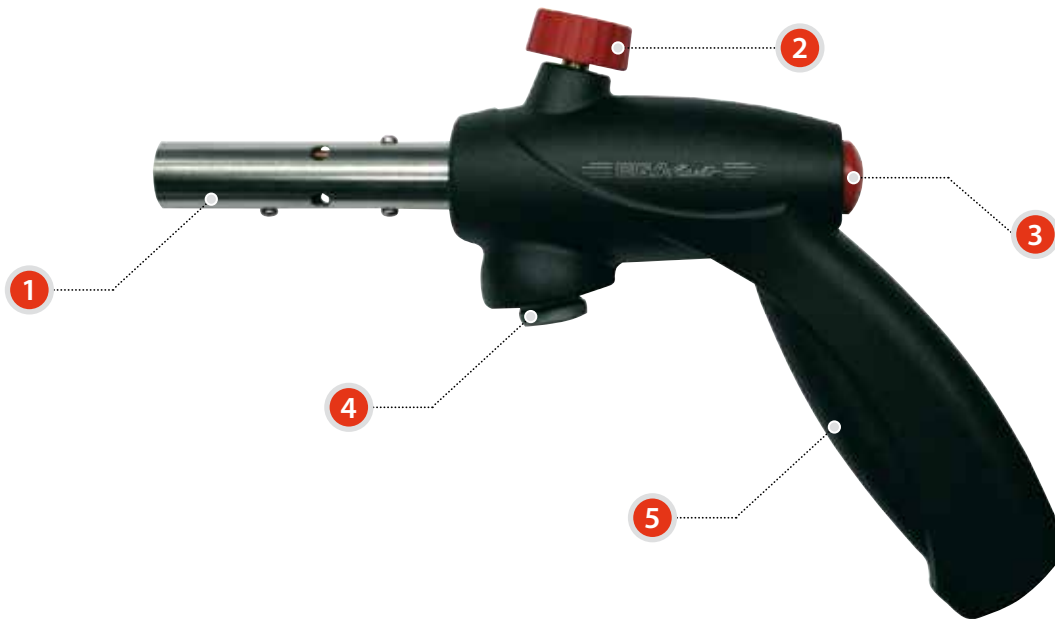




22

**SOLDADURA**  
**SOLDERING**  
**SOUDURE**  
**SCHWEISSEN**  
**SALDATURA**  
**SOLDADURA**  
**ПАЙКА**





1

Excelente resistencia a altas temperaturas llegando incluso hasta 1750 °C.

*Excellent resistance to high temperatures, reaching even 1750°C.*

Excellente résistance aux hautes températures, supportant jusqu'à 1750°C.

2

El regulador de gas permite modificar las dimensiones de la llama.

*The gas regulator allows the adjustment of the flame dimensions.*

Le régulateur de gaz permet la variation des flammes.

3

Auto-encendido piezoléctrico para evitar el uso de agentes externos.

*Piezoelectric self-ignition to avoid using external agents.*

Auto-allumage piézoélectrique pour éviter l'utilisation d'agents extérieurs.

4

Disponible para cartuchos estándar con rosca 7/16".

*Available for standard cartidges with 7/16" thread.*

Disponible pour des cartouches standards avec filetage de 7/16".

5

Agarre ergonómico para un uso cómodo y eficaz.

*Ergonomic handle for a comfortable and effective use.*

Prise ergonomique pour une utilisation commode et efficace.



Con abundantes modelos de sopletes con encendido piezoléctrico para adaptarse a los distintos tipos de uso.

*Several models of torches with piezoelectric ignition for all different professional uses.*

Avec d'abondants modèles de chalumeaux dotés d'un allumage piézoélectrique pour tout type d'usage.





Existen diversas soluciones para trabajos en los que no sea posible el acceso de bombonas.

*There are several solutions for jobs in which the use of gas cylinders is not possible.*

Il existe plusieurs solutions de travail pour les accès impossible avec des bombones.



**CANDLEJA / BLOWLAMP / CHALUMEAU / GAS-LÖTBRENNER / LAMPADA PER SILDARE / SOPRADOR / ГОРЕЛКА**

| COD.         | Piezoeléctrico / Piezoelectric / Piezoelectrique | 360° |  |  |  |
|--------------|--------------------------------------------------|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>63219</b> | •                                                | •    | •                                                                                 | 750                                                                               | 1                                                                                   |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Suministrado sin cartucho de gas / Supplied without gas cartridges / Fourni sans cartouche de gaz

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Tmax. (°C) 1100


**SOLDADOR DE ESTAÑO / TIN SOLDERING IRON / SOUDAGE À L'ÉTAÏN / LÖTKOLBEN / SALDATOIO DELLA LATTÀ / DE SOLDAR A ESTANHO / ПАЙКА**

| COD.         |  |  |  |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>63235</b> | 310                                                                               | 6                                                                                 | 1                                                                                 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Tmax. (°C) 1450


**SOPLETES / TORCHES / CHALUMEAUX / LÖTGERÄT / TORCIA / MAÇARICOS / ГОРЕЛКА**
**SOPLETES PIEZOELÉCTRICOS / PIEZOELECTRIC TORCHES / CHALUMEAUX PIEZOELECTRIQUES / ELEKTRISCHES LÖTGERÄT / TORCIA PIEZOELETTRICO / MAÇARICOS ELÉCTRICOS / БЕЗОПЛЕКТРИЧЕСКАЯ ГОРЕЛКА**

| COD.         | Piezoeléctrico / Piezoelectric / Piezoelectrique | 360° |  |  |  |  |  |
|--------------|--------------------------------------------------|------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>63232</b> | •                                                | •    | •                                                                                  | 7/16                                                                               | 320                                                                                | 6                                                                                  | 1                                                                                    |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Tmax. (°C) 1000-1250




| COD.         | Piezoeléctrico / Piezoelectric / Piezoelectrique | 360° |  |  |  |  |  |
|--------------|--------------------------------------------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>63234</b> | •                                                | •    | •                                                                                   | 7/16                                                                                | 160                                                                                 | 6                                                                                   | 1                                                                                     |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

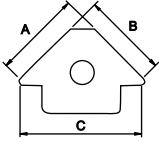
Tmax. (°C) 1000-1250



**ACCESORIOS / SPARE PARTS / RECHANGES / ZUBEHÖR / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

| COD.         | L (mm) |  |  |
|--------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>63242</b> | 200    | 200                                                                                 | 1                                                                                   |


 Permite trabajar en posición invertida  
 Also for overhead operation  
 Permet travailler en position inverse



 Regulador del caudal  
 Flow regulator  
 Régulateur du flux

**ESCUADRA MAGNÉTICA PARA SOLDADURA / MAGNETIC WELDING SQUARE / EQUERRE MAGNETIQUE POUR SOUDURE / MAGNETISCHE SCHWEISSWINKELHAKEN / SQUADRA MAGNETICA PER SOLDATORI / ESQUADRO MAGNÉTICO PARA SOLDADURA / ЗОНА ДЛЯ СВАРКИ МАГНИТНАЯ**




| COD.         | A (mm) | B (mm) | C (mm) | Grosor (mm) / Thickness (mm) / Épaisseur (mm) | Kg  |  |
|--------------|--------|--------|--------|-----------------------------------------------|-----|-------------------------------------------------------------------------------------|
| <b>65766</b> | 85     | 85     | 120    | 15                                            | 0,5 | 6                                                                                   |

**MAGNET**



**CEPILLOS / BRUSHES / BROSSES / BÜRSTE / SPAZZOLE / ESCOVAS / ЩЕТКИ**
**CEPILLO UNIVERSAL / UNIVERSAL BRUSH / BROSE UNIVERSELLE / UNIVERSALE BRÜSTE / SPAZZOLE UNIVERSALI / ESCOVA UNIVERSAL / УНИВЕРСАЛЬНАЯ ЩЕТКА**

| COD.         | MAT.                                                   | L (mm) |  |  |
|--------------|--------------------------------------------------------|--------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>61578</b> | Acero latonado / <i>Brassed steel</i> / Acier laitonné | 250    | 100                                                                               | 3                                                                                  |


**CEPILLO SOLDADURA / SOLDERING BRUSH / BROSE DE SOUDURE / LÖTBÜRSTE / SPAZZOLE PER SALDATORI / ESCOVA SOLDADURA / ЩЕТКА СВАРЩИКА**

| COD.         | N.º filas / Rows / Rangées | MAT.                                                         | L (mm) |  |  |
|--------------|----------------------------|--------------------------------------------------------------|--------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>61570</b> | 3                          | Acero inoxidable / <i>Stainless steel</i> / Acier inoxydable | 290    | 100                                                                                | 3                                                                                    |
| <b>61572</b> | 5                          | Acero inoxidable / <i>Stainless steel</i> / Acier inoxydable | 290    | 120                                                                                | 3                                                                                    |


**CEPILLO SOLDADURA CON MANGO DE PLÁSTICO / PLASTIC HANDLE SOLDERING BRUSH / BROSE DE SOUDURE AVEC MANCHE PLASTIQUE / LÖTBÜRSTE MIT KUNSTSTOFF GRIFF / SPAZZOLE PER SALDATORI CON MANICO IN PLASTICA / ESCOVA SOLDADURA COM CABO PLÁSTICO / ЩЕТКА СВАРЩИКА С ПЛАСТИКОВОЙ РУЧКОЙ**

| COD.         | N.º filas / Rows / Rangées | MAT.                                                         | L (mm) |  |  |
|--------------|----------------------------|--------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>61579</b> | 4                          | Acero inoxidable / <i>Stainless steel</i> / Acier inoxydable | 280    | 120                                                                                 | 3                                                                                     |



| COD.         | N.º filas / Rows / Rangées | MAT.                                                   | L (mm) |  |  |
|--------------|----------------------------|--------------------------------------------------------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>61580</b> | 4                          | Acero latonado / <i>Brassed steel</i> / Acier laitonné | 280    | 120                                                                                 | 3                                                                                     |



| COD.         | N.º filas / Rows / Rangées | MAT.                          | L (mm) |  |  |
|--------------|----------------------------|-------------------------------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>61581</b> | 4                          | Latón / <i>Brass</i> / Laiton | 280    | 120                                                                                 | 3                                                                                     |



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**HERRAMIENTA PARA PLÁSTICO**  
**TOOLS FOR PLASTIC**  
**OUTILLAGE POUR PLASTIQUE**  
**WERKZEUGE FÜR PLASTIK**  
**UTENSILI PER PLASTICA**  
**FERRAMENTAS PARA PLÁSTICO**  
**ИНСТРУМЕНТЫ ДЛЯ ПЛАСТИКА**





### Medalla de Plata

Salón Internacional  
de la Invención

París 2004

### Silver Medal

International Inventors  
Competition

Paris 2004

### Medaille d'Argent

Salon International  
de l'Invention

Paris 2004

El especial diseño patentado de cuchilla y la geometría precisa del ángulo de ataque hacen del cortatubos Piraina de EGA Master el más versátil para cortar tubos de PE, PP, PB, VPE, PVDF, PEX, Multicapa e incluso de PVC rígido sin riesgo a que el tubo se fracture en pedazos.

*The special patented design of the blade and the accurate geometry of the attack angle, make the EGA Master Piraina® plastic pipe cutter the most versatile tool to cut PE, PP, PB, VPE, PVDF, PEX, Multilayer pipes, even rigid PVC pipes, without risk of pipe breaking.*

Le dessin original breveté de la lame et la géométrie précise de l'angle d'attaque, font du coupe tube Piraina de EGA Master, l'outil le plus versatile pour couper des tubes en PE, PP, PB, VPE, PVDF, PEX, Multicouches et aussi le PVC rigide, sans risque de le fendre ou de le casser.

El único cortatubos que puede cortar, además, tubos de Kevlar (SAE 100 R8).

*The only pipe cutter also able to cut Kevlar pipes (SAE 100 R8).*

L'unique coupe tubes capable de couper des tubes en Kevlar (SAE 100 R8) aussie.



Esencial para profesionales con las más altas exigencias.  
*Essential for demanding professionals.*  
Essentiel pour les professionnels les plus exigeants.

Por todo ello fue merecedor de la **Medalla de Plata** en el Salón Internacional de la Invención, Concours Lepine, París, mayo 2004.

*Due to these reasons, it won the Silver Medal in the prestigious International Inventors Competition in Paris, may 2004.*

Pour ces raisons, il fut récompensé de la **Médaille d'Argent**, au Salon International de l'Innovation, Concours Lépine, Paris, mai 2004.



Geometría de precisión  
*Precise geometry*  
Géométrie de précision



Kevlar



PVC rígido  
*Rigid PVC*  
PVC rigide

**CORTATUBOS PARA TUBO DE PLÁSTICO / PLASTIC PIPE CUTTER / COUPE-TUBE PLASTIQUE / KUNSTSTOFFROHRSCHERE / CESCOIA PER TUBI DI PLASTICA / TESOURA PARA TUBO DE PLASTICO / ТРУБОРЕЗ ДЛЯ ПЛАСТИКА**

**PIRAINA®**

| COD.  | O.D.<br>mm | O.D.<br>inch | g   |   |   | V     |
|-------|------------|--------------|-----|---|---|-------|
| 63205 | 42         | 1.5/8        | 550 | 6 | ● | 64045 |
| 63204 |            |              |     |   |   | 64039 |

Modelo registrado / Registered model / Modèle enregistré

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Válido para / Valid for / Valable pour

|       |                                                                    |
|-------|--------------------------------------------------------------------|
| 63205 | KEVLAR, PVC, PE, PP, PB, VPE, PVDF, MLP, HTA, PPR, PEX, MULTILAYER |
| 63204 | PVC, PE, PP, PB, VPE, PVDF, MLP, HTA, PPR, PEX, MULTILAYER         |



| COD.  | O.D.<br>mm | O.D.<br>inch | g   |   |   | V     |
|-------|------------|--------------|-----|---|---|-------|
| 63846 | 51         | 2            | 475 | 6 | ● | 64751 |
| 63847 | 64         | 2.1/2        | 550 |   |   | 64752 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Válido para / Valid for / Valable pour

KEVLAR, PVC, PE, PP, PB, VPE, PVDF, MLP, HTA, PPR, PEX, MULTILAYER



**PVC**

| COD.  | O.D.<br>mm | O.D.<br>inch | g   |   |   | V     |
|-------|------------|--------------|-----|---|---|-------|
| 63199 | 35         | 1.3/8        | 175 | 6 | ● | 64688 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Válido para / Valid for / Valable pour

PB, PEX, MULTILAYER



**STANDARD**

| COD.  | O.D.<br>mm | O.D.<br>inch | g   |   |   | V     |
|-------|------------|--------------|-----|---|---|-------|
| 63200 | 42         | 1.5/8        | 250 | 6 | ● | 64003 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Válido para / Valid for / Valable pour

PE, PP, PB, VPE, PVDF, MLP, PPR, PEX, MULTILAYER



| COD.  | O.D.<br>mm | O.D.<br>inch | g    |   |   | V     |
|-------|------------|--------------|------|---|---|-------|
| 63933 | 63         | 2.1/2        | 1200 | 1 | ● | 63940 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Válido para / Valid for / Valable pour

PE, PP, PB, VPE, PVDF, MLP, PPR, PEX, MULTILAYER



**CORTATUBOS AUTOMÁTICO PARA TUBO DE PLÁSTICO / AUTOMATIC PLASTIC PIPE CUTTER / COUPE-TUBE PLASTIQUE AUTOMATIQUE / AUTOMATIK-KUNSTSTOFFROHRSCHERE / TAGLIATUBI AUTOMATICO PER TUBI DI PLASTICA / CORTA TUBOS DE PLASTICO / АВТОМАТИЧЕСКИЙ ТРУБОРЕЗ ДЛЯ ПЛАСТИКА**

| COD.  | O.D.<br>mm | O.D.<br>inch | g   |   |   | V     |
|-------|------------|--------------|-----|---|---|-------|
| 63201 | 35         | 1.3/8        | 550 | 1 | ● | 64004 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Válido para / Valid for / Valable pour

KEVLAR, PVC, PE, PP, PB, VPE, PVDF, MLP, HTA, PPR, PEX, MULTILAYER



| COD.         | O.D. mm | O.D. inch | g   |   |   |       |
|--------------|---------|-----------|-----|---|---|-------|
| <b>63202</b> | 42      | 1.5/8     | 700 | 1 | ● | 64034 |

Modelo registrado / Registered model / Modèle enregistré

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Válido para / Valid for / Valable pour **KEVLAR, PVC, PE, PP, PB, VPE, PVDF, MLP, HTA, PPR, PEX, MULTILAYER**



**UNIQUE**

| COD.         | O.D. mm | O.D. inch | MAT.    | g   |   |   |       |    |
|--------------|---------|-----------|---------|-----|---|---|-------|----|
| <b>63079</b> | 6-35    | 1/4-1.3/8 | PLASTIC | 500 | 1 | ● | 63112 | 10 |
| <b>63120</b> | 6-42    | 1/4-1.5/8 |         | 550 | 8 |   |       |    |
| <b>63189</b> | 6-45    | 1/4-1.3/4 |         | 600 | 1 |   |       |    |



**AUTOMATIC 50**

| COD.         | O.D. mm | O.D. inch | MAT.    | g   |   |   |       |    |
|--------------|---------|-----------|---------|-----|---|---|-------|----|
| <b>63365</b> | 6-50    | 1/4-2     | PLASTIC | 450 | 1 | ● | 63722 | 10 |



**AUTOMATIC 67**

| COD.         | O.D. mm | O.D. inch | MAT.    | g   |   |   |       |    |
|--------------|---------|-----------|---------|-----|---|---|-------|----|
| <b>63108</b> | 6-67    | 1/4-2.5/8 | PLASTIC | 750 | 1 | ● | 63081 | 10 |



**AUTOMATIC 127**

| COD.         | O.D. mm | O.D. inch | MAT.    | g    |   |   |       |    |
|--------------|---------|-----------|---------|------|---|---|-------|----|
| <b>63173</b> | 50-127  | 2-5       | PLASTIC | 1950 | 1 | ● | 64105 | 10 |



**ESCARIADOR EXTERIOR PARA TUBO DE PLÁSTICO / EXTERNAL REAMER FOR PLASTIC PIPE / EBAVUREUR À TUBE / ANFASGERÄT FÜR KUNSTSTOFFROHRE / SBAVATORE ESTERNI PER TUBO DI PLASTICA / ESCARIADOR EXTERIOR PARA TUBO DE PLÁSTICO / ВНЕШНЯЯ РАЗВЕРТКА ДЛЯ ПЛАСТИКОВЫХ ТРУБ**

| COD.         | O.D. mm | O.D. inch    | Kg  |   |       |
|--------------|---------|--------------|-----|---|-------|
| <b>67977</b> | 25-160  | 1-6.5/16     | 0,8 | 1 | 67979 |
| <b>67978</b> | 40-315  | 1.3/8-12.3/8 | 1,4 |   | 67980 |





**SOLDADOR TUBO DE PLÁSTICO / PLASTIC PIPE WELDER / APPAREIL À SOUDER / MUFFENSCHWEISSGERÄT / POLIFUSORE / SOLDADOR DE TUBO PLÁSTICO / ПАЯЛЬНИК ДЛЯ ПЛАСТИКОВЫХ ТРУБ**

**SOLDAMATIC DIGITAL 800 / DIGITAL SOLDAMATIC 800 / SOLDAMATIC DIGITAL 800 / DIGITALES SOLDIERAPPARAT 800 / POLIFUSORE DIGITALE 800 / SOLDAMATIC DIGITAL 800 / ЦИФРОВОЙ ПАЯЛЬНИК SOLDAMATIC 800**

| COD.         | O.D.<br>mm | W   | V                 | Kg  |   |
|--------------|------------|-----|-------------------|-----|---|
| <b>62884</b> | 20-63      | 800 | 110-130V(50-60Hz) | 1,8 | 1 |

CE I 12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                       |             |
|-----------------------------------------------------------------------|-------------|
| Válido para / Valid for / Valable pour                                | PE, PB, PPR |
| Temperatura de trabajo / Working temperature / Température de travail | 200-290 °C  |



**SOLDAMATIC DIGITAL 800 CON VASOS 20, 25, 32 / DIGITAL SOLDAMATIC 800 WITH SOCKETS 20,25,32 / SOLDAMATIC DIGITAL 800 AVEC DOUILLE 20,25,32 / DIGITALES SOLDIERAPPARAT 800 MIT KÖPFE 20,25,32 / POLIFUSORE DIGITALE 800 CON BUSSOLE 20,25,32 / SOLDAMATIC DIGITAL 800 COM MATRIZES 20,25,32 / ЦИФРОВОЙ ПАЯЛЬНИК SOLDAMATIC 800 С РОЗЕТКАМИ 20,25,32**

| COD.         | O.D.<br>mm | Vasos incluidos /<br>Included Sockets /<br>Douilles incluses | W   | V                 | Kg  |   |
|--------------|------------|--------------------------------------------------------------|-----|-------------------|-----|---|
| <b>62886</b> | 20-63      | 20-25-32                                                     | 800 | 110-130V(50-60Hz) | 2,4 | 1 |

CE I 12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                       |             |
|-----------------------------------------------------------------------|-------------|
| Válido para / Valid for / Valable pour                                | PE, PB, PPR |
| Temperatura de trabajo / Working temperature / Température de travail | 200-290°C   |



**SOLDAMATIC DIGITAL 1200 / DIGITAL SOLDAMATIC 1200 / SOLDAMATIC DIGITAL 1200 / DIGITALES SOLDIERAPPARAT 1200 / POLIFUSORE DIGITALE 1200 / SOLDAMATIC DIGITAL 1200 / ЦИФРОВОЙ ПАЯЛЬНИК SOLDAMATIC 1200**

| COD.         | O.D.<br>mm | W    | V                 | Kg  |   |
|--------------|------------|------|-------------------|-----|---|
| <b>62889</b> | 20-125     | 1200 | 220-240V(50-60Hz) | 2,5 | 1 |
| <b>62888</b> |            |      | 110-130V(50-60Hz) |     |   |

CE I 12M




**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                       |             |
|-----------------------------------------------------------------------|-------------|
| Válido para / Valid for / Valable pour                                | PE, PB, PPR |
| Temperatura de trabajo / Working temperature / Température de travail | 200-290 °C  |



12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

**SOLDAMATIC DIGITAL 1200 CON VASOS 75, 90, 110 / DIGITAL SOLDAMATIC 1200 WITH SOCKETS 75, 90, 110 / SOLDAMATIC DIGITAL 1200 AVEC DOUILLE 75, 90, 110 / DIGITALES  
 SOLDIERAPPARAT 1200 MIT KÖPFE 75,90,110 / POLIFUSORE DIGITALE 1200 CON BUSSOLE 75, 90, 110 / SOLDAMATIC DIGITAL 1200 COM MATRIZES 75,90, 110 / ЦИФРОВОЙ  
 ПАЯЛЬНИК SOLDAMATIC 1200 С РОЗЕТКАМИ 75, 90, 110**

| COD.         |  O.D.<br>mm | Vasos incluidos /<br>Included Sockets /<br>Douilles incluses | W    | V                 |  Kg |  |
|--------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------|------|-------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>62891</b> | 20-125                                                                                       | 75-90-110                                                    | 1200 | 220-240V(50-60Hz) | 5,0                                                                                  | 1                                                                                   |
| <b>62890</b> |                                                                                              |                                                              |      | 110-130V(50-60Hz) |                                                                                      |                                                                                     |




CE I 12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                       |             |
|-----------------------------------------------------------------------|-------------|
| Válido para / Valid for / Valable pour                                | PE, PB, PPR |
| Temperatura de trabajo / Working temperature / Température de travail | 200-290 °C  |



**VASOS / SOCKETS / DOUILLE / STECKSCHLÜSSEL / BUSTA / CABEÇA MOLDE / РОЗЕТКИ**

| COD.         |  O.D.<br>mm |  g |  |
|--------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>62892</b> | 20                                                                                           | 75                                                                                  | 1                                                                                  |
| <b>62893</b> | 25                                                                                           | 115                                                                                 |                                                                                    |
| <b>62894</b> | 32                                                                                           | 175                                                                                 |                                                                                    |
| <b>62895</b> | 40                                                                                           | 370                                                                                 |                                                                                    |
| <b>62896</b> | 50                                                                                           | 420                                                                                 |                                                                                    |
| <b>62897</b> | 63                                                                                           | 550                                                                                 |                                                                                    |
| <b>62898</b> | 75                                                                                           | 400                                                                                 |                                                                                    |
| <b>62899</b> | 90                                                                                           | 600                                                                                 |                                                                                    |
| <b>62900</b> | 110                                                                                          | 1000                                                                                |                                                                                    |
| <b>62901</b> | 125                                                                                          | 1300                                                                                |                                                                                    |



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HERRAMIENTA PARA MADERA  
TOOLS FOR WOOD  
OUTILLAGE POUR LE BOIS  
WERKZEUGE FÜR HOLZ  
UTENSILI PER LEGNO  
FERRAMENTAS PARA MADEIRA  
ИНСТРУМЕНТ ДЛЯ ДЕРЕВА



■ FORMONES / FIRMER CHISELS / CISEAUX À BOIS / STECHBEITEL / SCALPELLI / FORMOES / СТАМЕЦКИ

Hoja de acero especial, rectificada / Precision machined steel blade / En acier special trempé et poli / Geschliffene stechbeitel aus spezialstahl / Lama-inacciaio speciało rettificata / Lâmina de aço especial rectificada / Стальная режущая часть сверхточной обработки

■ TITACROM® BIMAT

| COD.  |  |  |  |  |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 67169 | 6                                                                                 | 130                                                                               |                                                                                   |                                                                                    |
| 67170 | 8                                                                                 | 135                                                                               |                                                                                   |                                                                                    |
| 67171 | 10                                                                                | 140                                                                               |                                                                                   |                                                                                    |
| 67172 | 12                                                                                | 145                                                                               |                                                                                   |                                                                                    |
| 67173 | 14                                                                                | 150                                                                               |                                                                                   |                                                                                    |
| 67174 | 15                                                                                | 155                                                                               |                                                                                   |                                                                                    |
| 67175 | 16                                                                                | 160                                                                               | 12                                                                                | •                                                                                  |
| 67176 | 18                                                                                | 170                                                                               |                                                                                   |                                                                                    |
| 67177 | 20                                                                                | 175                                                                               |                                                                                   |                                                                                    |
| 67178 | 22                                                                                | 180                                                                               |                                                                                   |                                                                                    |
| 67179 | 25                                                                                | 190                                                                               |                                                                                   |                                                                                    |
| 67180 | 30                                                                                | 200                                                                               |                                                                                   |                                                                                    |
| 67181 | 32                                                                                | 210                                                                               |                                                                                   |                                                                                    |



TITACROM® BIMAT | DIN 5139


■ EXPOSITORES / DISPLAYS / PRESENTOIRS / DISPLAY / ESPOSITORI / EXPOSIÇÃO INDIVIDUAL / СТЕНДЫ

■ TITACROM® BIMAT

■ 60 PCS.

| COD.  | PCS. |
|-------|------|
| 55665 | 60   |

| PCS. | COD. PCS. |  |
|------|-----------|-------------------------------------------------------------------------------------|
| 6    | 67169     | 6                                                                                   |
|      | 67170     | 8                                                                                   |
|      | 67171     | 10                                                                                  |
|      | 67172     | 12                                                                                  |
|      | 67174     | 15                                                                                  |
|      | 67176     | 18                                                                                  |
|      | 67177     | 20                                                                                  |
|      | 67178     | 22                                                                                  |
|      | 67179     | 25                                                                                  |
|      | 67180     | 30                                                                                  |




■ KITS

■ TITACROM® BIMAT

■ 4 PCS.

| COD.  | PCS. |
|-------|------|
| 69481 | 4    |




  

| PCS. | COD. PCS. |  |
|------|-----------|-------------------------------------------------------------------------------------|
| 1    | 67171     | 10                                                                                  |
|      | 67172     | 12                                                                                  |
|      | 67174     | 15                                                                                  |
|      | 67176     | 18                                                                                  |



• Presentador individual / Individual display / Conditionnement unitaire



■ CEPILLOS / JACK PLANES / RABOTS / SCHLICHTHOBEL / PIALLA / PLAINAS / РУБАНКИ

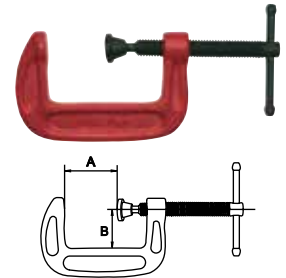
| COD.  | L (mm) |  |  |  |
|-------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 67052 | 350    | 2,0                                                                               | 1                                                                                 | 64239                                                                              |



■ SARGENTOS / CLAMPS / SERRE-JOINTS / ZWINGEN / MORSETTI SERRAGIUNTI / GRAMPOS / СТРУБЦИНЫ

■ MOD. G



| COD.  | A max (mm) | B (mm) |  |  | Kgf * |
|-------|------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------|
| 69570 | 50         | 30     | 195                                                                               | 6                                                                                 | 120   |
| 69571 | 75         | 52     | 700                                                                               | 6                                                                                 | 150   |
| 69572 | 100        | 60     | 900                                                                               | 4                                                                                 | 255   |
| 69574 | 150        | 65     | 1600                                                                              | 3                                                                                 | 355   |
| 69575 | 200        | 83     | 1900                                                                              | 3                                                                                 | 400   |

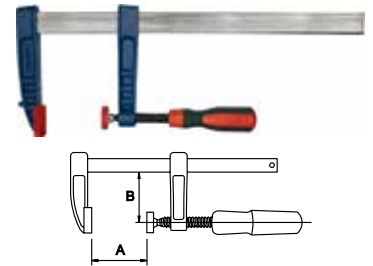


CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Kgf \*: fuerza de amarre / Kgf \*: fastening force / Kgf \*: force de serrage

■ MOD. F



| COD.  | A max (mm) | B (mm) |  |  | Kgf * |
|-------|------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|
| 69580 | 150        | 50     | 450                                                                                 | 6                                                                                   | 225   |
| 69581 | 200        | 50     | 600                                                                                 | 6                                                                                   | 225   |
| 69582 | 250        | 80     | 1000                                                                                | 6                                                                                   | 360   |
| 69583 | 250        | 80     | 1150                                                                                | 6                                                                                   | 360   |
| 69585 | 300        | 120    | 1600                                                                                | 2                                                                                   | 600   |
| 69586 | 400        | 120    | 1800                                                                                | 2                                                                                   | 600   |
| 69588 | 600        | 120    | 2200                                                                                | 2                                                                                   | 600   |
| 69589 | 800        | 120    | 2700                                                                                | 2                                                                                   | 600   |
| 69590 | 1000       | 120    | 3000                                                                                | 2                                                                                   | 600   |

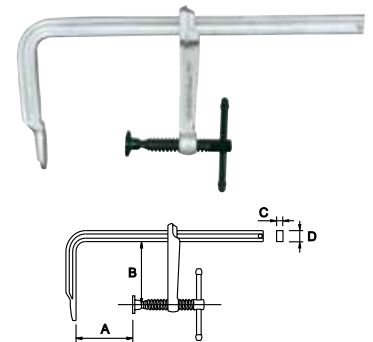


CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Kgf \*: fuerza de amarre / Kgf \*: fastening force / Kgf \*: force de serrage

■ FORJADO / FORGED / FORGÉ / GESCHMIEDET / FORGIATO / FORJADO / ЗАКАЛЕННАЯ

| COD.  | A max (mm) | B (mm) | C (mm) | D (mm) |  |  | Kgf * |
|-------|------------|--------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|
| 69961 | 250        | 80     | 6      | 15,5   | 650                                                                                 | 6                                                                                   | 255   |
| 69965 | 250        | 80     | 6      | 15,5   | 900                                                                                 | 6                                                                                   | 255   |
| 69967 | 400        | 100    | 9,5    | 19     | 1200                                                                                | 2                                                                                   | 300   |
| 69968 | 500        | 100    | 9,5    | 19     | 1600                                                                                | 2                                                                                   | 300   |
| 69970 | 250        | 120    | 10     | 21,5   | 1100                                                                                | 2                                                                                   | 400   |
| 69972 | 400        | 120    | 10     | 21,5   | 1400                                                                                | 2                                                                                   | 400   |
| 69975 | 800        | 120    | 10     | 21,5   | 1900                                                                                | 2                                                                                   | 400   |
| 69977 | 1200       | 120    | 10     | 21,5   | 2900                                                                                | 2                                                                                   | 400   |



CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Kgf \*: fuerza de amarre / Kgf \*: fastening force / Kgf \*: force de serrage

# PROYECTOS PRINCIPALES

## *MAIN PROJECTS*

# PRINCIPAUX PROJETS

**CENTRAL HIDROELÉCTRICA DATENXIA / DATENXIA HYDROPOWER STATION / CENTRALE HYDROÉLECTRIQUE DATENXIA**  
**CON EGAWARE / WITH EGAWARE / AVEC EGAWARE**  
CHINA / CHINE



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CORTE  
CUTTING  
OUTILS COUPANTS  
SCHNEIDWERKZEUG  
ARCHETTI  
CORTE  
PE3KA



Los cortavarillas EGA Master están perfectamente diseñados y fabricados para cortar varillas cilíndricas, varillas de encofrador, mallas de alambre, cables, pernos, etc.

*EGA Master bolt cutters are perfectly designed and manufactured for cutting rod, bolts, concrete from ties, cable and wires.*

Les coupe-boulons EGA Master sont parfaitement conçus et fabriqués pour la coupe des tiges, des boulons, des câbles et des fils.

### Regulación central / *Central regulation* / Réglage central



**1**  
Sistema multiplicador de par de corte.

*Cutting leverage multiplying system.*

Accroissement de la coupe par le système multiplicateur.

**2**  
El diseño especial reforzado de cabeza permite cortar varillas, pernos, etc. a muy poca distancia de la superficie desde la que sobresalen. El juego de cuchillas está fabricada en cromo-molibdeno, dándole una mayor resistencia y durabilidad gracias a la dureza 62 HRC.

*Its strong & specially designed head permits cutting bolts and rods at a very small distance from the surface where they stick out from. Cutting-blades are made in Chrome-Molibdenum, providing a bigger resistance and durability due to their 62 HRC hardness.*

Les mâchoires sont robustes et spécialement conçues pour couper au ras du mur. Les taillants sont en Chrome Molibdène d'une dureté de 62 HRC, ce qui confère une plus grande résistance et longévité aux mâchoires.

### Regulación lateral / *Lateral regulation* / Régulation latérale



**3**  
Gran capacidad de corte.

*Great cutting capacity.*

Capacité de coupe très importante.

**4**  
Mangos ergonómicos y confortables.

*Ergonomic and comfortable handles.*

Manches ergonomiques et confortables.

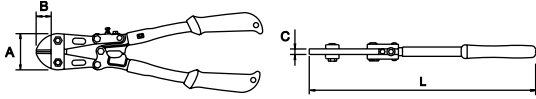
### Mangos forjados / *Forged handles* / Les bras forgés





**■ CORTAVARILLAS / BOLT CUTTERS / COUPE-BOULONS / BOLZENSCHNEIDER / TAGLIABULLONI / CORTA VARÃO / АРМАТУРНЫЕ НОЖНИЦЫ**

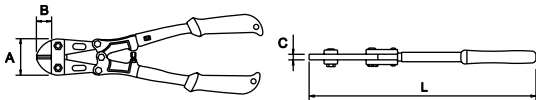
**■ A**



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | CAP<br>50 kg/mm <sup>2</sup><br>140 kg/mm <sup>2</sup> | Kg  | Icons | 64096 |
|-------|----------|--------|--------|--------|--------|--------------------------------------------------------|-----|-------|-------|
| 62193 | 14       | 350    | 60     | 26     | 7,0    | 7-5                                                    | 1,1 | 6     | 64096 |
| 62194 | 18       | 450    | 70     | 29     | 8,0    | 8-6                                                    | 1,5 | 2     | 64097 |
| 62195 | 24       | 600    | 85     | 33     | 9,5    | 10-8                                                   | 2,4 |       | 64098 |
| 62196 | 30       | 750    | 95     | 36     | 11     | 13-10                                                  | 3,7 |       | 64099 |
| 62197 | 36       | 900    | 110    | 39     | 13     | 16-12                                                  | 6,0 | 1     | 64100 |
| 62198 | 42       | 1050   | 120    | 43     | 14     | 19-14                                                  | 8,0 |       | 64101 |
| 62199 | 48       | 1200   | 155    | 60     | 17     | 22-16                                                  | 14  |       | 64700 |



**■ B**



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | CAP<br>50 kg/mm <sup>2</sup><br>140 kg/mm <sup>2</sup> | Kg  | Icons | 64056 |
|-------|----------|--------|--------|--------|--------|--------------------------------------------------------|-----|-------|-------|
| 62201 | 14       | 350    | 60     | 26     | 7,0    | 7-5                                                    | 1,1 | 6     | 64056 |
| 62202 | 18       | 450    | 70     | 29     | 8,0    | 8-6                                                    | 1,5 | 2     | 64057 |
| 62203 | 24       | 600    | 85     | 33     | 9,5    | 10-8                                                   | 2,4 |       | 64058 |
| 62204 | 30       | 750    | 95     | 36     | 11     | 13-10                                                  | 3,7 |       | 64059 |
| 62205 | 36       | 900    | 110    | 39     | 13     | 16-12                                                  | 6,0 | 1     | 64060 |
| 62206 | 42       | 1050   | 120    | 43     | 14     | 19-14                                                  | 8,0 |       | 64061 |



**■ KIT 9 PCS.**

| COD.  | PCS. | A |
|-------|------|---|
| 62191 | 9    | A |

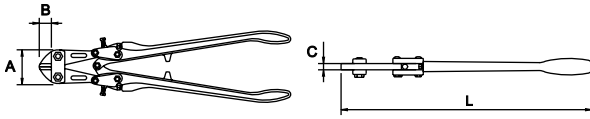
| PCS. | COD.  | PCS.       |
|------|-------|------------|
| 2    | 62193 | 14"-350 mm |
|      | 62194 | 18"-450 mm |
|      | 62195 | 24"-600 mm |
|      | 62196 | 30"-750 mm |
|      | 62197 | 36"-900 mm |

| COD.  | PCS. | B |
|-------|------|---|
| 62190 | 9    | B |

| PCS. | COD.  | PCS.       |
|------|-------|------------|
| 2    | 62201 | 14"-350 mm |
|      | 62202 | 18"-450 mm |
|      | 62203 | 24"-600 mm |
|      | 62204 | 30"-750 mm |
|      | 62205 | 36"-900 mm |



**MANGOS FORJADOS / FORGED HANDLES / MANCHES FORGÉS / STAHL GESCHMIEDET / MANICI FORGIATI / CABOS FORJADOS / КОВАННЫЕ РУКОЯТКИ**



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | CAP<br>50 kg/mm <sup>2</sup><br>140 kg/mm <sup>2</sup> | Kg  | Icon | Icon  |
|-------|----------|--------|--------|--------|--------|--------------------------------------------------------|-----|------|-------|
| 62785 | 14       | 350    | 60     | 26     | 7      | 7-5                                                    | 1,3 |      | 64453 |
| 62786 | 18       | 450    | 70     | 32     | 8      | 8-6                                                    | 1,8 |      | 64454 |
| 62787 | 24       | 600    | 85     | 34     | 9,5    | 10-8                                                   | 3,2 | 1    | 64455 |
| 62788 | 30       | 750    | 95     | 39     | 11     | 13-10                                                  | 4,5 |      | 64456 |
| 62789 | 36       | 900    | 110    | 43     | 13     | 16-12                                                  | 7,0 |      | 64457 |



**KIT 9 PCS.**

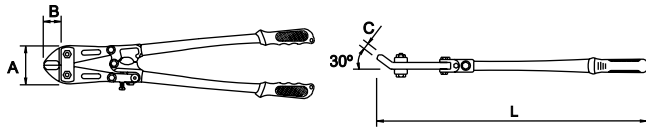
| COD.  | PCS. |
|-------|------|
| 62192 | 9    |

| PCS. | COD.  | PCS.       |
|------|-------|------------|
| 2    | 62785 | 14"-350 mm |
|      | 62786 | 18"-450 mm |
|      | 62787 | 24"-600 mm |
|      | 62788 | 30"-750 mm |
| 1    | 62789 | 36"-900 mm |



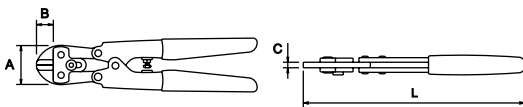
**CORTAVARILLAS FILO ANGULAR / ANGULAR EDGE BOLT CUTTERS / COUPE BOULON MACHOIRE COURBE / ECKRAND BOLZENSCHNEIDER / TAGLIABULLONI FILO ANGOLARE / CORTA VARÃO DE FIO ANGULAR / АРМАТУРНЫЕ НОЖИЦЫ С РЕГУЛИРОВКОЙ**



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | CAP<br>50 kg/mm <sup>2</sup><br>140 kg/mm <sup>2</sup> | Kg  | Icon | Icon  |
|-------|----------|--------|--------|--------|--------|--------------------------------------------------------|-----|------|-------|
| 62813 | 18       | 450    | 70     | 29     | 8      | 8-6                                                    | 1,8 |      | 64689 |
| 62814 | 24       | 600    | 85     | 33     | 9,5    | 10-8                                                   | 2,6 | 1    | 64690 |



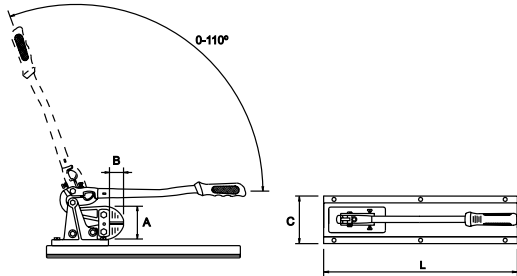
**CORTAVARILLAS / BOLT CUTTERS / COUPE-BOULONS / BOLZENSCHNEIDER / TAGLIABULLONI / CORTA VARÃO / АРМАТУРНЫЕ НОЖИЦЫ**



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | CAP<br>140 kg/mm <sup>2</sup> | Kg  | Icon | Icon |
|-------|----------|--------|--------|--------|--------|-------------------------------|-----|------|------|
| 62200 | 8        | 200    | 39     | 16     | 4,5    | 3                             | 0,3 | 6    | •    |



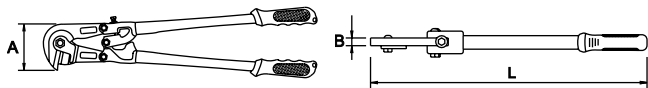
**CORTAVARILLAS DE MESA / BENCH TYPE BOLT CUTTER / COUPE-BOULONS SUR PLATEAU / TISCHBOLZENSCHNEIDER / TAGLIABULLONI DA BANCO / CORTA VARÃO DE BANCADA / ВЕРСТАЧНЫЕ АРМАТУРНЫЕ НОЖНИЦЫ**



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | CAP<br>50 kg/mm <sup>2</sup><br>140 kg/mm <sup>2</sup> | Kg  |   |       |
|-------|----------|--------|--------|--------|--------|--------------------------------------------------------|-----|---|-------|
| 62513 | 24       | 600    | 85     | 34     | 135    | 10-8                                                   | 5,5 | 1 | 64334 |



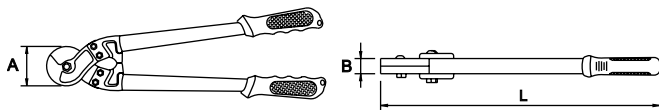
**CORTAVARILLAS BOCA PELICANO / PELICAN BOLT CUTTER / COUPE-BOULONS "BEC PELICAN" / BOLZENSCHNEIDER MAULSCHLÜSSEL / TAGLIABULLONI / TESOURA CORTA VARÃO BOCA PELICANO / АРМАТУРНЫЕ НОЖНИЦЫ «ПЕЛИКАН»**



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | CAP<br>50 kg/mm <sup>2</sup><br>140 kg/mm <sup>2</sup> | Kg  |   |       |
|-------|----------|--------|--------|--------|--------------------------------------------------------|-----|---|-------|
| 62514 | 24       | 600    | 100    | 9,5    | 9-7                                                    | 2,7 | 1 | 64335 |



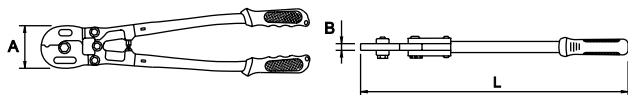
**CORTACABLES PARA CU-AL / CU-AL CABLE CUTTERS / COUPE CÂBLES POUR CU/AL / STAHLDRAHT SCHNEIDER FÜR CU/AL / TAGLIACAVI PER CU/AL / CORTACABOS PARA CU/AL / КАБЕЛЬНЫЕ НОЖНИЦЫ**



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | CAP<br>50 kg/mm <sup>2</sup><br>140 kg/mm <sup>2</sup> | Kg  |   |       |
|-------|----------|--------|--------|--------|--------------------------------------------------------|-----|---|-------|
| 62515 | 18       | 450    | 65     | 8,0    | 12                                                     | 1,7 | 1 | 64331 |
| 62516 | 32       | 800    | 90     | 9,0    | 16                                                     | 3,6 | 1 | 64332 |

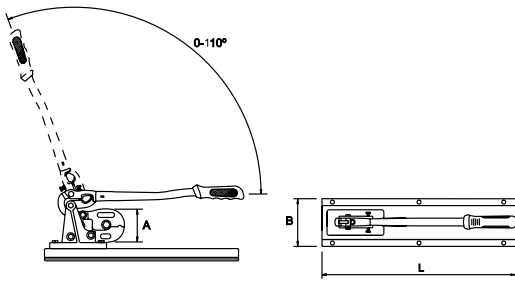


**CORTACABLES DE ACERO REFORZADO / H.D. WIRE ROPE CUTTER / COUPE CABLES EN ACIER RENFORCÉ / VERSTÄRKTER STAHLDRAHT BOLZENSCHNEIDER / CESCOIA PER CAVI / TESOURA CORTA CABOS DE AÇO REFORÇADO / УСИЛЕННЫЕ КАБЕЛЕРЕЗЫ**



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | CAP<br>50 kg/mm <sup>2</sup><br>140 kg/mm <sup>2</sup> | Kg  |   |       |
|-------|----------|--------|--------|--------|--------------------------------------------------------|-----|---|-------|
| 62517 | 24       | 600    | 90     | 9,5    | 14-10                                                  | 2,4 | 1 | 64328 |
| 62518 | 36       | 900    | 105    | 13     | 18-12                                                  | 4,7 | 1 | 64329 |
| 62519 | 42       | 1050   | 120    | 15     | 22-13                                                  | 8,0 | 1 | 64330 |

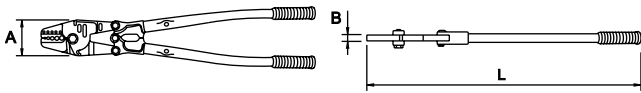




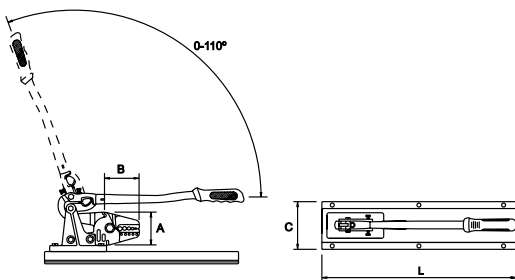
| COD.         | L (inch) | L (mm) | A (mm) | B (mm) | CAP<br>50 kg/mm <sup>2</sup><br>140 kg/mm <sup>2</sup> | Kg  |   |       |
|--------------|----------|--------|--------|--------|--------------------------------------------------------|-----|---|-------|
| <b>62520</b> | 24       | 600    | 90     | 135    | 10-8                                                   | 5,5 | 1 | 64328 |



**TENAZA DE ENGASTAR / SWAGING TOOL / PINCE À SERTIR / KABELKLEMMZANGE / PINZA PER CAPICORDA / TURQUES DE ENGASTAR / ОПРЕССОВОЧНЫЙ ИНСТРУМЕНТ**



| COD.         | L (inch) | L (mm) | A (mm) | B (mm) | CAP<br>mm | Kg  |   |       |
|--------------|----------|--------|--------|--------|-----------|-----|---|-------|
| <b>62521</b> | 24       | 600    | 85     | 12     | 1,5-5     | 2,5 | 1 | 64333 |



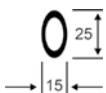
| COD.         | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | CAP<br>mm | Kg  |   |       |
|--------------|----------|--------|--------|--------|--------|-----------|-----|---|-------|
| <b>62522</b> | 24       | 600    | 85     | 80     | 135    | 1,5-5     | 6,0 | 1 | 64333 |



**ARCO DE SIERRA / HACK SAW / MONTURE DE SCIE À METAUX / METALLSÄGEBOGEN / ARCHETTI / ARCOS DE SERRA / HOЖOBKA**

**KRONOS**

**0° & 45° & 90°**



| COD.         | <br>inch | <br>mm | <br>g |   |
|--------------|----------|--------|-------|---|
| <b>63742</b> | 12       | 300    | 900   | 3 |

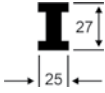






**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Aluminio / Aluminum / Aluminium

### ■ APOLO II

■ 0° & 45° & 90°



| COD.         |  inch |  mm |  g |  |
|--------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>63781</b> | 12                                                                                     | 300                                                                                  | 750                                                                                 | 3                                                                                  |

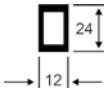
#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES





Aluminio / Aluminum / Aluminium



### ■ HÉRCULES

■ 0° & 45° & 90°



| COD.         |  inch |  mm |  g |  |
|--------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>63748</b> | 12                                                                                     | 300                                                                                  | 600                                                                                 | 3                                                                                  |

#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES





Aluminio / Aluminum / Aluminium



### ■ TITÁN

■ 0° & 90°



| COD.         |  inch |  mm |  g |  |
|--------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>63745</b> | 12                                                                                       | 300                                                                                    | 450                                                                                   | 6                                                                                    |

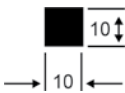
#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Acero / Steel / Acier



### ■ MINIPROF




■ 90°



| COD.         |  inch |  mm |  g |  |
|--------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>63299</b> | 6                                                                                        | 150                                                                                    | 165                                                                                   | 6                                                                                    |



### ■ HOJAS DE SIERRA / HACK SAW BLADES / LAMES DE SCIÉS / METALLSÄGEBLÄTTER / LAME PER SEGHETTI / FOLHA DE SERRA / ПОЛОТНА ДЛЯ НОЖОВКИ

| COD.         | L (inch) |  TPI |  Kg |  |
|--------------|----------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>64433</b> | 12       | 14                                                                                      | 1,9                                                                                    | 100                                                                                  |
| <b>64434</b> |          | 18                                                                                      |                                                                                        |                                                                                      |
| <b>64435</b> |          | 24                                                                                      |                                                                                        |                                                                                      |
| <b>64436</b> |          | 32                                                                                      |                                                                                        |                                                                                      |



#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Acero al carbono / Carbon steel / Acier en carbone

| COD.  | L (inch) | TPI | Kg  |     |
|-------|----------|-----|-----|-----|
| 64437 | 12       | 14  | 1,9 | 100 |
| 64438 |          | 18  |     |     |
| 64439 |          | 24  |     |     |
| 64440 |          | 32  |     |     |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

HSS-Bimetal

Irrompible / *Unbreakable* / Indéchirable

| COD.  | L (inch) | TPI | Kg  |     |
|-------|----------|-----|-----|-----|
| 64441 | 12       | 14  | 1,9 | 100 |
| 64442 |          | 18  |     |     |
| 64443 |          | 24  |     |     |
| 64444 |          | 32  |     |     |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

HSS-Bimetal (cobalt)

Irrompible / *Unbreakable* / Indéchirable
**ACERO ESPECIAL TEMPLADO / HARDENED SPECIAL STEEL / ACIER TREMPÉ SPÉCIAL / GEHÄRTET SPEZIAL STAHL / ACCIAIO SPECIALE TEMPRATO / AÇO ESPECIAL TEMPERADO / СПЕЦИАЛЬНО ЗАКАЛЕННАЯ СТАЛЬ**

| COD.  | L (inch) | TPI | g  |   |
|-------|----------|-----|----|---|
| 63771 | 6        | 24  | 30 | 6 |


**TIJERAS ARTICULADAS Y CORTACHAPA / TIN SNIPS / CISEAUX ARTICULÉES ET POUR TOLE / BLECHSCHERE / CESCOIE ARTICOLATI PER LAMIERE / TESOURAS ARTICULADAS E CORTA-CHAPAS / НОЖНИЦЫ ДЛЯ РЕЗКИ ЛИСТОВОГО МЕТАЛЛА**
**TIJERAS ARTICULADAS / AVIATION TIN SNIPS / CISAILE ARTICULÉE / BLECHSCHERE / CESCOIE A DOPPIA LEVA / TESOURAS ARTICULADAS / НОЖНИЦЫ ДЛЯ ЛИСТОВОГО МЕТАЛЛА**

| COD.  | L (mm) | L (inch) | CAP mm | g   |   |   |
|-------|--------|----------|--------|-----|---|---|
| 62169 | 250    | 10       | 1,2    | 380 | 6 | ● |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

Derecha / *Right* / Droite

| COD.  | L (mm) | L (inch) | CAP mm | g   |   |   |
|-------|--------|----------|--------|-----|---|---|
| 62170 | 250    | 10       | 1,2    | 380 | 6 | ● |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

Recto / *Straight* / Droit

| COD.  | L (mm) | L (inch) | CAP mm | g   |   |   |
|-------|--------|----------|--------|-----|---|---|
| 62171 | 250    | 10       | 1,2    | 380 | 6 | ● |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

Izquierda / *Left* / Gauche
**TIJERAS ARTICULADAS REFORZADAS / REINFORCED AVIATION TIN SNIPS / CISAILE ARTICULÉE RENFORCÉE / VERSTÄRKTE BLECHSCHERE / CESCOIE A DOPPIA LEVA RINFORZATA / TESOURAS ARTICULADAS REFORÇADAS / УСИЛЕННЫЕ НОЖНИЦЫ ДЛЯ ЛИСТОВОГО МЕТАЛЛА**

| COD.  | L (mm) | L (inch) | CAP mm | g   |   |   |
|-------|--------|----------|--------|-----|---|---|
| 62188 | 250    | 10       | 1,2    | 470 | 6 | ● |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

Derecha / *Right* / Droite

| COD.         | L (mm) | L (inch) | CAP<br>mm | g   |   |   |
|--------------|--------|----------|-----------|-----|---|---|
| <b>62189</b> | 250    | 10       | 1,2       | 470 | 6 | ● |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V  
Izquierda / Left / Gauche

**TIJERAS PARA CHAPA / TIN SNIPS / CISAILLES À TOLE / BLECHSCHEREN / CESCOIE PER LAMIERA / TESOURA PARA CHAPA / НОЖИЦЫ ДЛЯ ЛИСТОВОГО МЕТАЛЛА**

| COD.         | L (inch) | CAP<br>mm | g   |   |   |
|--------------|----------|-----------|-----|---|---|
| <b>62232</b> | 8        | 0,5       | 350 | 6 | ● |
| <b>62159</b> | 10       | 1         | 550 | 6 | ● |
| <b>62233</b> | 12       | 1,2       | 700 | 4 | - |
| <b>62234</b> | 14       | 1,2       | 900 | 4 | - |



**CORTADORES / CUTTERS / CUTTERS / MESSER / CUTTERS / CORTADORES / РЕЗАКИ**

| COD.         | mm  | g   |    |   |       |
|--------------|-----|-----|----|---|-------|
| <b>69501</b> | 0,6 | 110 | 12 | ● | 64005 |



| COD.         | mm  | g  |    |   |       |
|--------------|-----|----|----|---|-------|
| <b>69502</b> | 0,6 | 35 | 12 | ● | 64005 |



| COD.         | mm  | g   |    |   |       |
|--------------|-----|-----|----|---|-------|
| <b>63874</b> | 0,5 | 135 | 10 | ● | 63868 |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Carga automática con 7 cuchillas / Automatic load with 7 blades / Charge automatique avec 7 lames

**CORTADORES DE SEGURIDAD CON CUCHILLA AUTO-RETRACTIL / SAFETY CUTTER WITH AUTO-RETRACTABLE BLADE / CUTTER DE SÉCURITÉ AVEC LAME AUTO-RÉTRACTABLE / SICHERHEITSMESSER MIT AUTOMATISCH EINZIEHBARER KLINGE / CUTTERS DI SICUREZZA CON LAMA AUTOMATICA - RETRAIBILE / CORTADORES DE SEGURANÇA COM LÂMINA AUTO-RETRACTIL / БЕЗОПАСНЫЙ НОЖ С АВТОМАТИЧЕСКИ УБИРАЕМЫМ ЛЕЗВИЕМ**

| COD.         | mm  | g   |    |   |       |
|--------------|-----|-----|----|---|-------|
| <b>63876</b> | 0,6 | 140 | 12 | ● | 64005 |



| COD.         | mm  | g   |    |   |       |
|--------------|-----|-----|----|---|-------|
| <b>63877</b> | 0,6 | 130 | 12 | ● | 64005 |



| COD.         | mm  | g  |    |   |       |
|--------------|-----|----|----|---|-------|
| <b>63878</b> | 0,6 | 40 | 12 | ● | 64005 |



**CUCHILLA TRAPEZOIDAL / TRAPEZOIDAL BLADE / LAME TRAPEZOÏDALE / TRAPEZKLINGE / LAMA TRAPEZOIDALE / LÂMINA TRAPEZOIDAL / ТРАПЕЦЕВИДНОЕ ЛЕЗВИЕ**

| COD.         | L x W x H (mm) | g |
|--------------|----------------|---|
| <b>64005</b> | 60 x 19 x 0,6  | 5 |





**CUCHILLA TIPO GANCHO / HOOK TYPE BLADE / LAME CROCHET / HAKENKLINGE / LAMA TIPO GANCIO / LÂMINA TIPO GANCHO / ЛЕЗВИЕ КРЮЧКОВОГО ТИПА**

| COD.         | L x W x H (mm) | g |
|--------------|----------------|---|
| <b>63869</b> | 50 x 19 x 0,65 | 5 |



**CUCHILLA / BLADE / LAME / KLINGE / LAMA / LÂMINA / ЛЕЗВИЕ**

| COD.         | L x W x H (mm) |  |  |
|--------------|----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>63868</b> | 108 x 18 x 0,5 | 40                                                                                | 5                                                                                 |



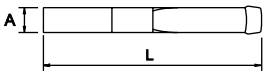
**EXPOSITOR / DISPLAY / PRESENTOIR / STÄNDER / ESPOSITORE / DISPLAY STAND / СТЕНДЫ**

42 PCS.

| COD.         | PCS.      |
|--------------|-----------|
| <b>55569</b> | 42        |
|              | PCS.      |
|              | 10        |
|              | 16        |
|              | COD. PCS. |
|              | 63876     |
|              | 63877     |
|              | 63878     |



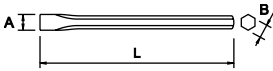
**CINCEL CHAPISTA / EXTRA FLAT COLD CHISEL / BURIN DE CARROSSIER / SCHLITZMEISSEL / SCALPELLO A FREDDO PIATTO / ESCOPRO FINO / СВЕРХ ПЛОСКОЕ ЗУБИЛО**





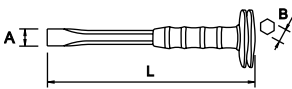
| COD.         | L (mm) | A (mm) |  |  |  |
|--------------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>63472</b> | 204    | 27     | 240                                                                                 | 6                                                                                   | •                                                                                     |





**CINCEL / FLAT CHISEL / CISEAUX DE MAÇON / FLACHMEISSEL / SCALPELLI PER MURATORI / ESCOPRO / ПЛОСКОЕ ЗУБИЛО**



| COD.         | L (mm) | A (mm) | B (mm) |  |  |
|--------------|--------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>63309</b> | 200    | 23     | 16     | 300                                                                                 |                                                                                       |
| <b>63311</b> | 300    | 24     | 18     | 480                                                                                 |                                                                                       |
| <b>63315</b> | 350    | 25     | 18     | 600                                                                                 | 6                                                                                     |
| <b>63316</b> | 350    | 26     | 18     | 700                                                                                 |                                                                                       |
| <b>63320</b> | 400    | 27     | 20     | 950                                                                                 |                                                                                       |
| <b>63321</b> | 500    | 28     | 20     | 1200                                                                                |                                                                                       |

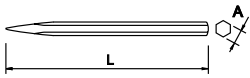


| COD.         | L (mm) | A (mm) | B (mm) |  |  |
|--------------|--------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>63326</b> | 200    | 23     | 16     | 450                                                                                 |                                                                                       |
| <b>63328</b> | 300    | 24     | 18     | 650                                                                                 |                                                                                       |
| <b>63332</b> | 350    | 25     | 18     | 750                                                                                 | 6                                                                                     |
| <b>63333</b> | 350    | 26     | 18     | 850                                                                                 |                                                                                       |
| <b>63337</b> | 400    | 27     | 20     | 1100                                                                                |                                                                                       |
| <b>63338</b> | 500    | 28     | 20     | 1350                                                                                |                                                                                       |

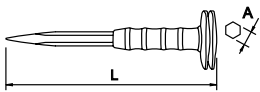




■ **PUNTERO / POINTED CHISEL / BROCHE / SPITZMEISSEL / SCALPELLI PER MURATORI / PONTEIRO / КОЛУЩОЕ ЗУБИЛО**



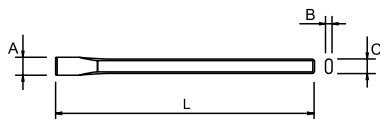
| COD.  | L (mm) | A (mm) |      |   |
|-------|--------|--------|------|---|
| 63339 | 200    |        | 300  |   |
| 63341 | 300    | 16     | 480  |   |
| 63343 | 350    |        | 700  | 6 |
| 63344 | 400    | 18     | 800  |   |
| 63346 | 500    | 20     | 1200 |   |



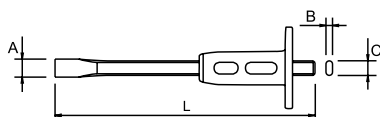
| COD.  | L (mm) | A (mm) |      |   |
|-------|--------|--------|------|---|
| 63347 | 200    |        | 450  |   |
| 63348 | 250    | 16     | 550  |   |
| 63349 | 300    |        | 650  |   |
| 63351 | 350    | 18     | 850  | 6 |
| 63352 | 400    |        | 950  |   |
| 63353 | 400    | 20     | 1100 |   |
| 63354 | 500    |        | 1350 |   |



■ **CINCEL MECÁNICO / FLAT COLD CHISEL / BURIN MÉCANICIEN / FLACHMEIBEL / SCALPELLO PER MECCANICO / ESCOPRO MECÂNICO / ПЛОСКОЕ ЗУБИЛО**

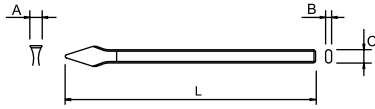




| COD.  | L (mm) | A (mm) | B (mm) | C (mm) |     |    |
|-------|--------|--------|--------|--------|-----|----|
| 62847 | 100    | 12     | 7,0    | 11     | 65  |    |
| 62848 | 125    | 15     | 9,0    | 14     | 115 | 12 |
| 62849 | 150    | 18     | 11     | 17     | 220 |    |
| 62850 | 200    | 21     |        |        | 280 |    |
| 62851 | 200    | 24     | 12     | 20     | 290 |    |
| 62853 | 250    | 25     |        |        | 320 |    |
| 62854 | 250    | 28     |        |        | 460 |    |
| 62855 | 300    | 26     |        | 23     | 480 | 6  |
| 62856 | 300    | 29     | 13     |        | 500 |    |
| 62857 | 400    | 30     |        | 26     | 550 |    |
| 62858 | 500    |        |        |        |     |    |

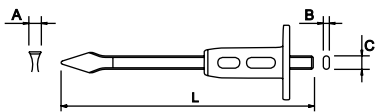




| COD.  | L (mm) | A (mm) | B (mm) | C (mm) |     |   |
|-------|--------|--------|--------|--------|-----|---|
| 62862 | 200    | 21     |        |        | 330 |   |
| 62863 | 200    | 24     | 12     | 20     | 340 |   |
| 62864 | 225    | 24     |        |        | 350 |   |
| 62865 | 250    | 25     |        |        | 370 |   |
| 62866 | 250    | 28     |        |        | 500 | 6 |
| 62867 | 300    | 26     |        | 23     | 550 |   |
| 62868 | 300    | 29     | 13     |        | 550 |   |
| 62870 | 500    | 30     |        | 26     | 600 |   |

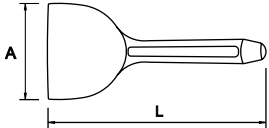




**BURIL PLANO / CROSSCUT CHISEL / BÉDANE PLATE / KREUZSCHNITT MEIBEL / BULINO PIATTO / BURIL PLANO / ЗУБИЛО ДЛЯ ВЫРУБКИ**


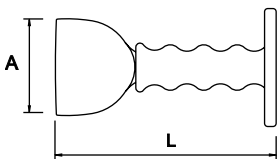
| COD.  | L (mm) | A (mm) | B (mm) | C (mm) |  |  |
|-------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 62871 | 125    | 5,0    | 9,0    | 14     | 90                                                                                |                                                                                     |
| 62872 | 150    | 6,0    | 10     | 16     | 150                                                                               |                                                                                     |
| 62873 | 175    | 7,0    | 11     | 17     | 240                                                                               |                                                                                     |
| 62874 | 200    | 8,0    | 12     | 20     | 280                                                                               |                                                                                     |
| 62875 | 250    | 9,0    | 13     | 23     | 300                                                                               |                                                                                     |
| 62876 | 300    | 9,0    | 13     | 23     | 310                                                                               |                                                                                     |





| COD.  | L (mm) | A (mm) | B (mm) | C (mm) |  |  |
|-------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 62880 | 200    | 8,0    | 12     | 20     | 330                                                                               |                                                                                     |
| 62881 | 250    | 9,0    | 13     | 23     | 350                                                                               |                                                                                     |
| 62882 | 300    | 9,0    | 13     | 23     | 360                                                                               |                                                                                     |


**CINCEL PARA LADRILLOS / BOLSTER CHISEL / CISEAUX À BRIQUES / FUGENMEISSEL / SCALPELLI DA PIASTRELLISTA / ESCOPRO PARA LADRILHOS / ЛОПАТОЧНОЕ ЗУБИЛО**


| COD.  | L (mm) | A (mm) |  |  |
|-------|--------|--------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 63181 | 220    | 60     | 450                                                                                 |                                                                                      |
| 63182 | 240    | 75     | 700                                                                                 |                                                                                      |
| 63191 | 240    | 100    | 750                                                                                 |                                                                                      |




| COD.  | L (mm) | A (mm) |  |  |
|-------|--------|--------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 63183 | 220    | 60     | 410                                                                                 |                                                                                      |
| 63184 | 240    | 75     | 750                                                                                 |                                                                                      |
| 63192 | 240    | 100    | 800                                                                                 |                                                                                      |




■ SETS

■ CINCELES, BOTADORES Y GRANETES / CHISELS AND PUNCHES / BURINS, CHASSE-GOUPILLES ET CHASSE-CLOUS / MEIBEL UND DURCHSCHLÄGE / SCALPELLI E PUNZONI / ESCOPROS, SACA-TROÇOS E PUNÇÕES / ЗУБИЛА И ПРОБойНИКИ

■ 6 PCS.

| COD.         | PCS.  |  |                                         |                  |
|--------------|-------|-----------------------------------------------------------------------------------|-----------------------------------------|------------------|
| <b>69953</b> | 6     | 700                                                                               |                                         |                  |
| PCS.         | COD.  | PCS.                                                                              | Descripción / Description / Description |                  |
|              | 62847 |                                                                                   | Cinzel mecánico / Flat cold chisel      | 12 x 11 x 100 mm |
|              | 62848 |                                                                                   |                                         | 15 x 14 x 125 mm |
| 1            | 63398 |                                                                                   | Botador cilíndrico / Pin punch          | 6 x 10 x 150 mm  |
|              | 63396 |                                                                                   |                                         | 4 x 8 x 150 mm   |
|              | 63416 |                                                                                   | Botador cónico / Taper punch            | 3 x 10 x 125 mm  |
|              | 63436 |                                                                                   | Granete / Center punch                  | 3 x 8 x 100 mm   |




| COD.         | PCS.  |  |                                         |                  |
|--------------|-------|-----------------------------------------------------------------------------------|-----------------------------------------|------------------|
| <b>69954</b> | 6     | 700                                                                               |                                         |                  |
| PCS.         | COD.  | PCS.                                                                              | Descripción / Description / Description |                  |
|              | 62847 |                                                                                   | Cinzel mecánico / Flat cold chisel      | 12 x 11 x 100 mm |
|              | 62848 |                                                                                   |                                         | 15 x 14 x 125 mm |
| 1            | 62871 |                                                                                   | Buril plano / Crosscut chisel           | 5 x 14 x 125 mm  |
|              | 63396 |                                                                                   | Botador cilíndrico / Pin punch          | 4 x 8 x 150 mm   |
|              | 63416 |                                                                                   | Botador cónico / Taper punch            | 3 x 10 x 125 mm  |
|              | 63436 |                                                                                   | Granete / Center punch                  | 3 x 8 x 100 mm   |



■ CINCELES / CHISELS / BURINS / MEISELN / SCALPELLI / ESCOPROS / ЗУБИЛА

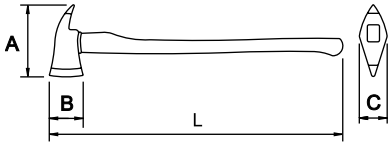
■ 50 PCS.

| COD.         | PCS.  |  |                                         |                  |
|--------------|-------|-------------------------------------------------------------------------------------|-----------------------------------------|------------------|
| <b>55566</b> | 50    | 20                                                                                  |                                         |                  |
| PCS.         | COD.  | PCS.                                                                                | Descripción / Description / Description |                  |
|              | 62849 |                                                                                     | Cinzel mecánico / Flat cold chisel      | 18 x 17 x 150 mm |
|              | 62850 |                                                                                     |                                         | 21 x 20 x 200 mm |
|              | 62854 |                                                                                     |                                         | 28 x 23 x 250 mm |
|              | 62857 |                                                                                     |                                         | 30 x 26 x 400 mm |
| 5            | 62873 |                                                                                     | Buril plano / Crosscut chisel           | 7 x 17 x 175 mm  |
|              | 62874 |                                                                                     |                                         | 8 x 20 x 200 mm  |
|              | 62875 |                                                                                     |                                         | 9 x 23 x 250 mm  |
|              | 63339 |                                                                                     | Puntero / Point chisel                  | 16 x 200 mm      |
|              | 63341 |                                                                                     |                                         | 16 x 300 mm      |
|              | 63344 |                                                                                     |                                         | 18 x 400 mm      |



■ **HACHAS / AXES / HACHES / ÄXTE / ASCIA / MACHADOS / ТОПОРЫ**

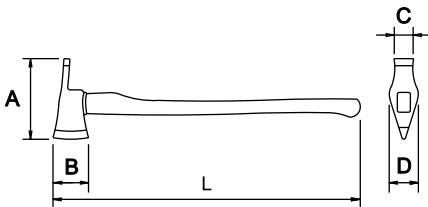
■ **HACHA BOMBERO / FIREMAN TYPE AXE / HACHE POUR POMPIERS / FEUERWEHRAXT / ASCIA TIPO PER POMPIERI / MACHADO DE BOMBEIRO / ТОПОР ПОЖАРНОГО ТИПА**



| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | Kg  | Icon |
|-------|--------|--------|--------|--------|-----|------|
| 67240 | 910    | 250    | 105    | 32     | 2,3 | 6    |



■ **HACHA AZADA / HOE AXE / HACHE HOUE / WIEDEHOPFHACHE / ASCIA A ZAPPA / MACHADO ENXADA / ТОПОР МОТЫГА**



| COD.  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | Kg  | Icon |
|-------|--------|--------|--------|--------|--------|-----|------|
| 67243 | 910    | 310    | 110    | 80     | 29     | 2,8 | 6    |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre de verre

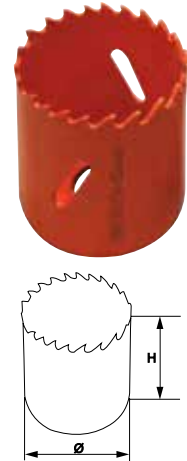


**SIERRAS DE CORONA BIMETAL / BI-METAL HOLE SAWS / SCIES CLOCHES BI-MÉTAL / BIMETALL LOCHSÄGE / SEGHE A TAZZA BI-METAL / SERRAS CRANEANAS BI-METÁLICAS / БИМЕТАЛЛИЧЕСКИЕ КОРОНКИ**

**HSS BI-METAL**

**4/6 TPI**

| COD.  | O.D. |         | H<br>(mm) | R.P.M. Acero dulce /<br>R.P.M. Mild steel /<br>R.P.M. Acier doux |     | R.P.M.<br>Inox | R.P.M. Fundición /<br>R.P.M. Casting /<br>R.P.M. Fonte |     | R.P.M. Aluminio /<br>R.P.M. Aluminium /<br>R.P.M. Aluminium |  | R.P.M. Latón /<br>R.P.M. Brass /<br>R.P.M. Laiton |      | R.P.M. Madera /<br>R.P.M. Wood /<br>R.P.M. Bois |  |
|-------|------|---------|-----------|------------------------------------------------------------------|-----|----------------|--------------------------------------------------------|-----|-------------------------------------------------------------|--|---------------------------------------------------|------|-------------------------------------------------|--|
|       | mm   | inch    |           |                                                                  |     |                |                                                        |     |                                                             |  |                                                   |      |                                                 |  |
| 64550 | 14   | 9/16    | 54        | 620                                                              | 300 |                | 400                                                    | 900 | 790                                                         |  |                                                   |      |                                                 |  |
| 64551 | 16   | 5/8     |           | 545                                                              | 260 |                | 360                                                    | 810 | 735                                                         |  |                                                   |      |                                                 |  |
| 64552 | 17   | 11/16   |           | 510                                                              | 250 |                | 340                                                    | 770 | 690                                                         |  |                                                   |      |                                                 |  |
| 64553 | 19   | 3/4     |           | 460                                                              | 220 |                | 300                                                    | 685 | 620                                                         |  |                                                   |      | 3000                                            |  |
| 64664 | 20   | -       |           | 430                                                              | 210 |                | 290                                                    | 650 | 590                                                         |  |                                                   |      |                                                 |  |
| 64554 | 21   | 13/16   |           | 415                                                              | 200 |                | 275                                                    | 620 | 560                                                         |  |                                                   |      |                                                 |  |
| 64555 | 22   | 7/8     | 395       | 190                                                              |     | 260            | 590                                                    | 535 |                                                             |  |                                                   |      |                                                 |  |
| 64556 | 24   | 15/16   | 360       |                                                                  | 175 | 240            | 540                                                    | 490 |                                                             |  |                                                   |      |                                                 |  |
| 64557 | 25   | 1       | 350       |                                                                  |     | 235            | 525                                                    | 470 |                                                             |  |                                                   |      |                                                 |  |
| 64558 | 27   | 1.1/16  | 320       | 160                                                              |     | 215            | 480                                                    | 435 |                                                             |  |                                                   |      |                                                 |  |
| 64559 | 28   | -       | 310       | 150                                                              |     | 205            | 450                                                    | 405 |                                                             |  |                                                   | 2750 |                                                 |  |
| 64560 | 29   | 1.1/8   | 300       | 145                                                              |     | 200            | 430                                                    | 390 |                                                             |  |                                                   |      |                                                 |  |
| 64561 | 30   | 1.13/16 | 290       | 140                                                              |     | 190            | 410                                                    | 370 |                                                             |  |                                                   |      |                                                 |  |
| 64562 | 32   | 1.1/4   | 270       | 130                                                              |     | 180            | 390                                                    | 355 |                                                             |  |                                                   |      |                                                 |  |
| 64563 | 33   | 1.5/16  | 265       | 125                                                              |     | 175            | 370                                                    | 335 |                                                             |  |                                                   |      |                                                 |  |
| 64564 | 35   | 1.3/8   | 250       | 120                                                              |     | 165            | 350                                                    | 320 |                                                             |  |                                                   | 2400 |                                                 |  |
| 64565 | 37   | 1.7/16  | 235       | 115                                                              |     | 155            | 340                                                    | 310 |                                                             |  |                                                   |      |                                                 |  |
| 64566 | 38   | 1.1/2   | 230       | 110                                                              |     | 150            | 325                                                    | 295 |                                                             |  |                                                   |      |                                                 |  |
| 64567 | 40   | 1.9/16  | 215       | 105                                                              |     | 145            | 315                                                    | 285 |                                                             |  |                                                   |      |                                                 |  |
| 64568 | 41   | 1.5/8   | 210       | 100                                                              |     | 140            | 300                                                    | 275 |                                                             |  |                                                   |      |                                                 |  |
| 64569 | 43   | 1.11/16 | 200       |                                                                  | 95  | 135            | 295                                                    | 270 |                                                             |  |                                                   | 2100 |                                                 |  |
| 64570 | 44   | 1.3/4   | 195       |                                                                  |     | 130            | 280                                                    | 255 |                                                             |  |                                                   |      |                                                 |  |
| 64571 | 46   | 1.13/16 | 190       |                                                                  | 90  | 125            | 270                                                    | 245 |                                                             |  |                                                   |      |                                                 |  |
| 64572 | 48   | 1.7/8   | 180       |                                                                  |     | 120            | 255                                                    | 230 |                                                             |  |                                                   |      |                                                 |  |
| 64573 | 51   | 2       | 170       | 85                                                               |     | 115            | 245                                                    | 220 |                                                             |  |                                                   |      |                                                 |  |
| 64574 | 52   | 2.1/16  | 165       | 80                                                               |     | 110            | 240                                                    | 215 |                                                             |  |                                                   |      |                                                 |  |
| 64575 | 54   | 2.1/8   | 160       |                                                                  | 75  | 105            | 230                                                    | 205 |                                                             |  |                                                   |      |                                                 |  |
| 64576 | 57   | 2.1/4   | 150       |                                                                  |     | 100            | 220                                                    | 200 |                                                             |  |                                                   | 2000 |                                                 |  |
| 64577 | 59   | 2.5/16  | 145       |                                                                  | 70  | 95             | 215                                                    | 195 |                                                             |  |                                                   |      |                                                 |  |
| 64578 | 60   | 2.3/8   | 140       |                                                                  |     | 90             | 205                                                    | 185 |                                                             |  |                                                   |      |                                                 |  |
| 64579 | 64   | 2.1/2   | 135       | 65                                                               |     | 90             | 200                                                    | 180 |                                                             |  |                                                   |      |                                                 |  |
| 64580 | 65   | 2.9/16  |           |                                                                  |     | 95             | 195                                                    | 175 |                                                             |  |                                                   |      |                                                 |  |
| 64581 | 67   | 2.5/8   | 130       |                                                                  | 60  | 85             | 190                                                    | 170 |                                                             |  |                                                   | 1800 |                                                 |  |
| 64582 | 70   | 2.3/4   | 125       |                                                                  |     | 80             | 185                                                    | 165 |                                                             |  |                                                   |      |                                                 |  |
| 64583 | 73   | 2.7/8   | 120       |                                                                  |     | 75             | 180                                                    | 160 |                                                             |  |                                                   |      |                                                 |  |
| 64584 | 76   | 3       | 115       | 55                                                               |     | 70             | 170                                                    | 150 |                                                             |  |                                                   |      |                                                 |  |
| 64585 | 79   | 3.1/8   | 110       |                                                                  |     | 65             | 165                                                    | 145 |                                                             |  |                                                   | 1500 |                                                 |  |
| 64586 | 83   | 3.1/4   | 105       |                                                                  | 50  | 60             | 155                                                    | 140 |                                                             |  |                                                   |      |                                                 |  |
| 64587 | 86   | 3.3/8   | 100       |                                                                  |     | 55             | 150                                                    | 135 |                                                             |  |                                                   |      |                                                 |  |
| 64588 | 89   | 3.1/2   | 95        |                                                                  |     | 50             | 145                                                    | 130 |                                                             |  |                                                   |      |                                                 |  |
| 64589 | 92   | 3.5/8   | 90        | 45                                                               |     | 45             | 140                                                    | 125 |                                                             |  |                                                   | 1200 |                                                 |  |
| 64590 | 95   | 3.3/4   | 88        |                                                                  |     | 40             | 135                                                    | 120 |                                                             |  |                                                   |      |                                                 |  |
| 64591 | 98   | 3.7/8   | 85        |                                                                  |     | 35             | 130                                                    |     |                                                             |  |                                                   |      |                                                 |  |
| 64592 | 102  | 4       | 80        |                                                                  |     | 30             | 125                                                    |     |                                                             |  |                                                   |      |                                                 |  |
| 64593 | 105  | 4.1/8   | 83        |                                                                  |     | 25             | 120                                                    | 110 |                                                             |  |                                                   |      |                                                 |  |
| 64594 | 108  | 4.1/4   | 80        |                                                                  |     | 20             | 115                                                    |     |                                                             |  |                                                   | 1000 |                                                 |  |
| 64595 | 110  | 4.5/16  | 78        |                                                                  |     | 15             | 110                                                    |     |                                                             |  |                                                   |      |                                                 |  |
| 64596 | 114  | 4.1/2   | 76        |                                                                  |     | 10             | 105                                                    |     |                                                             |  |                                                   |      |                                                 |  |
| 64597 | 121  | 4.3/4   | 72        | 35                                                               |     | 5              | 100                                                    | 100 |                                                             |  |                                                   | 800  |                                                 |  |
| 64598 | 127  | 5       | 68        |                                                                  |     | 0              | 95                                                     | 90  |                                                             |  |                                                   |      |                                                 |  |
| 64599 | 140  | 5.1/2   | 62        | 30                                                               |     | 0              | 90                                                     | 85  |                                                             |  |                                                   | 700  |                                                 |  |
| 64600 | 152  | 6       | 55        | 25                                                               |     | 0              | 85                                                     | 75  |                                                             |  |                                                   |      |                                                 |  |



**HUSILLO / ARBOR / VÉRIN / HALTER / SUPPORTO / FUSO / ОПРАВКА**

| COD.         |  O.D. mm |  O.D. inch |  AF mm |  AF inch |  |
|--------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>64601</b> | 14-30                                                                                     | 9/16-1.13/16                                                                                | 9,52                                                                                    | 3/8                                                                                       | 1                                                                                   |
| <b>64602</b> | 32-152                                                                                    | 1.1/4-6                                                                                     | 11,1                                                                                    | 7/16                                                                                      |                                                                                     |








**CONECTOR ADAPTADOR ROSCA / THREAD CONNECTION ADAPTER / CONNECTEUR ADAPTATEUR DE FILETAGE / ADAPTER FÜR GEWINDE / ADDATTATORE CONNETTORE PER FILIERA / ADAPTADOR DE ROSCA / РЕЗЬБОВОЙ АДАПТОР**

| COD.         |  |  |  |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>64612</b> | 20                                                                                | 10                                                                                | •                                                                                 |




**ALARGADERA / EXTENSION / RALLONGE / VERLÄNGERUNG / PROLUNGA / EXTENÇÃO / УДЛИНИТЕЛЬ**

| COD.         |  AF mm |  AF inch | L (mm) |  |  |  |
|--------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>64613</b> | 11,1                                                                                    | 7/16                                                                                      | 300    | 290                                                                               | 10                                                                                | •                                                                                   |



**BROCA / DRILL / MÈCHE / BOHRER / PUNTE / BROCA / СВЕРЛО**






| COD.         | L (mm) |  O.D. mm |  |  |  |
|--------------|--------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>64614</b> | 75     | 6,3                                                                                       | 15                                                                                | 10                                                                                | •                                                                                   |



**JUEGOS DE CORONA BIMETAL / BI-METAL HOLE SAW SETS / JEUX DE SCIES CLOCHES BI-MÉTAL / BI-METALL LOCHSÄGE SÄTZE / SET DI SEGHA A TAZZA BIMETALLICA / JOGOS DE BROCAS CRANEANAS / КОМПЛЕКТЫ ВРЕЗНЫХ БИМЕТАЛЛИЧЕСКИХ КОРОНОК**






**9 PCS.**

| COD.         | PCS. |  |  |
|--------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>57655</b> | 9    | 1250                                                                                | 1                                                                                   |






| PCS. | Composición / Composition / Composition  |  |    |
|------|------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 6    | 64550, 64554, 64559, 64565, 64571, 64578 | 14-21-28-37-46-60 mm   9/16-13/16-1.7/64-1.7/16-1.13/16-2.3/8 inch                  |  |
| 2    | 64601, 64602                             |                                                                                     |  |
| 1    | 64612                                    |                                                                                     |  |



| COD.         | PCS. |  |  |
|--------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>57656</b> | 9    | 1200                                                                                | 1                                                                                   |






| PCS. | Composición / Composition / Composition  |  |    |
|------|------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 6    | 64552, 64554, 64559, 64565, 64568, 64576 | 17-21-28-37-41-57 mm   11/16-13/16-1.7/64-1.7/16-1.5/8-2.1/4 inch                   |  |
| 2    | 64601, 64602                             |                                                                                     |  |
| 1    | 64612                                    |                                                                                     |  |

| COD.         | PCS. |  |  |
|--------------|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>57657</b> | 9    | 1200                                                                              | 1                                                                                 |






| PCS. | Composición / Composition / Composition  |  |    |
|------|------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 6    | 64554, 64557, 64562, 64565, 64571, 64574 | 21-25-32-37-46-52 mm   13/16-1-1.1/4-1.7/16-1.13/16-2.1/16 inch                   |  |
| 2    | 64601, 64602                             |                                                                                   |  |
| 1    | 64612                                    |                                                                                   |  |








| COD.         | PCS. |  |  |
|--------------|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>57658</b> | 9    | 1250                                                                              | 1                                                                                 |

| PCS. | Composición / Composition / Composition  |  |   |
|------|------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 6    | 64554, 64559, 64565, 64568, 64576, 64580 | 21-28-37-41-57-65 mm   13/16-1.7/64-1.7/16-1.5/8-2.1/4-2.9/16 inch                  |   |
| 2    | 64601, 64602                             |                                                                                     |   |
| 1    | 64612                                    |                                                                                     |  |

| COD.         | PCS. |  |  |
|--------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>64615</b> | 9    | 1200                                                                                | 1                                                                                   |

| PCS. | Composición / Composition / Composition  |  |    |
|------|------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 6    | 64553, 64555, 64564, 64566, 64570, 64581 | 19-22-35-38-44-67 mm   3/4-7/8-1.3/8-1.1/2-1.3/4-2.5/8 inch                         |  |
| 2    | 64601, 64602                             |                                                                                     |  |
| 1    | 64612                                    |                                                                                     |  |

| COD.         | PCS. |  |  |
|--------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>64651</b> | 9    | 900                                                                                 | 1                                                                                   |

| PCS. | Composición / Composition / Composition  |  |    |
|------|------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 6    | 64551, 64554, 64557, 64562, 64567, 64573 | 16-21-25-32-40-51 mm   5/8-13/16-1-1.1/4-1.9/16-2 inch                              |  |
| 2    | 64601, 64602                             |                                                                                     |  |
| 1    | 64612                                    |                                                                                     |  |

### 10 PCS.

| COD.                                         | PCS.                                            |                                                                    |   |
|----------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------|---|
| <b>57533</b>                                 | 10                                              | 1550                                                               | 1 |
| PCS. Composición / Composition / Composition |                                                 |                                                                    |   |
| 7                                            | 64550, 64552, 64557, 64562, 64568, 64574, 64578 | 14-17-25-32-41-52-60 mm   9/16-11/16-1-1/4-1.5/8-2.1/16-2.3/8 inch |   |
| 2                                            | 64601, 64602                                    |                                                                    |   |
| 1                                            | 64612                                           |                                                                    |   |



### 12 PCS.

| COD.                                         | PCS.                                                   |                                                                                          |   |
|----------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------|---|
| <b>57532</b>                                 | 12                                                     | 1800                                                                                     | 1 |
| PCS. Composición / Composition / Composition |                                                        |                                                                                          |   |
| 8                                            | 64550, 64552, 64557, 64562, 64565, 64571, 64574, 64580 | 14-17-25-32-37-46-52-65 mm   9/16-11/16-1.1/64-1.17/64-1.7/16-1.13/16-2.1/16-2.9/16 inch |   |
| 2                                            | 64601, 64602                                           |                                                                                          |   |
| 1                                            | 64612                                                  |                                                                                          |   |
|                                              | 64613                                                  |                                                                                          |   |





| COD.                                         | PCS.                                                   |                                                                                       |   |
|----------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------|---|
| <b>57534</b>                                 | 12                                                     | 1900                                                                                  | 1 |
| PCS. Composición / Composition / Composition |                                                        |                                                                                       |   |
| 8                                            | 64552, 64554, 64559, 64562, 64568, 64571, 64576, 64580 | 17-21-28-32-41-46-57-65 mm   11/16-13/16-1.7/64-1.1/4-1.5/8-1.13/16-2.1/4-2.9/16 inch |   |
| 2                                            | 64601, 64602                                           |                                                                                       |   |
| 1                                            | 64612                                                  |                                                                                       |   |
|                                              | 64613                                                  |                                                                                       |   |

### 14 PCS.

| COD.                                         | PCS.                                                                 |                                                                                       |   |
|----------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------|---|
| <b>64616</b>                                 | 14                                                                   | 2100                                                                                  | 1 |
| PCS. Composición / Composition / Composition |                                                                      |                                                                                       |   |
| 10                                           | 64553, 64555, 64560, 64564, 64566, 64570, 64573, 64576, 64579, 64581 | 19-22-29-35-38-44-51-57-64-67 mm   3/4-7/8-1.1/8-1.3/8-1.3/4-2-2.1/4-2.1/2-2.5/8 inch |   |
| 2                                            | 64601, 64602                                                         |                                                                                       |   |
| 1                                            | 64612                                                                |                                                                                       |   |
|                                              | 64613                                                                |                                                                                       |   |





■ **BROCA ESCALONADA / STEP DRILL / MÈCHE ÉCHELONNÉE / SPIRALBOHRER / PUNTA SCANALATA / BROCA ESCALONADA / СТУПЕНЧАТОЕ СВЕРЛО**

| COD.  |  O.D.<br>mm |  g |  |  |
|-------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 64617 | 4-12                                                                                         | 25                                                                                  |                                                                                   |                                                                                    |
| 64618 | 4-20                                                                                         | 60                                                                                  | 1                                                                                 | •                                                                                  |
| 64619 | 4-30                                                                                         | 180                                                                                 |                                                                                   |                                                                                    |






■ **SET**

■ **3 PCS.**




| COD.  | PCS. |  g |  |
|-------|------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 64620 | 3    | 300                                                                                 | 1                                                                                 |
| PCS.  |      | COD. PCS.                                                                           |                                                                                   |
|       |      | 64617                                                                               | Ø 4-12 mm                                                                         |
| 1     |      | 64618                                                                               | Ø 4-20 mm                                                                         |
|       |      | 64619                                                                               | Ø 4-30 mm                                                                         |

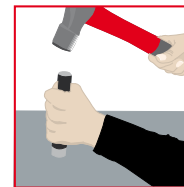


■ **SACABOCADOS / HOLLOW PUNCHES / EMPORTE PIÈCES / HENKELLOCHEISEN / SACABOCADOS / SACA BOCADOS / ВЫРУБАТЕЛИ ПРОКЛАДОК**

| COD.  |  O.D.<br>mm | L (mm) |  g |  |
|-------|-----------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 64671 | 5                                                                                             |        | 15                                                                                   |                                                                                     |
| 64672 | 6                                                                                             |        |                                                                                      |                                                                                     |
| 64673 | 8                                                                                             |        | 20                                                                                   |                                                                                     |
| 64674 | 10                                                                                            |        | 25                                                                                   |                                                                                     |
| 64675 | 12,5                                                                                          | 27     | 30                                                                                   | 10                                                                                  |
| 64676 | 16                                                                                            |        | 40                                                                                   |                                                                                     |
| 64677 | 20                                                                                            |        | 50                                                                                   |                                                                                     |
| 64678 | 25                                                                                            |        | 60                                                                                   |                                                                                     |
| 64679 | 32                                                                                            |        | 80                                                                                   |                                                                                     |





| COD.  |  O.D.<br>mm |  g |  |
|-------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 64680 | 5-32                                                                                           | 250                                                                                   | 1                                                                                   |



■ **SET**

■ **10 PCS.**

| COD.                                                                 | PCS. |  g |  |
|----------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 64670                                                                | 10   | 900                                                                                   | 1                                                                                   |
| Composición / Composition / Composition                              |      |                                                                                       |                                                                                     |
| 64671, 64672, 64673, 64674, 64675, 64676, 64677, 64678, 64679, 64680 |      | 5-6-8-10-12,5-16-20 25 32 mm                                                          |                                                                                     |



# PROYECTOS PRINCIPALES

## *MAIN PROJECTS*

# PRINCIPAUX PROJETS

**AER**nova

**AERNNOVA - SECTOR AERONÁUTICO / AERNNOVA - AEROSPACE  
SECTOR / AERNNOVA - SECTEUR AÉRONAUTIQUE**

**LINEA MONTAJE AIRBUS A350 / AIRBUS A350 ASSEMBLY LINE /  
LIGNE DE MONTAJE AIRBUS A350**

ESPAÑA / SPAIN / ESPAGNE



26

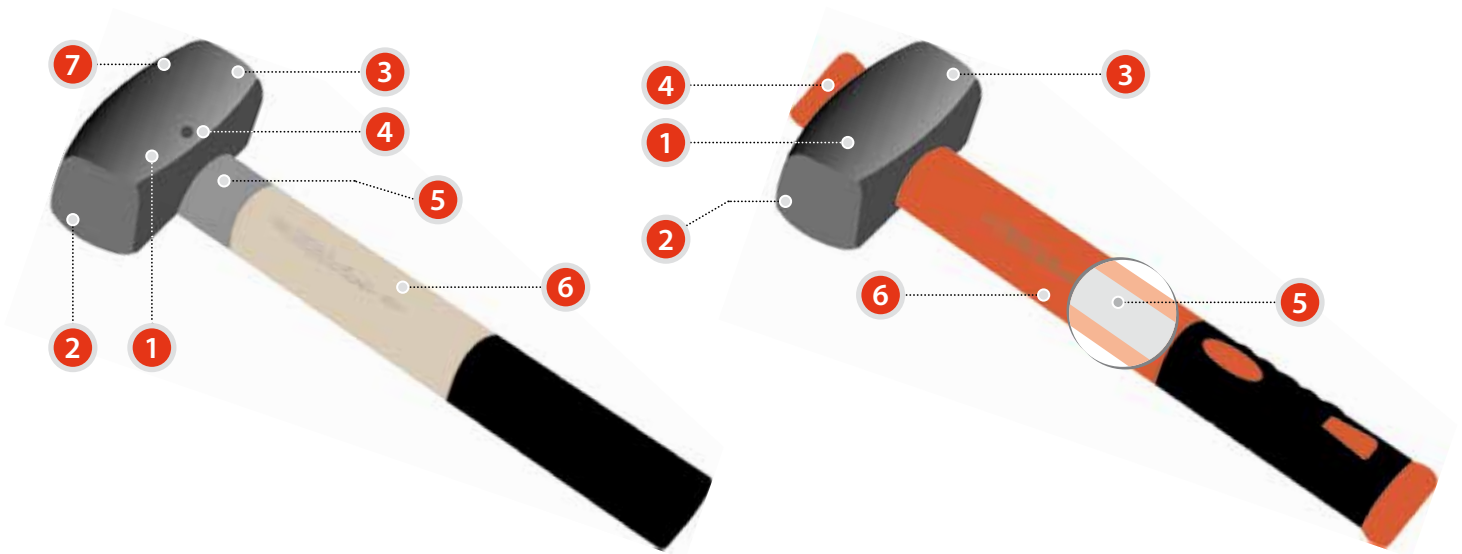
MARTILLOS  
HAMMERS  
MARTEAUX  
HÄMMER  
MARTELLI  
MARTELOS  
МОЛОТКИ И КУВАЛДЫ



EGA Master ha renovado su gama de martillos con mango de madera y fibra de vidrio para satisfacer la demanda de los usuarios más profesionales. La fijación de la cabeza-mango está reforzada en ambos tipos de martillos, de modo que la cabeza nunca saldrá despedida. Los materiales empleados durante su fabricación garantizan un uso duradero. Por todo ello, lo martillos EGA Master son garantía de calidad en usos industriales.

EGA Master has renewed its range of wooden and fiberglass handles to satisfy the demand from the most professional user. The handle-head fixation is reinforced in both handle types, completely avoiding the disattachment of the head from the handle. Their manufacturing materials guarantee a durable use. For these reasons, EGA Master handles are a quality guarantee for industrial uses.

EGA Master a renouvelé sa gamme de marteaux avec un manche en bois et en fibre pour satisfaire la demande des usagers les plus professionnels. La fixation de la tête-manche est renforcée dans les deux types de marteau, d'un mode que la tête ne sera pas détachée. Les matières utilisées dans leur fabrication garantissent l'usage durable des mêmes. Pour toutes ces raisons, les marteaux EGA Master sont une garantie de qualité des utilisations industrielles.



**1** Acero especial de alta resistencia.  
*High resistance special steel.*  
Acier spécial de haute résistance.

**2** 50-58HRC en cara de golpeo (ISO 15601).  
*50-58HRC in impact area (ISO 15601).*  
50-58HRC sur les faces de frappe (ISO 15601).

**3** Acabado gris martelé.  
*Grey hammer tone finishing.*  
Finition gris martelé.

**4** Pasador de fijación y seguridad o mango cónico para unión perfecta mango-cabeza.  
*Safety pin or conical go-through handle for perfect fixation handle-head.*

Goupille de fixation sécurisée ou emmenchement conique pour une union parfaite manche-tête.

**5** Pieza de refuerzo para evitar la rotura del mango en su punto crítico.  
*Reinforced piece to avoid the breakage of the handle in its critical zone.*

Pièce de renfort afin d'éviter la rupture du manche au point critique.

**6** Mango de madera de alta calidad.  
*High quality wooden handle.*

Manche en bois de haute qualité.

**7** Cuña cónica para mejorar la distribución de presión.  
*Conical wedge to improve the pressure distribution.*  
Coin pour une meilleure répartition de la force de frappe.

**1** Acero especial de alta resistencia.  
*High resistance special steel.*  
Acier spécial de haute résistance.

**2** 50-58HRC en cara de golpeo (ISO 15601).  
*50-58HRC in hitting face (ISO 15601).*  
50-58HRC sur les faces de frappe (ISO 15601).

**3** Acabado gris martelé.  
*Grey hammer tone.*  
Finition gris martelé.

**4** Mango cónico pasante o pasador de fijación y seguridad para unión perfecta con la cabeza.  
*Conical go-through handle or safety pin for perfect fixation to the head.*

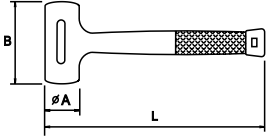
Emmenchement conique ou goupille de fixation sécurisée pour une meilleure fixation de la tête de la massette.

**5** Fibra de vidrio ultra-resistente.  
*Ultra-resistant fiberglass.*  
Fibre en verre ultra-résistante.

**6** Exterior del mango en PP y TPR: firmeza y adherencia.  
*Handle outer zone in PP and TPR: strength and adherence.*

Extérieur du manche en PP & TPR pour une plus grande dureté et une meilleure adhérence.

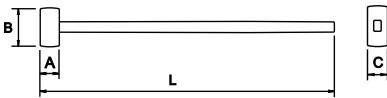
ANTIRREBOTE / DEAD BLOW HAMMER / MARTEAU ANTI REBOND / HAMMER RÜCKSCHLAGFREI / MARTELO ANTIRIMBALZO / MARTELO SEM RICOCHETE / МОЛЛОТКО БЕЗ ОТСКОКА



| COD.  |     | L (mm) | Ø A (mm) | B (mm) |   |   |
|-------|-----|--------|----------|--------|---|---|
| 69748 | 0,5 | 275    | 40       | 80     |   |   |
| 69750 | 1,5 | 325    | 50       | 110    | 6 | • |
| 69752 | 3   | 360    | 60       | 130    |   |   |
| 69753 | 4   | 425    | 65       | 140    |   |   |
| 69754 | 5   | 430    | 70       | 150    | 3 | - |



MAZA CUADRADA TIPO ALEMÁN / GERMAN TYPE STONING HAMMER / MASSE CARREE TYPE ALLEMAND / STEINSLIGGER / MAZZA MOD ALEMAN / MARRETA QUADRADA MOD. ALEMAN / КУВАЛДА НЕМЕЦКИЙ ТИП ДЛЯ КАМНЯ

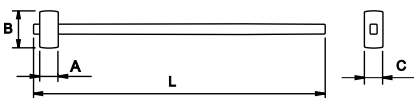


| COD.  |    | L (mm) | A (mm) | B (mm) | C (mm) |   |
|-------|----|--------|--------|--------|--------|---|
| 69640 | 3  | 900    | 56     | 135    | 56     | 1 |
| 69641 | 4  |        | 61     | 145    | 64     |   |
| 69642 | 5  |        | 68     | 151    | 68     |   |
| 69643 | 6  |        | 70     | 165    | 70     |   |
| 69648 | 8  |        | 83     | 180    | 83     |   |
| 69655 | 10 |        | 86     | 200    | 86     |   |



CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Madera de nogal / Hickory wood / Bois de noyer



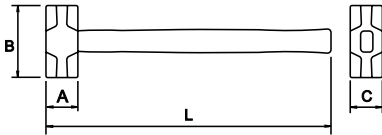
| COD.  |    | L (mm) | A (mm) | B (mm) | C (mm) |   |
|-------|----|--------|--------|--------|--------|---|
| 69644 | 3  | 900    | 56     | 135    | 56     | 1 |
| 69645 | 4  |        | 61     | 145    | 64     |   |
| 69646 | 5  |        | 68     | 151    | 68     |   |
| 69647 | 6  |        | 70     | 165    | 70     |   |
| 69649 | 9  |        | 83     | 180    | 83     |   |
| 69677 | 10 |        | 86     | 200    | 86     |   |





CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Fibra de vidrio / Fiberglass / Fibre de verre

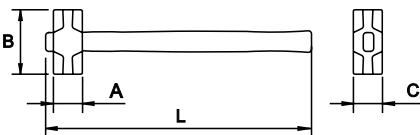
• Consultar con EGA Master la selección del mango / Consult with EGA Master the selection of the handle / À consulter avec EGA Master la sélection de manches



**MAZA DE CARAS OCTOGONALES / SLEDGE HAMMER / MASSE OCTOGONALE / STEINSLIGGER / MAZZA OTTOGONALE / MARRETA OCTOGONAL / КУВАЛДА КУЗНЕЧНАЯ**


| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) |  |
|-------|-----------------------------------------------------------------------------------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|
| 69650 | 4                                                                                 | 400    | 51     | 136    | 48     | 4                                                                                   |
| 69651 | 6                                                                                 | 900    | 54     | 146    | 51     | 1                                                                                   |
| 69652 | 8                                                                                 |        | 58     | 161    | 59     |                                                                                     |
| 69653 | 10                                                                                |        | 64     | 173    | 62     |                                                                                     |
| 69654 | 12                                                                                |        | 66     | 180    | 66     |                                                                                     |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

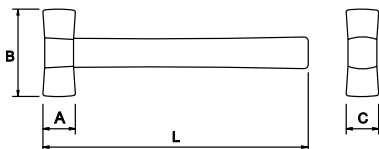
Madera de nogal / Hickory wood / Bois de noyer






| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) |  |
|-------|------------------------------------------------------------------------------------|--------|--------|--------|--------|--------------------------------------------------------------------------------------|
| 68530 | 4                                                                                  | 400    | 51     | 136    | 48     | 1                                                                                    |
| 68532 | 8                                                                                  | 900    | 58     | 161    | 59     |                                                                                      |
| 68533 | 10                                                                                 |        | 64     | 173    | 62     |                                                                                      |
| 68534 | 12                                                                                 |        | 66     | 180    | 66     |                                                                                      |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

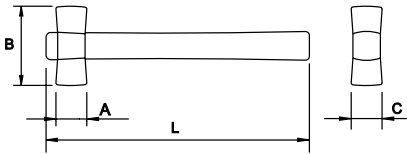
Fibra de vidrio / Fiberglass / Fibre de verre




**MACETA MOD. ESPAÑOL / SPANISH TYPE MALLET / MASSETTE ESPAGNOLE / FÄUSTEL / MAZZETA MOD. SPAGNOLO / MARRETA MOD. ESPANHOL / КУВАЛДА ИСПАНСКИЙ ТИП ДЛЯ КАМНЯ**


| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) |  |  |
|-------|-------------------------------------------------------------------------------------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 69659 | 0,7                                                                                 | 260    | 33     | 105    | 33     | 6                                                                                   | •                                                                                     |
| 69660 | 1                                                                                   | 280    | 37     | 129    | 37     |                                                                                     | -                                                                                     |
| 69661 | 1,4                                                                                 |        | 41     | 138    | 43     |                                                                                     |                                                                                       |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer



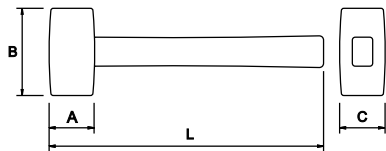
| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) |  |  |
|-------|-----------------------------------------------------------------------------------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 69662 | 0,7                                                                               | 255    | 33     | 105    | 33     | 6                                                                                 | ●                                                                                   |
| 69663 | 1                                                                                 | 280    | 37     | 129    | 37     | 4                                                                                 | -                                                                                   |
| 69664 | 1,4                                                                               | 280    | 41     | 138    | 43     | 4                                                                                 | -                                                                                   |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre de verre



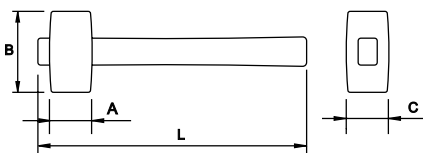
**MACETA CUADRADA TIPO ALEMÁN / GERMAN TYPE MALLET / MASSETTE TYPE ALLEMAND / FÄUSTEL / MAZZETA / MARRETA / КУВАЛДА НЕМЕЦКИЙ ТИП ДЛЯ КАМНЯ**





| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) |  |
|-------|-------------------------------------------------------------------------------------|--------|--------|--------|--------|---------------------------------------------------------------------------------------|
| 69665 | 0,8                                                                                 | 260    | 41     | 95     | 40     | 4                                                                                     |
| 69605 | 1                                                                                   | 280    | 42     | 99     | 43     | 2                                                                                     |
| 69607 | 1,5                                                                                 | 280    | 42     | 99     | 43     | 2                                                                                     |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer



| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) |  |
|-------|-------------------------------------------------------------------------------------|--------|--------|--------|--------|---------------------------------------------------------------------------------------|
| 69666 | 0,8                                                                                 | 260    | 41     | 95     | 40     | 4                                                                                     |
| 69667 | 1                                                                                   | 280    | 42     | 99     | 43     | 2                                                                                     |
| 69669 | 1,5                                                                                 | 290    | 42     | 99     | 43     | 2                                                                                     |

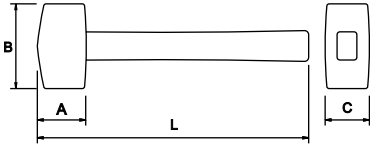
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre de verre



• Consultar con EGA Master la selección del mango / Consult with EGA Master the selection of the handle / À consulter avec EGA Master la sélection de manches

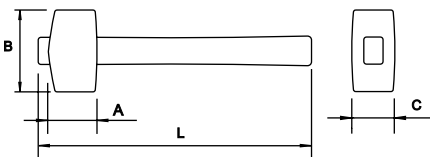
**MACETA MODELO INGLÉS / BRITISH TYPE MALLET / MASSETTE TYPE ANGLAIS / FÄUSTEL / MAZZETA MOD. INGLES / MARRETA MOD. INGLES / КУВАЛДА БРИТАНСКИЙ ТИП ДЛЯ КАМНЯ**



| COD.         |   | L (mm) | A (mm) | B (mm) | C (mm) |   |
|--------------|---|--------|--------|--------|--------|---|
| <b>69672</b> | 3 | 280    | 46     | 104    | 45     | 4 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer



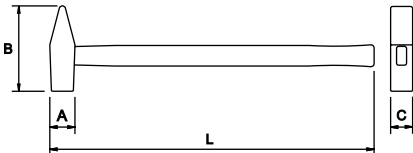
| COD.         |     | L (mm) | A (mm) | B (mm) | C (mm) |   |
|--------------|-----|--------|--------|--------|--------|---|
| <b>69673</b> | 2,5 | 280    | 45     | 92     | 45     | 1 |
| <b>69674</b> | 3   |        | 46     | 104    |        |   |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre de verre



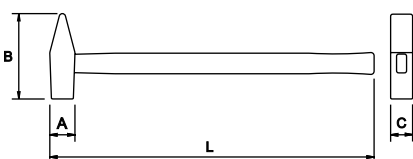
**MARTILLO ALEMÁN / GERMAN TYPE MACHINIST'S HAMMER / MARTEAU DE MECANICIEN / SCHLOSSERHAMMER, DEUTSCHE FORM / MARTELLO TEDESCO / MARTELO TIPO ALEMÃO / СЛЕСАРНЫЙ МОЛОТОК НЕМЕЦКИЙ ТИП**



| COD.         |     | L (mm) | A (mm) | B (mm) | C (mm) |   |   |
|--------------|-----|--------|--------|--------|--------|---|---|
| <b>69618</b> | 200 | 275    | 20     | 96     | 21     | 6 | ● |
| <b>69619</b> | 300 | 305    | 23     | 103    | 23     |   |   |
| <b>69620</b> | 400 | 325    | 27     | 118    | 28     |   |   |
| <b>69621</b> | 500 |        | 29     | 123    | 31     |   |   |
| <b>69622</b> | 600 | 340    | 33     | 128    | 32     |   |   |
| <b>69675</b> | 800 | 355    | 37     | 135    | 37     |   |   |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**




Madera de nogal / Hickory wood / Bois de noyer



| COD.         |     | L (mm) | A (mm) | B (mm) | C (mm) |   |   |
|--------------|-----|--------|--------|--------|--------|---|---|
| <b>69731</b> | 200 | 255    | 20     | 96     | 21     | 6 | ● |
| <b>69732</b> | 300 | 275    | 23     | 103    | 23     |   |   |
| <b>69733</b> | 400 | 300    | 27     | 118    | 28     |   |   |
| <b>69734</b> | 500 |        | 29     | 123    | 31     |   |   |

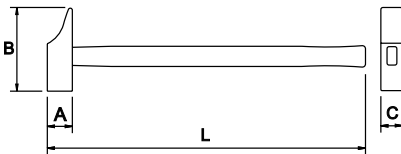







| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) |  |  |
|-------|-----------------------------------------------------------------------------------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 69735 | 600                                                                               | 300    | 29     | 123    | 31     |                                                                                   |                                                                                     |
| 69736 | 800                                                                               |        | 33     | 128    | 32     | 6                                                                                 | •                                                                                   |
| 69737 | 1000                                                                              | 350    | 37     | 135    | 37     |                                                                                   |                                                                                     |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

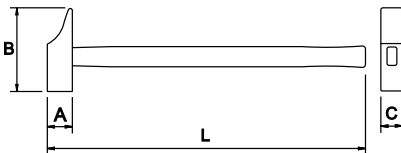
Fibra de vidrio / Fiberglass / Fibre de verre




**MARTILLO DE EBANISTA / JOINER'S HAMMER / MARTEAU DE MENUISIER / HOLZSCHNITZERHAMMER / MARTELO FALEGNAME / MARTELO DE PENA / СТОЛЯРНЫЙ МОЛОТОК**


| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) |  |  |
|-------|-----------------------------------------------------------------------------------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 69601 | 150                                                                               |        | 18     | 88     | 17     |                                                                                   |                                                                                     |
| 69602 | 200                                                                               | 270    | 20     | 93     | 19     |                                                                                   |                                                                                     |
| 69603 | 250                                                                               |        | 22     | 97     | 23     |                                                                                   |                                                                                     |
| 69604 | 350                                                                               | 300    | 25     | 107    | 24     | 6                                                                                 | •                                                                                   |
| 69681 | 450                                                                               |        | 28     | 116    | 27     |                                                                                   |                                                                                     |
| 69682 | 550                                                                               | 310    | 30     | 121    | 29     |                                                                                   |                                                                                     |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

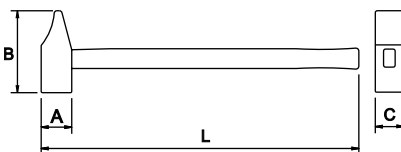
Madera de nogal / Hickory wood / Bois de noyer






| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) |  |  |
|-------|-------------------------------------------------------------------------------------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 69684 | 150                                                                                 |        | 18     | 88     | 17     |                                                                                     |                                                                                       |
| 69685 | 200                                                                                 | 250    | 20     | 93     | 19     |                                                                                     |                                                                                       |
| 69686 | 250                                                                                 |        | 22     | 97     | 23     |                                                                                     |                                                                                       |
| 69687 | 350                                                                                 | 278    | 25     | 107    | 24     | 6                                                                                   | •                                                                                     |
| 69688 | 450                                                                                 |        | 28     | 116    | 27     |                                                                                     |                                                                                       |
| 69689 | 550                                                                                 |        | 30     | 121    | 29     |                                                                                     |                                                                                       |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**




Fibra de vidrio / Fiberglass / Fibre de verre

**MARTILLO RIVOIR / FRENCH TYPE MACHINIST'S HAMMER / MARTEAU RIVOIR / RIVOIR HAMMER / MARTELO RIVOIR / MARTELO PENA TIPO RIVOIR / СЛЕСАРНЫЙ МОЛОТОК ФРАНЦУЗСКИЙ ТИП**


| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) |  |  |
|-------|-------------------------------------------------------------------------------------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 69691 | 250                                                                                 | 280    | 25     | 96     | 25     |                                                                                     |                                                                                       |
| 69692 | 375                                                                                 | 300    | 30     | 96     | 30     | 6                                                                                   | •                                                                                     |
| 69693 | 675                                                                                 | 350    | 35     | 102    | 35     |                                                                                     |                                                                                       |

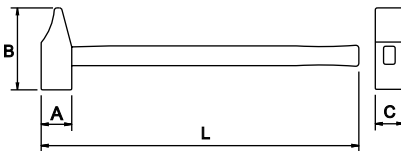





• Consultar con EGA Master la selección del mango / Consult with EGA Master the selection of the handle / À consulter avec EGA Master la sélection de manches

| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) |  |  |
|-------|-----------------------------------------------------------------------------------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 69694 | 900                                                                               | 350    | 40     | 116    | 40     | 6                                                                                 | •                                                                                   |
| 69695 | 1100                                                                              |        | 45     | 124    | 45     |                                                                                   |                                                                                     |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

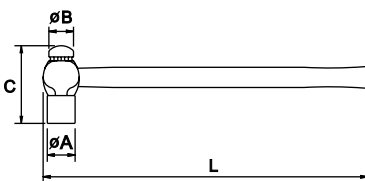
Madera de nogal / Hickory wood / Bois de noyer






| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) |  |  |
|-------|-----------------------------------------------------------------------------------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 69738 | 250                                                                               | 270    | 25     | 96     | 25     |                                                                                   |                                                                                     |
| 69739 | 375                                                                               | 300    | 30     |        | 30     |                                                                                   |                                                                                     |
| 69740 | 675                                                                               |        | 35     | 102    | 35     | 6                                                                                 | •                                                                                   |
| 69741 | 900                                                                               | 350    | 40     | 116    | 40     |                                                                                   |                                                                                     |
| 69756 | 1100                                                                              |        | 45     | 124    | 45     |                                                                                   |                                                                                     |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

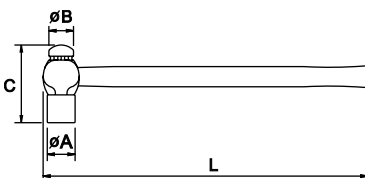
Fibra de vidrio / Fiberglass / Fibre de verre




**MARTILLO DE BOLA / BALL PEIN HAMMER / MARTEAU À BOULE / SCHLOSSERHAMMER, ENGLISCHE FORM / MARTELO A PALLA / MARTELO DE BOLA / МОЛОТОК С ШАРОВОЙ ГОЛОВКОЙ**


| COD.  |  | Mod. | L (mm) | Ø A (mm) | Ø B (mm) | C (mm) |  |  |
|-------|-------------------------------------------------------------------------------------|------|--------|----------|----------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 69612 | 250                                                                                 | A    | 280    | 23       | 22       | 80     |                                                                                     |                                                                                       |
| 69613 | 350                                                                                 | B    | 300    |          | 27       | 94     |                                                                                     |                                                                                       |
| 69614 | 500                                                                                 | C    | 320    | 30       | 28       | 104    | 1                                                                                   | •                                                                                     |
| 69616 | 700                                                                                 | E    | 340    | 32       | 30       | 118    |                                                                                     |                                                                                       |
| 69617 | 1000                                                                                | F    | 370    | 39       | 32       | 127    |                                                                                     |                                                                                       |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

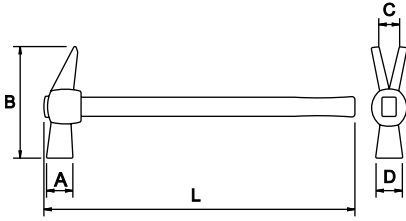
Madera de nogal / Hickory wood / Bois de noyer






| COD.  |  | Mod. | L (mm) | Ø A (mm) | Ø B (mm) | C (mm) |  |  |
|-------|-------------------------------------------------------------------------------------|------|--------|----------|----------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 69704 | 250                                                                                 | A    | 270    | 23       | 22       | 80     |                                                                                     |                                                                                       |
| 69705 | 350                                                                                 | B    | 300    |          | 27       | 94     |                                                                                     |                                                                                       |
| 69706 | 500                                                                                 | C    | 300    | 30       | 28       | 104    | 1                                                                                   | •                                                                                     |
| 69758 | 600                                                                                 | D    |        | 32       | 30       | 118    |                                                                                     |                                                                                       |
| 69707 | 700                                                                                 | E    | 340    |          |          |        |                                                                                     |                                                                                       |
| 69708 | 1000                                                                                | F    |        | 39       | 32       | 127    |                                                                                     |                                                                                       |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

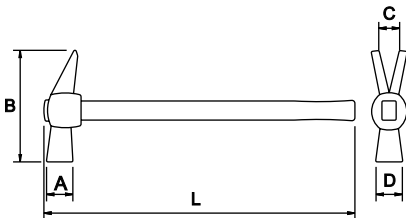
Fibra de vidrio / Fiberglass / Fibre de verre




**MARTILLO DE ENCOFRADOR / SPANISH TYPE CLAW HAMMER / MARTEAU DE COFFREUR / KLAUENHAMMER / MARTELO CARPENTIERE / MARTELO DE COFRADOR / МОЛОТОК-ГВОЗДОДЕР ИСПАНСКИЙ ТИП**


| COD.  |  g | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |  |  |
|-------|-------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 69711 | 300                                                                                 | 380    | 23     | 129    | 8      | 26     |                                                                                   |                                                                                     |
| 69712 | 400                                                                                 | 400    | 29     | 141    | 12     | 29     | 6                                                                                 | •                                                                                   |
| 69713 | 500                                                                                 |        |        | 142    |        |        |                                                                                   |                                                                                     |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

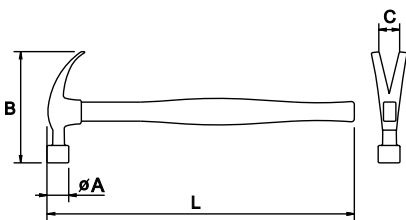
Madera de nogal / Hickory wood / Bois de noyer





| COD.  |  g | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |  |  |
|-------|---------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 69715 | 300                                                                                   |        | 23     | 129    | 8      | 26     |                                                                                     |                                                                                       |
| 69716 | 400                                                                                   | 385    | 29     | 141    | 12     | 29     | 6                                                                                   | •                                                                                     |
| 69717 | 500                                                                                   |        |        | 142    |        |        |                                                                                     |                                                                                       |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre de verre

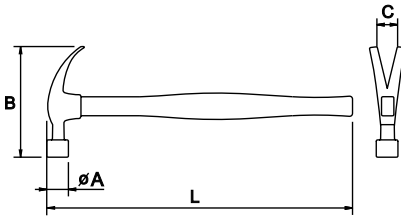
**MARTILLO DE UÑA / CLAW HAMMER / MARTEAU DE CHARPENTIER / KLAUENHAMMER / MARTELO CARPENTIERE / MARTELO DE UNHA / МОЛОТОК-ГВОЗДОДЕР**




| COD.  |  g | L (mm) | Ø A (mm) | B (mm) | C (mm) |  |  |
|-------|---------------------------------------------------------------------------------------|--------|----------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 69742 | 600                                                                                   | 330    | 34       | 145    | 7      | 6                                                                                   | •                                                                                     |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer

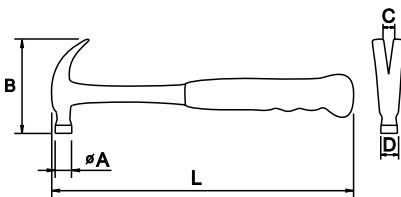
• Consultar con EGA Master la selección del mango / Consult with EGA Master the selection of the handle / À consulter avec EGA Master la sélection de manches





| COD.  |  | L (mm) | Ø A (mm) | B (mm) | C (mm) |  |  |
|-------|-----------------------------------------------------------------------------------|--------|----------|--------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 69719 | 550                                                                               | 330    | 30       | 138    | 7      | 6                                                                                 | •                                                                                   |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre de verre



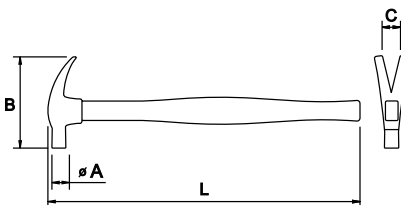
| COD.  | Oz. | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |  |  |
|-------|-----|--------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 69680 | 16  | 338    | 29     | 130    | 8      | 29     | 6                                                                                 | •                                                                                   |




**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Mango forjado / Forged handle / Manche forgée



**MARTILLO DE UÑA MODELO AMERICANO / AMERICAN CLAW HAMMER / MARTEAU DE CHARPENTIER MODÈLE AMÉRICAIN / KLAUENHAMMER / MARTELLO CARPENTIERE / MARTELO DE UNHA MOD. AMERICANO / МОЛОТОК-ГВОЗДОДЕР АМЕРИКАНСКИЙ ТИП**

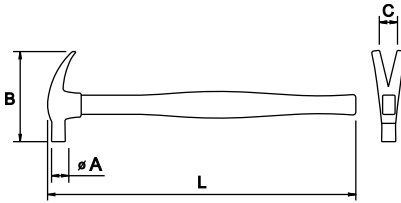





| COD.  |  | L (mm) | Ø A (mm) | B (mm) | C (mm) |  |  |
|-------|-------------------------------------------------------------------------------------|--------|----------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 69679 | 250                                                                                 | 280    | 21       | 102    |        |                                                                                     |                                                                                       |
| 69608 | 350                                                                                 | 300    | 23       | 111    | 6      |                                                                                     |                                                                                       |
| 69609 | 450                                                                                 |        | 25       | 128    |        | 6                                                                                   | •                                                                                     |
| 69610 | 525                                                                                 | 320    | 27       | 132    | 7      |                                                                                     |                                                                                       |
| 69611 | 600                                                                                 |        | 29       | 136    | 9      |                                                                                     |                                                                                       |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer

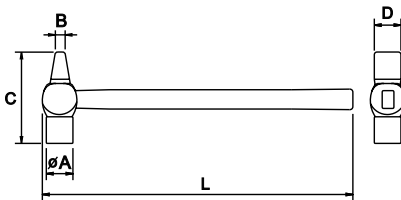







| COD.  |  | L (mm) | Ø A (mm) | B (mm) | C (mm) |  |  |   |
|-------|-----------------------------------------------------------------------------------|--------|----------|--------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|
| 69743 | 250                                                                               | 300    | 21       | 102    | 6      | 6                                                                                 | ●                                                                                   |   |
| 69744 | 350                                                                               |        | 23       | 111    |        |                                                                                   |                                                                                     |   |
| 69745 | 450                                                                               | 330    | 25       | 128    | 6      | 6                                                                                 | ●                                                                                   |   |
| 69746 | 525                                                                               |        | 27       | 132    |        |                                                                                   |                                                                                     | 7 |
| 69747 | 600                                                                               |        | 29       | 136    |        |                                                                                   |                                                                                     | 9 |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

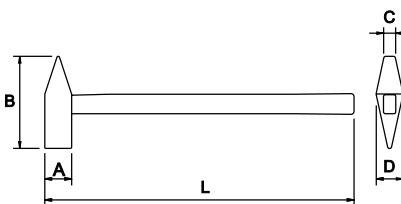
Fibra de vidrio / Fiberglass / Fibre de verre




**MARTILLO MECÁNICO DE PEÑA / ENGINEER'S CROSS PEIN HAMMER / MARTEAU À GARNIR / SCHLOSSERHAMMER / MECCANICO CON PENNA / MECÂNICO DE PENNA / МОЛОТОК-ГВОЗДОДЕР КВАДРАТНЫЙ**


| COD.  |  | L (mm) | Ø A (mm) | B (mm) | C (mm) | D (mm) |  |  |
|-------|-------------------------------------------------------------------------------------|--------|----------|--------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 69700 | 200                                                                                 | 300    | 20       | 5      | 104    | 22     | 6                                                                                   | ●                                                                                     |
| 69701 | 250                                                                                 |        | 22       | 6      | 117    | 26     |                                                                                     |                                                                                       |
| 69702 | 350                                                                                 | 320    | 25       | 6      | 118    | 26     | 6                                                                                   | ●                                                                                     |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer

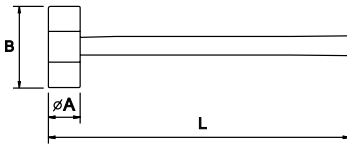
**PICO DE CALDERERO / CHIPPING HAMMER / POCHE DE CHAUDRONNIER / KESSELSTEINHAMMER / PICONE DA BATTIRAME / PICADEIRA DE CALDEIREIRO / МОЛОТОК ВЫРУБНОЙ**







| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |  |  |
|-------|-------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 69678 | 500                                                                                 | 320    | 27     | 150    | 27     | 27     | 6                                                                                   | ●                                                                                     |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer

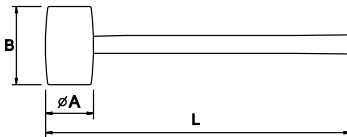
• Consultar con EGA Master la selección del mango / Consult with EGA Master the selection of the handle / À consulter avec EGA Master la sélection de manches




**MACETA DE NYLON / NYLON Mallet / MARTEAU NYLON / NYLON-HAMMER / MARTELLO DI NYLON / MARTELO DE NYLON / НЕЙЛОНОВЫЙ МОЛОТОК**


| COD.  |  | L (mm) | A (mm) | B (mm) |  |  |  |  |
|-------|-----------------------------------------------------------------------------------|--------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 55325 | 235                                                                               | 290    | 26     | 80     | 6                                                                                 | ●                                                                                 | 85426                                                                             | 84210                                                                               |
| 55326 | 340                                                                               | 310    | 30     | 85     |                                                                                   |                                                                                   | 85427                                                                             | 84211                                                                               |
| 55327 | 490                                                                               | 315    | 35     | 95     |                                                                                   |                                                                                   | 85428                                                                             | 84212                                                                               |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

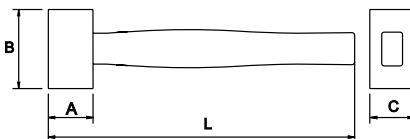
Madera de nogal / Hickory wood / Bois de noyer





**MACETA DE GOMA / BLACK RUBBER Mallet / MARTEAU EN CAOUTCHOUC / GUMMI-HAMMER / MAZZUOLA DI GOMMA / MAÇO DE BORRACHA / РЕЗИНОВЫЙ МОЛОТОК**


| COD.  |  | L (mm) | Ø A (mm) | B (mm) |  |  |
|-------|-------------------------------------------------------------------------------------|--------|----------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 69520 | 340                                                                                 | 320    | 60       | 100    | 2                                                                                   | ●                                                                                     |
| 69521 | 450                                                                                 | 340    | 65       | 115    |                                                                                     |                                                                                       |
| 69726 | 900                                                                                 | 350    | 80       | 125    |                                                                                     |                                                                                       |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer

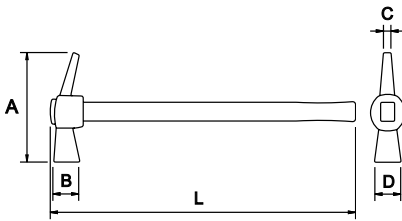
**MACETA DE COBRE / SQUARE COPPER Mallet / MASSETTE CUIVRE / KUPFERHAMMER / MAZZETTA DI RAME / MARRETA DE COBRE / КВОДРАТНАЯ МЕДНАЯ КУВАЛДА**





| COD.  |  |  | L (mm) | A (mm) | B (mm) | C (mm) |  |  |
|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 69728 | 500                                                                                 | 30                                                                                  | 240    | 26     | 77     | 29     | 6                                                                                   | ●                                                                                     |
| 69729 | 1000                                                                                | 35                                                                                  | 260    | 36     | 88     | 39     | 4                                                                                   |                                                                                       |
| 69730 | 1500                                                                                | 40                                                                                  | 280    | 41     | 99     | 43     | 4                                                                                   |                                                                                       |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer

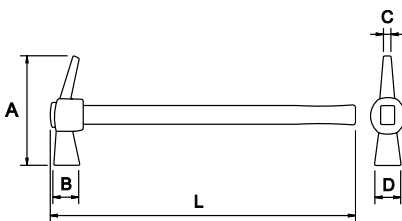
■ PICOS / PICKS / PIOCHES / MAURER-HAMMER / PICCONI / PICADEIRA / КИРКИ






| COD.  |  g | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |  |  |
|-------|-------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 69759 | 400                                                                                 | 380    | 229    | 39     | 5      | 34     | 6                                                                                 | •                                                                                   |
| 69760 | 500                                                                                 |        | 260    | 41     | 6      | 35     |                                                                                   |                                                                                     |

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

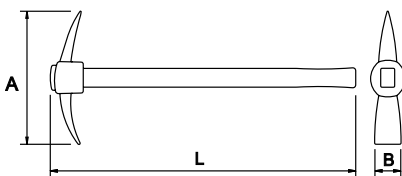
Madera de nogal / Hickory wood / Bois de noyer



| COD.  |  g | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |  |  |
|-------|---------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 69762 | 400                                                                                   | 385    | 229    | 39     | 5      | 34     | 6                                                                                   | •                                                                                     |
| 69761 | 500                                                                                   |        | 237    | 41     | 6      | 35     |                                                                                     |                                                                                       |

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Fibra de vidrio / Fiberglass / Fibre de verre



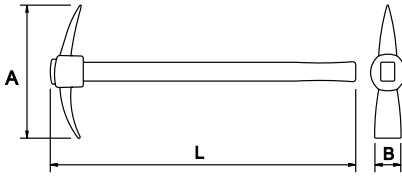
| COD.  |  g | L (mm) | A (mm) | B (mm) |  |
|-------|---------------------------------------------------------------------------------------|--------|--------|--------|---------------------------------------------------------------------------------------|
| 69765 | 500                                                                                   | 380    | 240    | 38     | 6                                                                                     |

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Madera de nogal / Hickory wood / Bois de noyer



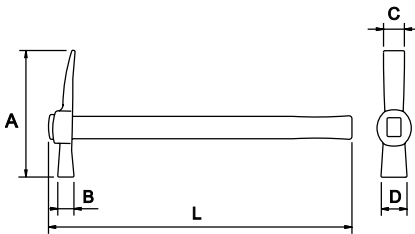
• Consultar con EGA Master la selección del mango / Consult with EGA Master the selection of the handle / À consulter avec EGA Master la sélection de manches



| COD.         |     | L (mm) | A (mm) | B (mm) |   |
|--------------|-----|--------|--------|--------|---|
| <b>69766</b> | 400 | 385    | 236    | 36     | 6 |
| <b>69767</b> | 500 |        | 240    | 38     |   |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

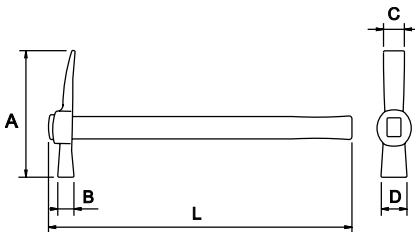
Fibra de vidrio / Fiberglass / Fibre de verre



| COD.         |     | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |   |
|--------------|-----|--------|--------|--------|--------|--------|---|
| <b>69770</b> | 400 | 380    | 237    | 10     | 10     | 36     | 6 |
| <b>69771</b> | 500 |        | 197    | 24     | 35     | 25     |   |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer



| COD.         |     | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |   |
|--------------|-----|--------|--------|--------|--------|--------|---|
| <b>69772</b> | 400 | 385    | 237    | 10     | 10     | 36     | 6 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

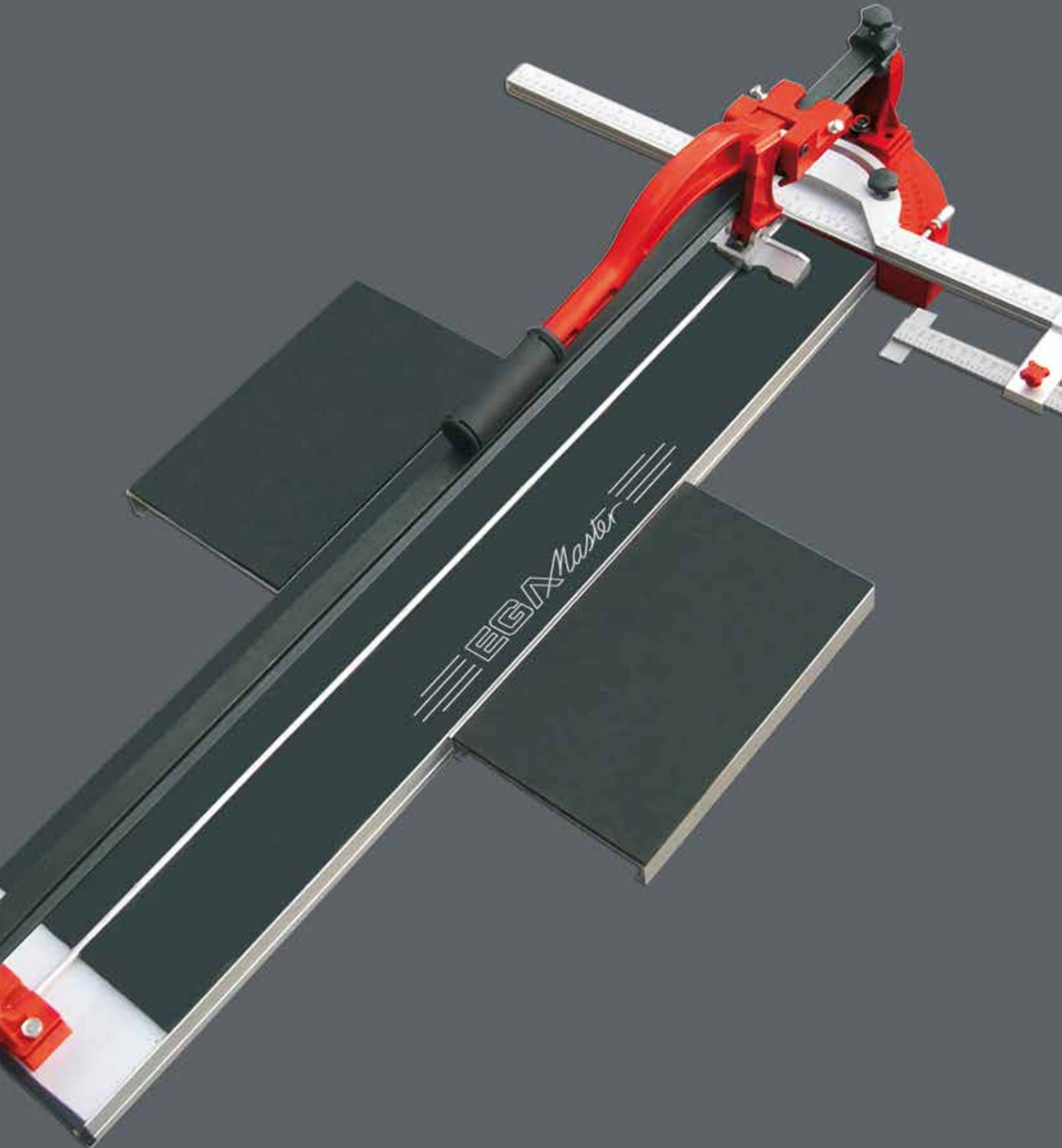
Fibra de vidrio / Fiberglass / Fibre de verre





27

CONSTRUCCIÓN  
CONSTRUCTION  
CONSTRUCTION  
BAUWESEN  
COSTRUZIONI  
CONSTRUÇÃO  
СТРОИТЕЛЬСТВО



**EGA Master** ofrece una amplia gama de cortaazulejos manuales diseñados para cortes rectos, angulares o circulares de cerámicas hasta 120 cm de ancho.

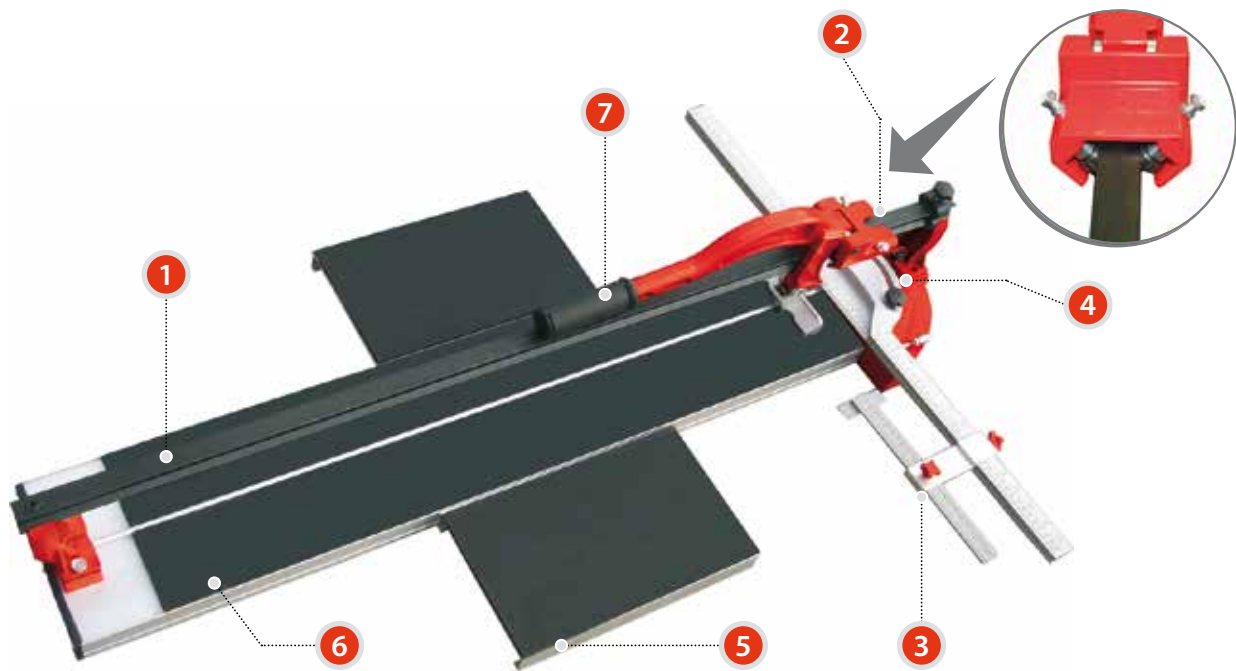
Todos ellos están equipados con guías tubulares o macizas para lograr un corte más preciso y profesional y provistos de una bolsa de nylon para facilitar su transporte.

*EGA Master offers a wide range of tile cutters designed for straight, angular and circular ceramic cuts up to 120cm wide.*

*All of them equipped with tubular or solid guides for accurate and professional cuts, and provided with a nylon bag for their easy transport.*

**EGA Master** offre une grande gamme de coupe carreaux manuels conçus pour des coupes droites, angulaires ou circulaires pour des dimensions maximum de 120 cm.

Tous sont équipés de guides tubulaires ou pleins pour obtenir une coupe plus précise et professionnelle, et présentés dans une poche en nylon pour faciliter le transport.



1

Única guía maciza de acero para una mejor visión de rayado y corte.

*One solid steel guide for better view of the scrapping and cutting process.*

Un guide solide en acier pour une meilleure vue du marquage et une meilleure coupe.

2

Rodamientos ajustables para un corte más preciso.

*Adjustable bearings for accurate cutting.*

Roulements ajustables pour une meilleure coupe.

3

Tope lateral para realizar cortes repetitivos rectos y a 45°.

*Side stop for repetitive straight and 45° cutting.*

Câle latérale pour faire des coupes droites et à 45° répétitives.

4

Conjunto de escuadra giratoria con escala métrica y sistema de medición angular para cortes rectos de 0° a 45°.

*Swivel square set with metric scale and angular measuring system for 0° to 45° straight cutting.*

Système d'équerre rotative avec une graduation métrique pour des coupes de 0° à 45°.

5

Base de aluminio con soportes laterales para un mejor apoyo de cerámicas de gran tamaño.

*Aluminium base with movable large extension pads to stand larger ceramic sizes.*

Base en aluminium avec des supports latéraux pour un meilleur appui de céramiques de grandes dimensions.

6

Base con efecto amortiguante para lograr cortes con máxima precisión.

*Cushion effect base to get highest accuracy cuts.*

Base avec effet amortisseur pour obtenir des coupes de grande précision.

7

Mango ergonómico para un fácil agarre y un uso confortable.

*Ergonomic handle for easy gripping and comfortable use.*

Manche ergonomique pour une meilleure prise et un usage facile.

8

Diseñado para realizar cortes rectos y angulares de cerámicas hasta 120 cm.

*Designed for straight and angular ceramic cutting up to 120cm.*

Conçus pour réaliser des coupes droites ou angulaires de céramiques de 120 cm.

**CORTAAZULEJOS MANUALES / HAND TILE CUTTERS / COUPE CARREAUX MANUELS / MANUELLER KACHELSCHNEIDER / TAGLIAPIASTRELLE / CORTA AZULEIJOS MANUAIS / РУЧНОЙ ПЛИТКОРЕЗ**

**CLASSIC**

| COD.         |  |  |  |  |  |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>63922</b> | 40                                                                                | 4-12                                                                              | ●                                                                                 | 4,0                                                                               | 63943 (Ø 22 x 6 x 2 mm)                                                            |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Guías tubulares de acero cromadas y rectificadas / Rectified and chromed steel tubular guides / Guides rectifiés en acier chromé

Con separador móvil / Adjustable breaking system / Avec séparateur mobile

Base con efecto amortiguante / Base with cushion effect / Base avec effet amortisseur

Visión directa de rayado y corte / Direct view of scrapping and cutting process / Vue directe du marquage et du processus de coupe

Tope lateral para realizar cortes repetitivos rectos y a 45° / Side limit for repetitive straight and 45° cuts / Câte latérale pour des coupes droites répétitives et des coupes à 45°

Cuchilla de carburo de tungsteno (WIDIA) / Tungsten carbide cutting wheel (WIDIA) / Lame en carbure de tungstène (WIDIA)



| COD.         |  |  |  |  |  |  |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>63924</b> | 40                                                                                | 4-12                                                                              | 30-80                                                                             | ●                                                                                 | 5,0                                                                               | 63943 (Ø 22 x 6 x 2 mm)                                                            |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Guías tubulares de acero cromadas y rectificadas / Rectified and chromed steel tubular guides / Guides rectifiés en acier chromé

Con separador móvil / Adjustable breaking system / Avec séparateur mobile

Base con efecto amortiguante / Base with cushion effect / Base avec effet amortisseur

Visión directa de rayado y corte / Direct view of scrapping and cutting process / Vue directe du marquage et du processus de coupe

Cuchilla de carburo de tungsteno (WIDIA) / Tungsten carbide cutting wheel (WIDIA) / Lame en carbure de tungstène (WIDIA)






Tope lateral para realizar cortes repetitivos rectos / Side limit for repetitive straight cuts / Câte latérale pour des coupes droites répétitives

Sistema de medición angular para cortes rectos de 0 a 45° / Angular measuring system for 0 to 45° straight cutting / Système de mesure angulaire pour des coupes droites de 0° à 45°

Taladro para cortes circulares / Drill hole for circular cutting / Mèche pour des coupes circulaires



**MASTER**

| COD.         |  |  |  |  |  |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>63934</b> | 60                                                                                  |                                                                                     |                                                                                     | 14                                                                                  |                                                                                      |
| <b>63936</b> | 80                                                                                  |                                                                                     |                                                                                     | 16                                                                                  |                                                                                      |
| <b>63937</b> | 90                                                                                  | ≤ 16                                                                                | ●                                                                                   | 17                                                                                  | 63947 (Ø 20 x 14 x 6 mm)                                                             |
| <b>63938</b> | 100                                                                                 |                                                                                     |                                                                                     | 18                                                                                  |                                                                                      |
| <b>63939</b> | 120                                                                                 |                                                                                     |                                                                                     | 20                                                                                  |                                                                                      |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Con separador móvil / Adjustable breaking system / Avec séparateur mobile

Base con efecto amortiguante / Base with cushion effect / Base avec effet amortisseur

Visión directa de rayado y corte / Direct view of scrapping and cutting process / Vue directe du marquage et du processus de coupe

Tope lateral para realizar cortes repetitivos rectos y a 45° / Side limit for repetitive straight and 45° cuts / Câte latérale pour des coupes droites répétitives et des coupes à 45°

Guía maciza de acero cromada y rectificada / Rectified and chromed steel solid guides / Guide robuste en acier chromé et rectifié

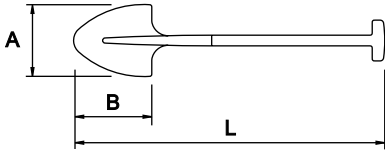
Conjunto de escuadra giratoria con escala métrica y sistema de medición angular para cortes rectos de 0 a 45° / Swivel square set with metric scale and angular measuring system for 0 to 45° straight cutting / Système d'équerre giratoire avec graduation métrique et système de mesure d'angle pour des coupes droites de 0° à 45°

Base de aluminio con soportes laterales móviles para un mejor apoyo de azulejos de gran tamaño / Aluminum base with movable large extension pads for support of the larger tile sizes / Base aluminum avec des support latéraux pour un meilleur appui des céramiques de grande dimension

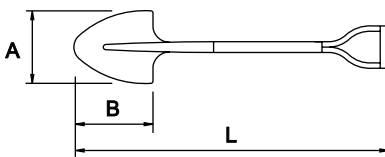
Cuchilla de carburo de tungsteno (WIDIA) recubierta de nitruro de titanio (TiN) / Titanio (TiN) coated tungsten carbide (WIDIA) cutting wheel / Lame en carbure de tungstène (WIDIA) recouverte de nitrure de titane (TiN)



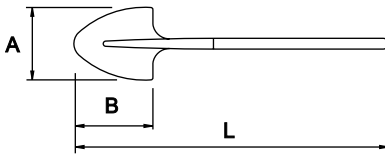
■ PALAS / SHOVELS / PELLES / SCHAUFELN / PALE / PAS / ЛОПАТКОУЛАВЛИВАТЕЛИ



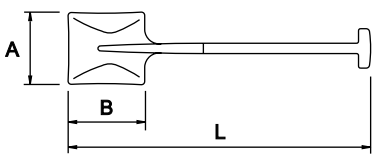
| COD.  | L (mm) | A (mm) | B (mm) | Kg  | Icon |
|-------|--------|--------|--------|-----|------|
| 67185 | 1030   | 265    | 325    | 1,9 | 6    |
| 67186 |        | 285    | 335    |     |      |



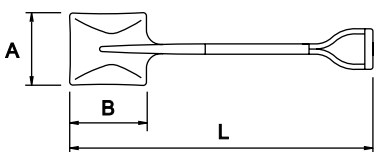
| COD.  | L (mm) | A (mm) | B (mm) | Kg  | Icon |
|-------|--------|--------|--------|-----|------|
| 67187 | 1020   | 265    | 325    | 1,9 | 6    |
| 67188 |        | 285    | 335    |     |      |



| COD.  | L (mm) | A (mm) | B (mm) | Kg  | Icon |
|-------|--------|--------|--------|-----|------|
| 67189 | 1400   | 265    | 325    | 1,9 | 6    |

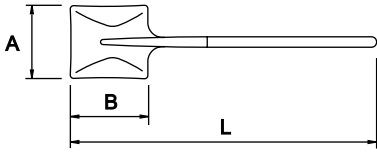


| COD.  | L (mm) | A (mm) | B (mm) | Kg  | Icon |
|-------|--------|--------|--------|-----|------|
| 67196 | 1020   | 250    | 325    | 1,8 | 6    |
| 67197 |        | 265    | 340    | 1,9 |      |

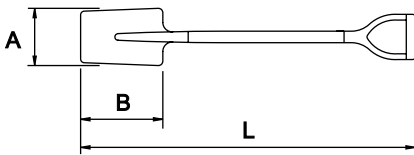


| COD.  | L (mm) | A (mm) | B (mm) | Kg  | Icon |
|-------|--------|--------|--------|-----|------|
| 67198 | 1020   | 250    | 325    | 2,1 | 6    |
| 67199 |        | 265    | 340    |     |      |





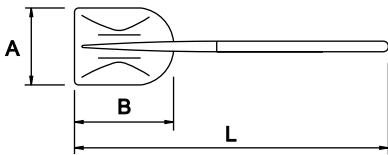
| COD.         | L (mm) | A (mm) | B (mm) | Kg  |   |
|--------------|--------|--------|--------|-----|---|
| <b>67200</b> | 1400   | 250    | 325    | 2,0 | 6 |



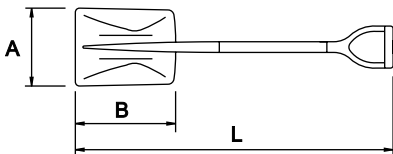
| COD.         | L (mm) | A (mm) | B (mm) | Kg  |   |
|--------------|--------|--------|--------|-----|---|
| <b>67216</b> | 955    | 160    | 260    | 1,7 | 6 |



#### ALUMINIO / ALUMINIUM / ALUMINIUM / ALUMINIUM / ALLUMINIO / ALUMÍNIO / АЛЮМИНИЙ



| COD.         | L (mm) | A (mm) | B (mm) | Kg  |   |
|--------------|--------|--------|--------|-----|---|
| <b>67209</b> | 1620   | 345    | 390    | 1,6 | 6 |



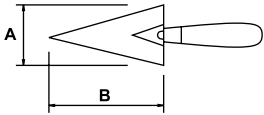
| COD.         | L (mm) | A (mm) | B (mm) | Kg  |   |
|--------------|--------|--------|--------|-----|---|
| <b>67212</b> | 990    | 260    | 305    | 0,9 | 6 |



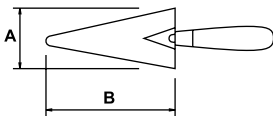
■ PALETAS / BRICKLAYERS / TRUELLES ET COUTEAUX / MAURERKELLEN / CAZZUOLE / COLHERES / МАСТЕРКИ

■ HOJA DE ACERO ESPECIAL, PULIDA Y TEMPLADA. MANGO BARNIZADO / ALLOY STEEL BLADE, POLISHED AND HARDENED. VARNISHED HANDLE / ACIER SPECIAL DOUBLEMENT POLI ET TREMPE. MANCHE VERNIE / KLINGE AUS SPEZIALSTAHL, PLANGESCHLIFFEN. POLIERT UND GEHÄRTET / ACCIAIO SPECIALE LAMA PULITA IMPUGNATURA VERNICIATA / FOLHA DE AÇO ESPECIAL POLIDA E TEMPERADA. CABO ENVERNIZADO / ПЛАСТИНА ИЗ СТАЛЬНОГО СПЛАВА, ДВОЙНАЯ ПОЛИРОВКА И ЗАКАЛКА, ЛАКИРОВАННАЯ РУКОЯТКА

■ STANDARD



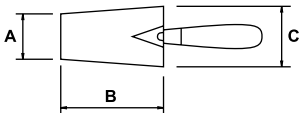
| COD.  | A (mm) | B (mm) |     |   |   |
|-------|--------|--------|-----|---|---|
| 67000 | 50     | 105    | 120 | 6 | ● |
| 67001 | 70     | 130    | 135 |   |   |



| COD.  | A (mm) | B (mm) |     |   |   |
|-------|--------|--------|-----|---|---|
| 67002 | 70     | 130    | 135 | 6 | ● |



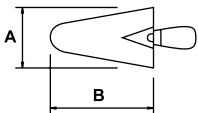
■ MOD. NORTE / MOD. NORTH / MOD. NORD / MOD. NORDEN / MOD. NORD / MOD. NORTE / МАСТЕРОК МОДЕЛЬ "СЕВЕР"



| COD.  | A (mm) | B (mm) | C (mm) |     |   |   |
|-------|--------|--------|--------|-----|---|---|
| 67004 | 87     | 180    | 115    | 340 | 6 | ● |

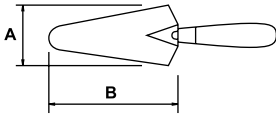





■ MOD. CATALÁN / MOD. CATALAN / MOD. CATALAN / MOD. CATALAN / MOD. CATALANO / MOD. CATALÃO / МАСТЕРОК МОДЕЛЬ "КАТАЛАНСКИЙ"

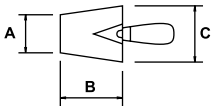





| COD.  | A (mm) | B (mm) |     |   |   |
|-------|--------|--------|-----|---|---|
| 67006 | 115    | 160    | 310 | 6 | ● |
| 67005 | 122    | 170    | 320 |   |   |

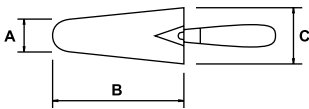





**MOD. MADRID / MOD. MADRID / MOD. MADRID / MOD. MADRID / MOD. MADRID / MOD. MADRID / МАСТЕРОК МОДЕЛЬ "МАДРИД"**


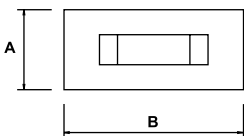
| COD.         | A (mm) | B (mm) |  |  |  |
|--------------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>67007</b> | 70     | 150    | 150                                                                               |                                                                                   |                                                                                     |
| <b>67008</b> | 85     | 165    | 175                                                                               | 6                                                                                 | •                                                                                   |
| <b>67010</b> | 105    | 200    | 245                                                                               |                                                                                   |                                                                                     |
| <b>67019</b> | 115    | 230    | 290                                                                               |                                                                                   |                                                                                     |



**MOD. ALICATADOR / MOD. TILER / MOD. CARREUR / MOD. FLIESENLEGER / MOD. GALIZIANO / MOD. LADRILHADOR / MOD. ALICATADOR**


| COD.         | A (mm) | B (mm) | C (mm) |  |  |  |
|--------------|--------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>67012</b> | 65     | 120    | 120    | 280                                                                               | 6                                                                                 | •                                                                                   |

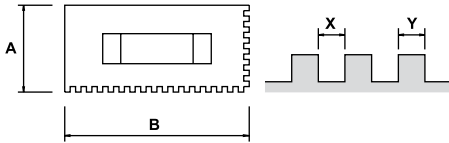

**MOD. PORTUGAL / MOD. PORTUGAL / MOD. PORTUGAL / MOD. PORTUGAL / MOD. PORTOGALLO / MOD. PORTUGAL / МАСТЕРОК МОДЕЛЬ "ПОРТУГАЛИЯ"**


| COD.         | A (mm) | B (mm) | C (mm) |  |  |  |
|--------------|--------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>67015</b> | 56     | 220    | 120    | 390                                                                                 |                                                                                     |                                                                                       |
| <b>67014</b> | 60     | 250    | 130    | 480                                                                                 | 6                                                                                   | •                                                                                     |


**LLANAS / TROWELS / TRUELLE / KELLEN / FRATTONI / TALOCHAS / ГЛАДИЛКА**


| COD.         | A (mm) | B (mm) |  |  |  |
|--------------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>67016</b> | 150    | 300    | 500                                                                                 | 5                                                                                   | •                                                                                     |

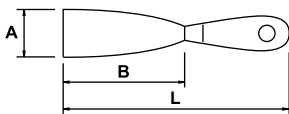




| COD.         | A (mm) | B (mm) |     |   |   |
|--------------|--------|--------|-----|---|---|
| <b>67018</b> | 150    | 300    | 500 | 5 | • |



## ■ ESPÁTULAS / SCRAPERS / SPATULE / SCHABER / SPATOLE / ESPÁTULAS / ШПАТЕЛЬ



| COD.         | L (mm) | A (mm) | B (mm) |    |    |   |
|--------------|--------|--------|--------|----|----|---|
| <b>67020</b> |        | 30     | 115    |    |    |   |
| <b>67021</b> | 230    | 40     | 120    | 65 |    |   |
| <b>67022</b> |        | 50     |        |    |    |   |
| <b>67023</b> | 240    | 60     | 125    | 75 | 12 | • |
| <b>67024</b> |        | 70     |        |    |    |   |
| <b>67025</b> | 245    | 80     | 135    | 85 |    |   |
| <b>67026</b> |        | 90     |        |    |    |   |
| <b>67027</b> | 255    | 100    | 140    | 90 |    |   |



## ■ KIT 64 PCS.

| COD.         | PCS. |
|--------------|------|
| <b>67029</b> | 64   |

| PCS. | COD. PCS. |
|------|-----------|
| 8    | 67020     |
|      | 67021     |
|      | 67022     |
|      | 67023     |
|      | 67024     |
|      | 67025     |
|      | 67026     |
|      | 67027     |



## ■ PALANCA BOCA CURVA / PRY BAR / PINCE À TALON COURBE / BRECHSTANGE, GESCHLOSSER / LEVA UNGHIA CHIUSA / ALAVANCA BOCA CURVA / КРЮК

| COD.         | L (inch) | L (mm) |     |   |
|--------------|----------|--------|-----|---|
| <b>67202</b> | 6        | 150    | 0,1 |   |
| <b>67203</b> | 12       | 300    | 0,2 |   |
| <b>67204</b> | 16       | 405    | 0,5 | 6 |
| <b>67205</b> | 20       | 490    | 0,8 |   |





## ■ KIT 4 PCS.

| COD.         | PCS. |     |   |
|--------------|------|-----|---|
| <b>67206</b> | 4    | 1,6 | 1 |


Composición / Composition / Composition  
67202, 67203, 67204, 67205



**■ PALANCA DE ENCOFRADOR / WRECKING BAR / PINCE À DECOFFRER / NAGELEISEN / LEVERINO CARPENTIERE / ALAVANCAS DE ENCOFRADOR / МОНТИРОВКА**

| COD.  | L (inch) |  mm |  g |
|-------|----------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 63261 | 12       | 14                                                                                   | 250                                                                                 |
| 63262 | 18       | 16                                                                                   | 700                                                                                 |
| 63263 | 24       | 18                                                                                   | 1400                                                                                |
| 63264 | 30       | 18                                                                                   | 2000                                                                                |
| 63265 | 36       | 18                                                                                   | 2400                                                                                |
| 63266 | 42       | 19                                                                                   | 2750                                                                                |
| 63267 | 48       | 19                                                                                   | 3100                                                                                |


**■ PERFORADORAS / DRILLS / CAROTTEUSE À BETON / BOHRGERÄTE / PERFORATORE / PERFURADORAS / КОРОНКИ**
**■ PERFORMATIC - 102**

| COD.  | CAP. Ø | W    | V                    | CONEX.                  | R.P.M.   |  Kg |
|-------|--------|------|----------------------|-------------------------|----------|----------------------------------------------------------------------------------------|
| 60228 | 12-102 | 1500 | 220-240 V (50-60 Hz) | 1/2" BSP - 1.1/4" UNC * | 950-2100 | 22                                                                                     |
| 60229 |        |      | 110-130 V (50-60 Hz) |                         |          |                                                                                        |





CE | 12M | \*: 1/2" Hembra - 1.1/4" Macho / 1/2" Female - 1.1/4" Male / 1/2" Femelle - 1.1/4" Male

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

SSR: Sistema de arranque suave / SSR: Soft start system / SSR: Système doux de démarrage

PRCD: Incluido (para evitar picos de tensión) / PRCD: Included (to avoid voltage picks) / PRCD: Inclue ( pour éviter des pics de tension)


**■ PERFORMATIC - 205**

| COD.  | CAP. Ø | W    | V                    | CONEX.                  | R.P.M. |  |  |  |  Kg |
|-------|--------|------|----------------------|-------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 60230 | 12-205 | 2400 | 220-240 V / 50-60 Hz | 1/2" BSP - 1.1/4" UNC * | 600    | ●                                                                                   | -                                                                                   | -                                                                                    | 41                                                                                       |
| 60231 |        |      |                      |                         |        | -                                                                                   | ●                                                                                   | -                                                                                    |                                                                                          |
| 60232 |        |      |                      |                         |        | -                                                                                   | -                                                                                   | ●                                                                                    |                                                                                          |
| 60233 | 12-205 | 2400 | 110-130 V / 50-60 Hz | 1/2" BSP - 1.1/4" UNC * | 600    | -                                                                                   | ●                                                                                   | -                                                                                    |                                                                                          |
| 60234 |        |      |                      |                         |        | ●                                                                                   | -                                                                                   | -                                                                                    |                                                                                          |
| 60235 |        |      |                      |                         |        | -                                                                                   | ●                                                                                   | -                                                                                    |                                                                                          |
| 60236 |        |      |                      |                         |        | ●                                                                                   | -                                                                                   | ●                                                                                    |                                                                                          |
| 60237 | -      | -    | -                    | -                       | -      | -                                                                                   | ●                                                                                   | -                                                                                    |                                                                                          |

CE | 12M | \*: 1/2" Hembra - 1.1/4" Macho / 1/2" Female - 1.1/4" Male / 1/2" Femelle - 1.1/4" Male

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

PRCD: Incluido (para evitar picos de tensión) / PRCD: Included (to avoid voltage picks) / PRCD: Inclue ( pour éviter des pics de tension)



Soporte fijo / Fixed bracket / Support fixe



Soporte redinable 90° / 90° reclinable bracket / Support inclinable 90°







Ventosa / Vacuum base / Ventouse

12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

Si no encuentra el artículo que necesita, consúltenos en [consulta@egamaster.com](mailto:consulta@egamaster.com) o en [www.egamaster.com](http://www.egamaster.com)  
 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
 Si vous ne trouvez pas l'article que vous desirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)

**PERFOMATIC - 255**





| COD.  | CAP. Ø | W    | V                    | CONEX.                  | R.P.M.  |  |  |  |  |
|-------|--------|------|----------------------|-------------------------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 60239 |        |      |                      |                         |         |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
| 60240 |        |      | 220-240 V / 50-60 Hz |                         |         | -                                                                                 | -                                                                                 |                                                                                    |                                                                                     |
| 60241 |        |      |                      |                         |         |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
| 60242 | 12-255 | 2600 |                      | 1/2" BSP - 1.1/4" UNC * | 460-900 | •                                                                                 | -                                                                                 |                                                                                    | 45                                                                                  |
| 60243 |        |      | 110-130 V / 50-60 Hz |                         |         | -                                                                                 | -                                                                                 |                                                                                    |                                                                                     |
| 60244 |        |      |                      |                         |         | •                                                                                 | -                                                                                 |                                                                                    |                                                                                     |
| 60245 |        |      |                      |                         |         | -                                                                                 | •                                                                                 |                                                                                    |                                                                                     |

CE | 12M | \*: 1/2" Hembra - 1.1/4" Macho / 1/2" Female - 1.1/4" Male / 1/2" Femelle - 1.1/4" Male

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

PRCD: Incluido (para evitar picos de tensión) / PRCD: Included (to avoid voltage picks) / PRCD: Inclue ( pour éviter des pics de tension)


**PERFOMATIC - 300**

| COD.  | CAP. Ø | W    | V                    | CONEX.                  | R.P.M.  |  |  |  |  |
|-------|--------|------|----------------------|-------------------------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 60246 |        |      |                      |                         |         | •                                                                                 | -                                                                                 |                                                                                    |                                                                                     |
| 60247 |        |      | 220-240 V / 50-60 Hz |                         |         | -                                                                                 | •                                                                                 |                                                                                    |                                                                                     |
| 60248 |        |      |                      |                         |         | •                                                                                 | -                                                                                 |                                                                                    |                                                                                     |
| 60249 | 12-300 | 3300 |                      | 1/2" BSP - 1.1/4" UNC * | 460-900 | -                                                                                 | •                                                                                 |                                                                                    | 50                                                                                  |
| 60250 |        |      | 110-130 V / 50-60 Hz |                         |         | •                                                                                 | -                                                                                 |                                                                                    |                                                                                     |
| 60251 |        |      |                      |                         |         | -                                                                                 | •                                                                                 |                                                                                    |                                                                                     |
| 60252 |        |      |                      |                         |         | •                                                                                 | -                                                                                 |                                                                                    |                                                                                     |
| 60253 |        |      |                      |                         |         | -                                                                                 | •                                                                                 |                                                                                    |                                                                                     |

CE | 12M | \*: 1/2" Hembra - 1.1/4" Macho / 1/2" Female - 1.1/4" Male / 1/2" Femelle - 1.1/4" Male

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

PRCD: Incluido (para evitar picos de tensión) / PRCD: Included (to avoid voltage picks) / PRCD: Inclue ( pour éviter des pics de tension)



Soporte fijo / Fixed bracket / Support fixe




Soporte redinable 90° / 90° reclining bracket / Support inclinable 90°




Ventosa / Vacuum base / Ventouse

**BROCA DE HORMIGÓN, SEGMENTOS DE DIAMANTE SINTERIZADOS / SINTERED DIAMOND DRILLS FOR REINFORCED CONCRETE DRILLS / COURONNES AVEC INTEGRATION DES SEGMENTS DIAMANTES POUR LE FORAGE DE BETONS ARMES / DIAMANT-BOHRKRONEN FÜR STAHL UND BETON / CORONA PER CEMENTO ARMATO, PUNTA DIAMANTATA SINTERIZZATA / BROCA PARA CIMENTO ARMADO, SEGMENTOS DE DIAMANTE SINTERIZADOS / АЛМАЗНЫЕ КОРОНКИ ДЛЯ СВЕРЛЕНИЯ ЖЕЛЕЗОБЕТОНА**

**PARA CORTE HÚMEDO / FOR WET CUT / FORAGE À L'EAU / ZUM NASSBOHREN / PER TAGLIO AD ACQUA / PARA CORTE HUMIDO / ДЛЯ МОКРОГО СВЕРЛЕНИЯ**


| COD.  |  O.D.<br>mm | L (mm) | CONEX.                                                           |
|-------|----------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------|
| 64366 | 32                                                                                           | 360    |                                                                  |
| 64367 | 44                                                                                           |        |                                                                  |
| 64368 | 53                                                                                           |        |                                                                  |
| 64369 | 63                                                                                           |        |                                                                  |
| 64370 | 71                                                                                           |        |                                                                  |
| 64371 | 83                                                                                           |        |                                                                  |
| 64372 | 89                                                                                           |        |                                                                  |
| 64373 | 102                                                                                          |        |                                                                  |
| 64375 | 120                                                                                          |        |                                                                  |
| 64376 | 127                                                                                          |        |                                                                  |
| 64377 | 132                                                                                          |        |                                                                  |
| 64378 | 150                                                                                          |        |                                                                  |
| 64379 | 159                                                                                          |        |                                                                  |
| 64380 | 166                                                                                          |        |                                                                  |
| 64381 | 180                                                                                          |        |                                                                  |
| 64382 | 202                                                                                          |        |                                                                  |
| 64383 | 220                                                                                          |        |                                                                  |
| 64384 | 244                                                                                          |        |                                                                  |
| 64385 | 300                                                                                          | 450    | 1.1/4" UNC - Hembra / 1.1/4" UNC - Female / 1.1/4" UNC - Femelle |
| 57100 | 32                                                                                           |        |                                                                  |
| 57101 | 44                                                                                           |        |                                                                  |
| 57102 | 53                                                                                           |        |                                                                  |
| 57103 | 63                                                                                           |        |                                                                  |
| 57104 | 71                                                                                           |        |                                                                  |
| 57105 | 83                                                                                           |        |                                                                  |
| 57106 | 89                                                                                           |        |                                                                  |
| 57107 | 102                                                                                          |        |                                                                  |
| 57108 | 110                                                                                          |        |                                                                  |
| 57109 | 120                                                                                          |        |                                                                  |
| 57110 | 127                                                                                          |        |                                                                  |
| 57111 | 132                                                                                          |        |                                                                  |
| 57112 | 150                                                                                          |        |                                                                  |
| 57113 | 159                                                                                          |        |                                                                  |
| 57114 | 166                                                                                          |        |                                                                  |
| 57115 | 180                                                                                          |        |                                                                  |
| 57116 | 202                                                                                          |        |                                                                  |
| 57117 | 220                                                                                          |        |                                                                  |
| 57118 | 244                                                                                          |        |                                                                  |
| 57119 | 300                                                                                          |        |                                                                  |



| COD.  |  O.D.<br>mm | L (mm) | CONEX.                                               |
|-------|------------------------------------------------------------------------------------------------|--------|------------------------------------------------------|
| 64355 | 12                                                                                             | 120    | 1/2" BSP - Macho / 1/2" BSP - Male / 1/2" BSP - Male |
| 64356 | 18                                                                                             | 220    |                                                      |
| 64357 | 26                                                                                             |        |                                                      |
| 64358 | 32                                                                                             |        |                                                      |
| 64359 | 44                                                                                             |        |                                                      |
| 64360 | 53                                                                                             |        |                                                      |
| 64361 | 63                                                                                             | 320    |                                                      |
| 64362 | 71                                                                                             |        |                                                      |
| 64363 | 83                                                                                             |        |                                                      |
| 64364 | 89                                                                                             |        |                                                      |
| 64365 | 102                                                                                            |        |                                                      |



**PARA CORTE SECO / FOR DRY CUT / FORAGE À SEC / ZUM TROCKENBOHREN / PER TAGLIO ASCIUTO / PARA CORTE SECO / ДЛЯ СУХОГО СВЕРЛЕНИЯ**

| COD.  |  O.D.<br>mm | L (mm) | CONEX.                                               |
|-------|----------------------------------------------------------------------------------------------|--------|------------------------------------------------------|
| 64386 | 32                                                                                           |        |                                                      |
| 64387 | 44                                                                                           |        |                                                      |
| 64388 | 53                                                                                           |        |                                                      |
| 64389 | 63                                                                                           |        |                                                      |
| 64390 | 71                                                                                           |        |                                                      |
| 64392 | 89                                                                                           | 300    | 1/2" BSP - Macho / 1/2" BSP - Male / 1/2" BSP - Male |
| 64393 | 102                                                                                          |        |                                                      |
| 64394 | 110                                                                                          |        |                                                      |
| 64395 | 120                                                                                          |        |                                                      |
| 64396 | 132                                                                                          |        |                                                      |
| 64397 | 150                                                                                          |        |                                                      |



**SOPORTE FIJO / FIXED BRACKET / SUPPORT FIXE / STÄNDER / SUPPORTO FISSO / SUPORTE FIXO / СТАНИНА ДЛЯ СВЕРЛЕНИЯ**

| COD.  | Para máquinas / For machines / Pour machines     |  Kg |
|-------|--------------------------------------------------|---------------------------------------------------------------------------------------|
| 64398 | PERFOMATIC-205 / PERFOMATIC-255 / PERFOMATIC-300 | 22                                                                                    |


**SOPORTE RECLINABLE 90° / 90° RECLINABLE BRACKET / SUPPORT INCLINABLE 90° / STÄNDER 90° SCHWENKBAR / SUPPORTO INCLINABILE 90° / SUPORTE INCLINAVEL 90° / СТАНИНА ДЛЯ СВЕРЛЕНИЯ ПОД УГЛОМ**

| COD.  | Para máquinas / For machines / Pour machines     |  Kg |
|-------|--------------------------------------------------|-----------------------------------------------------------------------------------------|
| 64399 | PERFOMATIC-205 / PERFOMATIC-255 / PERFOMATIC-300 | 35                                                                                      |


**VENTOSA / VACUUM BASE / VENTOUSE / VAKUUM SOCKEL / VENTOSA / VENTOSA / ВАКУУМНАЯ ПЛИТА**
**KIT VENTOSA + BOMBA / KIT VACUUM BASE + PUMP / KIT VENTOUSE + POMPE / SATZ VAKUUM SOCKEL + PUMPE / KIT VENTOSA + POMPA / KIT VENTOSA + BOMBA / ВАКУУМНАЯ ПЛИТА В КОМПЛЕКТЕ С ВАКУУМНЫМ НАСОСОМ**

| COD.  | Para máquinas / For machines / Pour machines                      |  Kg |
|-------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 64400 | PERFOMATIC-102 / PERFOMATIC-205 / PERFOMATIC-255 / PERFOMATIC-300 | 6,5                                                                                      |
| PCS.  | Composición / Composition / Composition                           | Descripción / Description / Description                                                  |
| 1     | 64409                                                             | VENTOSA / VACUUM BASE                                                                    |
|       | 64410                                                             | BOMBA / PUMP                                                                             |



**VENTOSA / VACUUM BASE / VENTOUSE / VAKUUM SOCKEL / VENTOSA / VENTOSA / ВАКУУМНАЯ ПЛИТА**

COD.



**64409**
**BOMBA / PUMP / POMPE / PUMPE / POMPA / BOMBA / ВАКУУМНЫЙ НАСОС**

COD.

**64410**

12M


**EXTENSIÓN / EXTENSION / EXTENSION / VERLÄNGERUNG / ESTENSORE / EXTENÇÃO / УДЛИНИТЕЛЬ**

| COD.         | CONEX.     |  O.D.<br>mm | L (mm) | Para máquinas / For machines / Pour machines                      |  Kg |
|--------------|------------|----------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>64406</b> | 1.1/4" UNC | 40                                                                                           | 150    | PERFOMATIC-102 / PERFOMATIC-205 / PERFOMATIC-255 / PERFOMATIC-300 | 1,0                                                                                    |
| <b>64407</b> |            |                                                                                              | 210    |                                                                   | 1,3                                                                                    |
| <b>64414</b> | 1/2" BSP   | 30                                                                                           | 200    |                                                                   | 0,8                                                                                    |


**MANGO / HANDLE / MANCHE / GRIFF / MANICO / PUNHO / РУКОЯТКА**


| COD.         | Para máquinas / For machines / Pour machines |  Kg |
|--------------|----------------------------------------------|--------------------------------------------------------------------------------------|
| <b>64408</b> | PERFOMATIC-102                               | 0,7                                                                                  |


**CONECTOR ADAPTADOR ROSCA / THREAD CONNECTION ADAPTOR / CONNECTEUR ADAPTATEUR DE FILETAGE / ADAPTOR VERBINDUNGSADAPTER FUR GEWINDE / ADATTATORE CONNETTORE FILETTATO / ADAPTADOR DE ROSCA / РЕЗЬБОВОЙ ПЕРЕХОДНИК**

| COD.         | CONEX.                                                                                                                        |  Kg |
|--------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>64426</b> | 1.1/4" UNC (hembra) - 1/2" BSP (hembra) / 1.1/4" UNC (female) - 1/2" BSP (female) / 1.1/4" UNC (femelle) - 1/2" BSP (femelle) | 0,4                                                                                    |


**12M** GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ


**MÁQUINAS DE CORTE / CUTTING MACHINES / MACHINES DE COUPE / SCHNEIDMASCHINEN / MACCHINE DA TAGLIO / MACCHINA TAGLIATRICE / МАШИНЫ ДЛЯ РУБКИ АРМАТУРЫ**
**CORTAVARILLAS ELECTROHIDRÁULICO / ELECTROHYDRAULIC REBAR CUTTERS / COUPE BOULON ELECTRO-HYDRAULIQUE / ELEKTRO-HYDRAULISCHER STAHLDRAHTSCHNEIDER / TAGLIABULLONI ELETTRICO / TESOURA CORTA VARÃO ELECTRO HIDRAULICA / ЭЛЕКТРОГИДРАВЛИЧЕСКИЕ РУБЩИКИ АРМАТУРЫ**
**REBARMATIC - 22**
**ANTES / BEFORE / AVANT      DESPUÉS / AFTER / APRÈS**


| COD.         | V                  | CAP. (mm) | W   | Kg |  |
|--------------|--------------------|-----------|-----|----|------------------------------------------------------------------------------------|
| <b>60271</b> | 220-240V (50-60Hz) | Ø4- Ø22   | 850 | 12 | 64178                                                                              |
| <b>60273</b> | 110-130V (50-60Hz) |           |     |    |                                                                                    |

**CE | 12M**
**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                               |             |
|-------------------------------------------------------------------------------|-------------|
| Capacidad (mm) / Capacity (mm) / Capacité (mm)                                | 4-22        |
| Velocidad de corte / Cutting speed / Vitesse de coupe                         | 3 sg (22mm) |
| Sistema electrohídrico / Electrohydraulic system / Système electrohydraulique | ●           |
| Tamaño estuche (mm) / Case dimensions (mm) / Dimension de l'étui (mm)         | 420x130x150 |
| Estuche metálico / Metallic case / Étui métallique                            | ●           |



**SIERRA PARA LADRILLOS CON MESA / BENCH BRICKS CUT-OFF MACHINE / SCIE À BRIQUES AVEC TABLE / TISCHKREISSÄGE FÜR BACKSTEIN / MACCHINA DA TAGLIO CON BANCO / SERRA PARA CORTAR MOSAICOS CON MESA / НАСТОЛЬНАЯ ПИЛА ДЛЯ КИРПИЧА**

| COD.         |  | CAP. (mm)       | V                  | W    | R.P.M. | Kg |
|--------------|-------------------------------------------------------------------------------------|-----------------|--------------------|------|--------|----|
| <b>60257</b> | 355                                                                                 | 255 x 406 x 127 | 110-130V (50-60Hz) | 1650 | 3500   | 21 |

**CE | 12M**
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Refrigerada por agua / Water-Cooled / Refroidiseur d'eau


**SIERRA PARA LADRILLOS / BRICKS CUT-OFF SAW / SCIE À BRIQUES / KREISSÄGE FÜR BACKSTEIN / MACCHINA DA TAGLIO / SERRA PARA CORTAR MOSAICOS / ПИЛА ДЛЯ ОТРЕЗКИ КИРПИЧЕЙ**

| COD.         |  | CAP. (mm)       | V                  | W    | R.P.M. | Kg |
|--------------|-------------------------------------------------------------------------------------|-----------------|--------------------|------|--------|----|
| <b>60258</b> | 355                                                                                 | 255 x 406 x 127 | 220-240V (50-60Hz) | 1650 | 3500   | 11 |
| <b>60259</b> |                                                                                     |                 | 110-130V (50-60Hz) |      |        |    |

**CE | 12M**
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Refrigerada por agua / Water-Cooled / Refroidiseur d'eau


**12M** GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

28

**MEDICIÓN Y DETECCIÓN**  
**MEASURING AND DETECTION**  
**MESURE ET DÉTECTION**  
**MESSTECHNIK UND DETEKTION**  
**MISURAZIONE E RILEVAMENTO**  
**MEDIÇÃO E DETECÇÃO**  
**ИЗМЕРЕНИЕ И ОПРЕДЕЛЕНИЕ**



1

**BIMAT**\*

Carcasa Bimaterial ABS + Elastómero resistente al choque y a la abrasión.

*ABS + Elastomer antishock and antiabrasion bimaterial case.*

Boîtier bimatière ABS + élastomère résistant aux chocs et à l'abrasion.

2

Sistema de bloqueo automático con rodillos. Desbloqueo mediante pulsación.

*Automatic locking system with rollers. Unlock by pressing.*

Système de verrouillage automatique à galets. Déverrouiller en appuyant.

**2 STOPS**\*

Doble acción de bloqueo y freno para la máxima comodidad de utilización y seguridad.

*Double action safety blocking and braking for maximum comfort.*

Système double-action de freinage et de blocage pour un meilleur confort d'utilisation.

3

Muelle de retorno extrafuerte con sistema de cambio de cinta RapidChange.

*ExtraResistant returning spring equipped with Rapid Change quick blade-replacing system.*

Ressort de rembobinage ultra-renforcé avec système de remplacement de ruban Ultra-rapide.

4

**NYLON**\*

Recubrimiento de nylon MASTER 15 veces más resistente a la abrasión y a la oxidación. Antiadherente y antireflectante.

*MASTER nylon coating, 15 times more resistant against abrasion and rust. Dirt anti-adherence and non-reflecting.*

Revêtement de nylon MASTER 15 fois plus résistant à l'abrasion et à l'oxydation. Anti-adhérente et anti-réfléchissante.

**URAR**\*

Recubrimiento 10 veces más resistente a la abrasión y a la oxidación. Antiadherente y antireflectante.

*10 times more resistant against abrasion and rust. Dirt anti-adherence and non-reflecting.*

Revêtement 10 fois plus résistant à l'abrasion et à l'oxydation. Anti-adhérente et anti-réfléchissante.

**INOX**\*

Cinta y todos los componentes metálicos de acero inoxidable para trabajos ambientales de máxima humedad.

*Tape and all metallic components made in Stainless Steel to work under the most humid environmental conditions.*

Ruban et tous composants métalliques en acier inoxydable pour travaux en environnements humides.

Graduación continua y de fácil visión para entornos lejanos o poco iluminados.

*Continuous and easy-reading scale for long distances or low light environments.*

Graduation continue et à visible à longue distance et avec peu de luminosité.

Cinta mate.  
*Matt tape.*  
Ruban mat.

Cintas de acero de 0,13 mm de espesor de la mayor calidad y resistencia a la flexión, recubiertas con las más avanzadas técnicas antireflexión, antiabrasión, antiadherencia y antioxidación.

*Bending resistant and highest quality 0,13 mm thickness steel blades, equipped with the most advanced techniques in antireflection, antiabrasion, antiadherence and antirust coating.*

Ruban en acero de 0,13 mm d'épaisseur première qualité de grande résistance, recouvert avec les meilleures techniques anti-réfléchissantes, anti-abrasion, anti-adhérence et anti-oxydation.



5

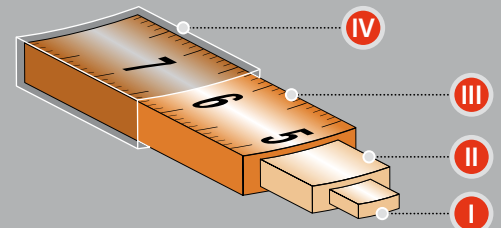
**MAGNET C**\*

Potente uña magnética.  
*Powerful Magnetic Hook.*  
Onglet magnétique puissant.

Uñas reforzadas antichoque en todos los modelos para los trabajos más exigentes.

*Antishock reinforced hooks for the toughest jobs.*

Crochets renforcés anti-chocs sur tous les modèles, pour les utilisations les plus exigeantes.



I

Hoja de acero templada: acero carbono o acero inoxidable.  
*Tempered steel spring blade: Carbon steel or Stainless steel.*  
Feuille d'acier tendre : acier-carbone ou acier inoxydable.

II

Pintura antiabrasiva: amarillo / plateado.  
*Anticorrosive painting: yellow / silver.*  
Peinture anti-corrosive : jaune / argent.

III

Estampación de graduación continua.  
*Continuous printed graduation.*  
Graduation continue pressée.

IV

Recubrimiento antiabrasivo transparente.  
*Anticorrosive transparent coating.*  
Revêtement anti-corrosion transparent.

\*

Características adicionales específicas en cada modelo.

*Additional specifications for each model.*

Caractéristiques additionnelles spécifiques à chaque modèle.



Precisión  
*Accuracy*  
Precision

Long. / Tolerancia  
*Length / Tolerance*  
Long. / Tolerance  
± mm

|                                | 1 m | 2m  | 3 m | 5 m | 8 m | 10 m | 20 m | 30 m | 50 m |
|--------------------------------|-----|-----|-----|-----|-----|------|------|------|------|
| <b>Class II = 0,3 + 0,2 L</b>  | 0,5 | 0,7 | 0,9 | 1,3 | 1,9 | 2,3  | 4,3  | 6,3  | 10,3 |
| <b>Class III = 0,6 + 0,4 L</b> | 1,0 | 1,4 | 1,8 | 2,6 | 3,8 | 4,6  | 8,6  | 12,6 | 20,6 |



■ **FLEXÓMETROS / MEASURING TAPES / MÈTRES À RUBAN / STAHLROLLBANDMASSE / FLESSOMETRI / FITAS METRICAS / РУЛЕТКИ**

■ **INOX**

| COD.         | L<br>m | mm | CLIP | Icon | mm | g   | Icon | Icon |
|--------------|--------|----|------|------|----|-----|------|------|
| <b>65163</b> | 5      | 19 | ●    | ●    | mm | 210 | 12   | ●    |

**INOX BMAT NYLON** | Class II



| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                                                                                          |  |  |  |  |  |  |  |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|-------|
| Acabado / Finishing / Finition                                                                                                                                    |  |  |  |  |  |  |  | MATT  |
| 15 veces más resistente a la abrasión y oxidación / 15 times more resistant against abrasion and rust / 15 fois plus résistant contre l'abrasion et la rouille    |  |  |  |  |  |  |  | NYLON |
| Todos los componentes metálicos de acero inoxidable / All metallic components made in Stainless Steel / Tous les composants métalliques faits en acier inoxydable |  |  |  |  |  |  |  | ●     |

| COD.         | L<br>m/ft | mm | CLIP | Icon | mm/inch | g   | Icon | Icon |
|--------------|-----------|----|------|------|---------|-----|------|------|
| <b>65355</b> | 3/10      | 16 | ●    | ●    | mm/inch | 110 | 12   | ●    |
| <b>65356</b> | 5/16      | 19 | ●    | ●    | mm/inch | 210 | 12   | ●    |

**INOX BMAT NYLON** | Class II

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                                                                                          |  |  |  |  |  |  |  |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|-------|
| Acabado / Finishing / Finition                                                                                                                                    |  |  |  |  |  |  |  | MATT  |
| 15 veces más resistente a la abrasión y oxidación / 15 times more resistant against abrasion and rust / 15 fois plus résistant contre l'abrasion et la rouille    |  |  |  |  |  |  |  | NYLON |
| Todos los componentes metálicos de acero inoxidable / All metallic components made in Stainless Steel / Tous les composants métalliques faits en acier inoxydable |  |  |  |  |  |  |  | ●     |

■ **ROBUST II**

| COD.         | L<br>m | mm | CLIP | Icon | mm | g   | Icon | Icon |
|--------------|--------|----|------|------|----|-----|------|------|
| <b>65164</b> | 3      | 19 | ●    | ●    | 2  | 2,8 | 110  | 15   |
| <b>65165</b> | 5      | 25 | ●    | ●    | mm | 2,4 | 3,7  | 225  |
| <b>65166</b> | 8      |    | ●    | ●    |    |     | 420  | 12   |

**BMAT NYLON** | Class II



| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                                                                                       |  |  |  |  |  |  |  |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|-------|
| Acabado / Finishing / Finition                                                                                                                                 |  |  |  |  |  |  |  | MATT  |
| 15 veces más resistente a la abrasión y oxidación / 15 times more resistant against abrasion and rust / 15 fois plus résistant contre l'abrasion et la rouille |  |  |  |  |  |  |  | NYLON |

| COD.         | L<br>m/ft | mm | CLIP | Icon | mm      | g   | Icon | Icon |
|--------------|-----------|----|------|------|---------|-----|------|------|
| <b>65357</b> | 3/10      | 19 | ●    | ●    | 2       | 2,8 | 110  | 15   |
| <b>65358</b> | 5/16      | 25 | ●    | ●    | mm/inch | 2,4 | 3,7  | 225  |
| <b>65359</b> | 8/26      |    | ●    | ●    |         |     | 420  | 12   |

**BMAT NYLON** | Class II

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                                                                                       |  |  |  |  |  |  |  |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|-------|
| Acabado / Finishing / Finition                                                                                                                                 |  |  |  |  |  |  |  | MATT  |
| 15 veces más resistente a la abrasión y oxidación / 15 times more resistant against abrasion and rust / 15 fois plus résistant contre l'abrasion et la rouille |  |  |  |  |  |  |  | NYLON |

■ **ROBUST II MAGNET**

| COD.         | L<br>m | mm | CLIP | Icon | mm | g   | Icon | Icon |
|--------------|--------|----|------|------|----|-----|------|------|
| <b>65167</b> | 5      | 25 | ●    | ●    | mm | 2,3 | 3,5  | 220  |

**BMAT MAGNET NYLON** | Class II



| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                                                                                       |  |  |  |  |  |  |  |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|-------|
| Acabado / Finishing / Finition                                                                                                                                 |  |  |  |  |  |  |  | MATT  |
| 15 veces más resistente a la abrasión y oxidación / 15 times more resistant against abrasion and rust / 15 fois plus résistant contre l'abrasion et la rouille |  |  |  |  |  |  |  | NYLON |

| COD.  | L<br>m/ft | mm | CLIP | mm/inch | 2,3 | 3,5     | 220 | 12  |     |    |   |
|-------|-----------|----|------|---------|-----|---------|-----|-----|-----|----|---|
| 65360 | 5/16      | 25 | •    | •       | •   | mm/inch | 2,3 | 3,5 | 220 | 12 | • |

**BIMAT** MAGNET NYLON I Class II

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                                                                |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Acabado / Finishing / Finition                                                                                                                                 | MATT  |
| 15 veces más resistente a la abrasión y oxidación / 15 times more resistant against abrasion and rust / 15 fois plus résistant contre l'abrasion et la rouille | NYLON |

**RALLYE II**

| COD.  | L<br>m | mm | CLIP | mm | 1,6 | 1,9 | 105 | 20  |    |
|-------|--------|----|------|----|-----|-----|-----|-----|----|
| 65171 | 2      | 16 | •    | •  | mm  | 1,6 | 1,9 | 105 | 20 |
| 65172 | 3      |    |      |    |     |     | 120 |     |    |
| 65173 | 5      | 19 | •    | •  | mm  | 1,8 | 2,2 | 200 | 18 |
| 65174 | 8      | 25 |      |    |     | 2,3 | 3,1 | 330 | 12 |

**BIMAT URAR** I Class II

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                                                                |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Acabado / Finishing / Finition                                                                                                                                 | MATT |
| 10 veces más resistente a la abrasión y oxidación / 10 times more resistant against abrasion and rust / 10 fois plus résistant contre l'abrasion et la rouille | URAR |

| COD.  | L<br>m/ft | mm | CLIP | mm/inch | 1,6     | 1,9 | 105 | 20  |    |
|-------|-----------|----|------|---------|---------|-----|-----|-----|----|
| 65361 | 2/6       | 16 | •    | •       | mm/inch | 1,6 | 1,9 | 105 | 20 |
| 65362 | 3/10      |    |      |         |         |     | 120 |     |    |
| 65363 | 5/16      | 19 | •    | •       | mm/inch | 1,8 | 2,2 | 200 | 18 |
| 65364 | 8/26      | 25 |      |         |         | 2,3 | 3,1 | 330 | 12 |

**BIMAT URAR** I Class II

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                                                                |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Acabado / Finishing / Finition                                                                                                                                 | MATT |
| 10 veces más resistente a la abrasión y oxidación / 10 times more resistant against abrasion and rust / 10 fois plus résistant contre l'abrasion et la rouille | URAR |

**CINTAS MÉTRICAS / LONG MEASURING TAPES / RUBAN DE MESURE / STAHLBANDMASS MIT GRIFF / BINDELLA / FITAS METRICAS LONGAS / ДЛИННЫЕ РУЛЕТКИ**

**MODELOS EN CARCASA BIMATERIAL ANTICHOQUE (BIMAT) EQUIPADOS CON SISTEMAS DE RECOGIDA RÁPIDA DE CINTA ANTIATASCO / ANTISHOCK BIMATERIAL CASES (BIMAT) EQUIPPED WITH ANTI-BLOCKAGE FAST REWINDING SYSTEM / MODELES AVEC ANTI-CHOCs BI-MATIERE (BIMAT) EQUIPES D'UN SYSTEME DE REMBOBINAGE RAPIDE ANTI-BLOCCAGE / ANTISHOCK ZWEI KOMPONENTE KOFFER (BIMAT) AUSGESTATTET MIT EINEN SCHNELLER AUFWICKLUNGSSYSTEMM MIT ANTI-BLOCKIERUNG / MODELLI IN ALLOGGIAMENTO BIMATERIALE ANTISHOCK (BIMAT) EQUIPAGGIATO CON SISTEMA DI RACCOLTA RAPIDA DEL NASTRO ANTI-INCEPPAMENTO / MODELOS EM CARÇA BIMATERIAL ANTI-CHOQUE (BIMAT), EQUIPADOS COM SISTEMA DE RECOLHA RÁPIDO DE FITA ANTI-BLOQUEIO / МОДЕЛИ С КОРПУСОМ ИЗ АНТИШОКОВОГО МАТЕРИАЛА (BIMAT) ОБОРУДОВАННЫЕ ПРОТИВОЗАТОРНОЙ СИСТЕМОЙ ДЛЯ БЫСТРОГО СМАТЫВАНИИ ЛЕНТЫ**

**CINTA DE ACERO / STEEL TAPE / RUBAN D'ACIER / STAHLBANDMASS / NASTRO IN ACCIAIO / FITA METRICA DE AÇO / СТАЛЬНАЯ ЛЕНТА**

| COD.  | L<br>m | mm | mm | g   | 5 |
|-------|--------|----|----|-----|---|
| 65175 | 10     |    |    | 440 |   |
| 65176 | 20     | 13 | mm | 520 | 5 |
| 65177 | 30     |    |    | 650 |   |

**BIMAT** I Class III

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                |                                                                       |
|--------------------------------|-----------------------------------------------------------------------|
| Acabado / Finishing / Finition | Normal amarillo lacado / Normal yellow lacquered / Jaune normal laque |
|--------------------------------|-----------------------------------------------------------------------|



**CINTA DE FIBRA DE VIDRIO / FIBER GLASS TAPE / RUBAN EN FIBRE DE VERRE / BANDMASS GLASFASER / NASTRO IN FIBRA DI VETRO / FITA METRICA DE FIBRA DE VIDRO / ФИБЕРГЛАССОВАЯ ЛЕНТА**

| COD.  |    |    |    |     |   |   |
|-------|----|----|----|-----|---|---|
| 65178 | 10 |    |    | 360 |   |   |
| 65179 | 20 |    |    | 400 | 5 |   |
| 65180 | 30 | 13 | mm | 440 |   | ● |
| 65181 | 50 |    |    | 750 |   |   |

**BMAT I** Class III

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Acabado / Finishing / Finition Fibra de vidrio / Fiberglass / Fibre de verre



| COD.  |        |    |         |     |   |   |
|-------|--------|----|---------|-----|---|---|
| 65365 | 10/33  |    |         | 360 |   |   |
| 65367 | 30/100 | 13 | mm/inch | 440 | 5 | ● |
| 65368 | 50/165 |    |         | 750 |   |   |

**BMAT I** Class III

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Acabado / Finishing / Finition Fibra de vidrio / Fiberglass / Fibre de verre

**SONDA / TANK DIPPING TAPE / SONDE / TANKMASSBAND / SONDE / SONDA / РУЛЕТКА ДЛЯ ЗАМЕРОВ ТАНКОВ**

| COD.  |    |    |    |     |   |   |
|-------|----|----|----|-----|---|---|
| 65182 | 10 |    |    | 500 |   |   |
| 65184 | 30 | 13 | mm | 700 | 1 | ● |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cinta para mediciones en inmersión en tanques oleaginosos / Tank dipping tape for oleaginous tanks / Rubans pour mesures immergées en réservoirs oléagineux

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Acabado / Finishing / Finition Cinta negra / Black tape / Bande noire

Material de la carcasa / Housing material / Matériel carcasse Aluminio / Aluminum / Aluminium



**CINTA DE ACERO / STEEL TAPE / RUBAN D'ACIER / STAHLBANDMASS / NASTRO IN ACCIAIO / FITA METRICA DE AÇO / СТАЛЬНАЯ ЛЕНТА**

| COD.  |    |    |    |     |   |   |
|-------|----|----|----|-----|---|---|
| 65185 | 10 |    |    | 400 |   |   |
| 65186 | 20 |    |    | 500 |   |   |
| 65187 | 30 | 13 | mm | 600 | 1 | ● |
| 65188 | 50 |    |    | 700 |   |   |

Class III

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Gama de cinta de tipo pistola ergonómica de fácil manejo / Ergonomic Gun Type Long Tape / Gamme de ruban revolver ergonomiques pour un usage facilité

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**




Acabado / Finishing / Finition Normal amarillo lacado / Normal yellow lacquered / Jaune normal laque

Material de la carcasa / Housing material / Matériel carcasse Aluminio / Aluminum / Aluminium



■ **NIVELES / SPIRIT LEVELS / NIVEAUX / WASSERWAAGEN / LIVELLE / NIVEIS / ЖИДКОСТНОЙ УРОВЕНЬ**

■ **TUBULAR DE ALTA PRECISIÓN 0,5MM/M / 0,5MM/M HIGH ACCURACY SPIRIT LEVEL / NIVEAU TUBULAIRE DE HAUTE PRECISION 0,5MM/M / PROFI WASSERWAGEN 0,5MM/M AKKURAT / LIVELLA TUBOLARE AD ALTA PRECISIONE 0,5MM/M / NIVEL TUBULAR DE ALTA PRECISÃO 0,5MM/M / ЖИДКОСТНЫЕ УРОВНИ ВЫСОКОЙ ТОЧНОСТИ 0,5MM/M**





| COD.  | L (mm) |  | (mm/m) |  |  |
|-------|--------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 65191 | 300    |                                                                                   |        | 200                                                                               |                                                                                     |
| 65192 | 400    |                                                                                   |        | 240                                                                               |                                                                                     |
| 65193 | 500    |                                                                                   |        | 300                                                                               |                                                                                     |
| 65194 | 600    | 3                                                                                 | 0,5    | 360                                                                               | 6                                                                                   |
| 65195 | 800    |                                                                                   |        | 460                                                                               |                                                                                     |
| 65196 | 1000   |                                                                                   |        | 550                                                                               |                                                                                     |
| 65197 | 1200   |                                                                                   |        | 600                                                                               |                                                                                     |



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                      |                                 |
|----------------------------------------------------------------------|---------------------------------|
| Precisión / Accuracy / Précision                                     | 0,5 mm/m                        |
| Material de la carcasa / Housing material / Matériel carcasse        | Aluminio / Aluminum / Aluminium |
| Burbujas antichoque / Antishock vials / Fioles antichocs             | ●                               |
| Asas de fácil manejo / Easy-use handles / Anses pour manieiment aise | ●                               |

■ **TUBULAR MAGNÉTICO DE PRECISIÓN 1MM-M / 1MM-M ACCURACY MAGNETIC SPIRIT LEVEL / NIVEAU TUBULAIRE DE PRECISION 1MM-M MAGNETIQUE / MAGNETISCHE WASSERWAGEN 1MM-M ACCURAT / LIVELLA MAGNETICA TUBOLARE DI PRECISIONE 1MM-M / NIVEL TUBULAR DE PRECISÃO 1MM-M MAGNETICO / МАГНИТНЫЕ ЖИДКОСТНЫЕ УРОВНИ С ТОЧНОСТЬЮ 1MM-M**

| COD.  | L (mm) |  |  | (mm/m) |  |  |
|-------|--------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 65145 | 400    |                                                                                    |                                                                                    |        | 230                                                                                |                                                                                      |
| 65147 | 600    |                                                                                    |                                                                                    |        | 310                                                                                |                                                                                      |
| 65198 | 800    |                                                                                    |                                                                                    |        | 700                                                                                |                                                                                      |
| 65199 | 1000   | ●                                                                                  | 3                                                                                  | 1      | 900                                                                                | 6                                                                                    |
| 65200 | 1200   |                                                                                    |                                                                                    |        | 1000                                                                               |                                                                                      |
| 65201 | 1500   |                                                                                    |                                                                                    |        | 1250                                                                               |                                                                                      |
| 65689 | 2000   |                                                                                    |                                                                                    |        | 1500                                                                               |                                                                                      |






**MAGNET** 

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                                                   |                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| Precisión / Accuracy / Précision                                                                                                                  | 1 mm/m                          |
| Material de la carcasa / Housing material / Matériel carcasse                                                                                     | Aluminio / Aluminum / Aluminium |
| Burbujas antichoque / Antishock vials / Fioles antichocs                                                                                          | ●                               |
| Magnético para sujeción a superficies metálicas / Magnetic for fixing to metallic surfaces / Magnetique pour accroche sur superficies metalliques | ●                               |

■ **TUBULAR DE PRECISIÓN 1MM-M ESCALA GRADUADA / GRADUATED SCALE 1MM-M ACCURACY SPIRIT LEVEL / NIVEAU TUBULAIRE DE PRECISION 1MM-M ECHELLE GRADUEE / GRADUAL WASSERWAGEN 1MM-M ACCURAT / LIVELLA TUBOLARE DI PRECISIONE CON SCALA GRADUATA 1MM-M / NIVEL TUBULAR DE PRECISÃO 1MM-M ESCALA GRADUADA / ГРАДУИРОВАННАЯ ШКАЛА С ЖИДКОСТНЫМ УРОВНЕМ 1MM-M**




| COD.  | L (mm) |  | (mm/m) |  |  |
|-------|--------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 65148 | 300    |                                                                                     |        | 140                                                                                 |                                                                                       |
| 65149 | 400    |                                                                                     |        | 180                                                                                 |                                                                                       |
| 65151 | 600    |                                                                                     |        | 300                                                                                 |                                                                                       |
| 65152 | 700    | 3                                                                                   | 1      | 340                                                                                 | 1                                                                                     |
| 65153 | 800    |                                                                                     |        | 400                                                                                 |                                                                                       |
| 65154 | 1000   |                                                                                     |        | 480                                                                                 |                                                                                       |



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                               |                                 |
|---------------------------------------------------------------|---------------------------------|
| Precisión / Accuracy / Précision                              | 1 mm/m                          |
| Material de la carcasa / Housing material / Matériel carcasse | Aluminio / Aluminum / Aluminium |
| Burbujas antichoque / Antishock vials / Fioles antichocs      | ●                               |
| Escala graduada / Graduated scale base / Echelle graduee      | ●                               |





**NIVEL TRAPEZOIDAL / BRIDGE TYPE SPIRIT LEVEL / NIVEAU TRAPEZOIDAL / EINSOHLIGE WASSERWAGEN / LIVELLA TRAPEZOIDALE / NÍVEL TRAPEZOIDAL / МОСТОВОГО ТИПА**

| COD.  | L (mm) |  | (mm/m) |  |  |
|-------|--------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 65155 | 400    |                                                                                   |        | 250                                                                               |                                                                                     |
| 65156 | 500    | 2                                                                                 | 1      | 320                                                                               | 6                                                                                   |
| 65157 | 600    |                                                                                   |        | 400                                                                               |                                                                                     |



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                               |                                 |
|---------------------------------------------------------------|---------------------------------|
| Precisión / Accuracy / Précision                              | 1 mm/m                          |
| Material de la carcasa / Housing material / Matériel carcasse | Aluminio / Aluminum / Aluminium |
| Burbujas antichoque / Antishock vials / Fioles antichocs      | ●                               |

| COD.  | L (mm) |  |  | (mm/m) |  |  |
|-------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 65293 | 400    |                                                                                   |                                                                                   | 250    |                                                                                   |                                                                                     |
| 65294 | 500    | ●                                                                                 | 2                                                                                 | 320    | 6                                                                                 |                                                                                     |
| 65295 | 600    |                                                                                   |                                                                                   | 400    |                                                                                   |                                                                                     |






**MAGNET C**

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                               |                                 |
|---------------------------------------------------------------|---------------------------------|
| Precisión / Accuracy / Précision                              | 1 mm/m                          |
| Material de la carcasa / Housing material / Matériel carcasse | Aluminio / Aluminum / Aluminium |
| Burbujas antichoque / Antishock vials / Fioles antichocs      | ●                               |

**NIVEL TRAPEZOIDAL PROFESIONAL / PROFESSIONAL BRIDGE TYPE SPIRIT LEVEL / NIVEAU TRAPEZOIDAL PROFESSIONNEL / PROFI EINSOHLIGE WASSERWAGEN / LIVELLA TRAPEZOIDALE PROFESSIONALE / NÍVEL TRAPEZOIDAL PROFISSIONAL / ПРОФЕСИОНАЛЬНЫЙ ПУЗЫРЬКОВЫЙ УРОВЕНЬ**

| COD.  | L (mm) |  | (mm/m) |  |  |
|-------|--------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 57525 | 400    |                                                                                     | 0,5    | 440                                                                                 | 6                                                                                     |
| 57526 | 500    | 2                                                                                   |        | 560                                                                                 |                                                                                       |



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**





|                                                               |                                 |
|---------------------------------------------------------------|---------------------------------|
| Precisión / Accuracy / Précision                              | 0,5 mm/m                        |
| Material de la carcasa / Housing material / Matériel carcasse | Aluminio / Aluminum / Aluminium |
| Burbujas antichoque / Antishock vials / Fioles antichocs      | ●                               |

| COD.  | L (mm) |  | (mm/m) |  |  |
|-------|--------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 57527 | 600    | 3                                                                                   | 0,5    | 650                                                                                 | 6                                                                                     |



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                               |                                 |
|---------------------------------------------------------------|---------------------------------|
| Precisión / Accuracy / Précision                              | 0,5 mm/m                        |
| Material de la carcasa / Housing material / Matériel carcasse | Aluminio / Aluminum / Aluminium |
| Burbujas antichoque / Antishock vials / Fioles antichocs      | ●                               |





| COD.  | L (mm) |  |  | (mm/m) |  |  |
|-------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 57528 | 400    |                                                                                     |                                                                                     | 460    |                                                                                     |                                                                                       |
| 57529 | 500    | ●                                                                                   | 2                                                                                   | 580    | 6                                                                                   |                                                                                       |



**MAGNET C**

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                               |                                 |
|---------------------------------------------------------------|---------------------------------|
| Precisión / Accuracy / Précision                              | 0,5 mm/m                        |
| Material de la carcasa / Housing material / Matériel carcasse | Aluminio / Aluminum / Aluminium |
| Burbujas antichoque / Antishock vials / Fioles antichocs      | ●                               |

| COD.         | L (mm) |  |  | (mm/m) |  |  |
|--------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>57530</b> | 600    | ●                                                                                 | 3                                                                                 | 0,5    | 670                                                                               | 6                                                                                   |





**MAGNET C**



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                               |                                 |
|---------------------------------------------------------------|---------------------------------|
| Precisión / Accuracy / Précision                              | 0,5 mm/m                        |
| Material de la carcasa / Housing material / Matériel carcasse | Aluminio / Aluminum / Aluminium |
| Burbujas antichoque / Antishock vials / Fioles antichocs      | ●                               |

■ **TORPEDO / TORPEDO / TORPILLE / TORPEDO WASSERWAGEN / LIVELLA TORPEDO / NIVEL TORPEDO / ТОРПЕДО**

| COD.         | L (mm) |  |  | (mm/m) |  |  |
|--------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>65158</b> | 220    | ●                                                                                 | 3                                                                                 | 1      | 110                                                                               | 6                                                                                   |

**MAGNET C**





**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                               |                                |
|---------------------------------------------------------------|--------------------------------|
| Precisión / Accuracy / Précision                              | 1 mm/m                         |
| Material de la carcasa / Housing material / Matériel carcasse | Plástico / Plastic / Plastique |
| Burbujas antichoque / Antishock vials / Fioles antichocs      | ●                              |

■ **PLOMADA TRAZADORA / CHALK LINE REEL / CORDEAU RECHARGEABLE / SCHLAGSCHNURROLLER / GESSO TRACCIATORE / LINHAS DE TRAÇAR / МЕЛОВОЙ МАРКЕР**

| COD.         | (mm/m) |  |  |
|--------------|--------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>65203</b> | 15 m   | 370                                                                                | 3                                                                                  |



| COD.         |  |  |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>64418</b> | 115                                                                                 | 3                                                                                   |
| <b>64419</b> | 230                                                                                 |                                                                                     |



**BE SAFE...BE EFFICIENT**

**NIVELES LÁSER Y MEDIDORES / LASER LEVELS AND MEASURERS / NIVEAUX LASER ET MESURES / LINIENLASER UND VERMESSUNG / METRI E LIVELLE / NÍVEIS LASER E MEDIDORES / ЛАЗЕРНЫЕ ИЗМЕРИТЕЛИ И УРОВНИ**

**NIVEL LÁSER AUTONIVELANTE STANDARD / STANDARD SELF-LEVELING LASER LEVEL / NIVEAU LASER AUTO-RÉGLABLE STANDARD / STANDARD SELBSTNIVILIERENDE LINIENLASER / LIVELLA AUTOLIVELLANTE STANDARD / NÍVEL LASER AUTONIVELANTE STANDARD / СТАНДАРТНЫЙ САМОУСТАНОВЛИВАЮЩИЙСЯ УРОВЕНЬ**

|                                                                                                                                   |                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| COD.                                                                                                                              |                                                                |
| <b>65514</b>                                                                                                                      |                                                                |
| CE I 12M                                                                                                                          |                                                                |
| <b>CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES</b>                                                                              |                                                                |
| Proyección láser horizontal / <i>Horizontal laser line</i> / Laser horizontal                                                     |                                                                |
| Proyección láser vertical / <i>Vertical laser line</i> / Laser vertical                                                           |                                                                |
| Proyección cruceta / <i>Laser cross</i> / Lase en croix                                                                           |                                                                |
| Base rotatoria graduada en sus 360° / <i>Rotatory base provides 360° angle reference points</i> / Base tournante graduée sur 360° |                                                                |
| <b>ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES</b>                                                   |                                                                |
| Fuente de alimentación / <i>Power supply</i> / Alimentation                                                                       | 2 x 1,5V AA DC                                                 |
| Autonomía / <i>Autonomy</i> / Autonomie                                                                                           | 4 h cont.                                                      |
| Longitud de onda / <i>Laser wavelength</i> / Longueur d'onde                                                                      | 650 nm                                                         |
| Potencia del láser / <i>Output power</i> / Puissance du laser                                                                     | < 1mW                                                          |
| Tipo de láser / <i>Laser class</i> / Type de laser                                                                                | 2                                                              |
| Precisión / <i>Accuracy</i> / Précision                                                                                           | 0,5 mm/m                                                       |
| Distancia de trabajo / <i>Working distance</i> / Distance de travail                                                              | 10 m                                                           |
| Sistema de aviso / <i>Warning system</i> / Système d'alerte                                                                       | Luz parpadeante / <i>Flashing light</i> / Lumière intermitante |
| Rango de autonivelación / <i>Self-leveling range</i> / Précision de l'autonivelage                                                | ± 3°                                                           |
| Temperatura de trabajo / <i>Working temperature</i> / Température de travail                                                      | 0 °C - 40 °C                                                   |
| <b>EQUIPADO CON / EQUIPED WITH / EQUIPE</b>                                                                                       |                                                                |
| Maleta plástico / <i>Blow mould case</i> / Malette plastique                                                                      |                                                                |
| Trípode aluminio 45-120 cm / <i>45-120 cm Aluminum tripod</i> / Tripode en Aluminum 45-120 cm                                     |                                                                |
| Base / <i>Trestle</i> / Base                                                                                                      |                                                                |
| Gafas / <i>Goggles</i> / Lunettes                                                                                                 |                                                                |



**BUSCAPOLOS / VOLTAGE TESTER / TESTEUR / SPANNUNGSPRÜFER / CERCAFASE / BUSCA-POLOS / ИЗМЕРИТЕЛЬ НАПРЯЖЕНИЯ**

|              |        |        |            |    |    |   |
|--------------|--------|--------|------------|----|----|---|
| COD.         | L (mm) |        | V          |    |    |   |
| <b>66073</b> | 190    | 3 x 15 | 100-250 AC | 30 | 12 | ● |



**BUSCAPOLOS DIGITAL / DIGITAL VOLTAGE TESTER / TESTEUR DIGITAL / DIGITAL SPANNUNGSPRÜFER / CERCAFASE DIGITALE / BUSCA-POLOS DIGITAL / ЦИФРОВОЙ ИЗМЕРИТЕЛЬ НАПРЯЖЕНИЯ**

|              |        |        |             |    |   |   |
|--------------|--------|--------|-------------|----|---|---|
| COD.         | L (mm) |        | V           |    |   |   |
| <b>66074</b> | 160    | 3 x 15 | 0-220 AC/DC | 40 | 4 | ● |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

5 niveles de tensión / *5 voltage levels* / 5 niveaux de tension

**TESTER ELECTRÓNICO MEDIDOR DE TENSION 2 EN 1 / ELECTRONIC TESTER 2 IN 1 / TESTEUR ELECTRONIQUE A MESURE DE TENSION 2 EN 1 / SPANNUNGSPRÜFER ELEKTRONIK, 2 IN 1 / TESTER ELECTRONICO 2 IN 1 / MEDIDOR DE TENSÃO 2 EM 1 / ЭЛЕКТРОННЫЙ ТЕСТЕР 2 В 1**

|              |        |          |     |   |   |
|--------------|--------|----------|-----|---|---|
| COD.         | L (mm) | V        |     |   |   |
| <b>66075</b> | 190    | 6-380 AC | 220 | 4 | ● |



**BUSCAPOLOS CLASSIC / VOLTAGE TESTER / TESTEUR / SPANNUNGSPRÜFER / CERCAFASE / BUSCA-POLOS / ИЗМЕРИТЕЛЬ НАПРЯЖЕНИЯ**

|              |        |    |            |    |    |   |
|--------------|--------|----|------------|----|----|---|
| COD.         | L (mm) |    | V          |    |    |   |
| <b>66070</b> | 140    | 65 | 100-250 AC | 20 | 12 | ● |



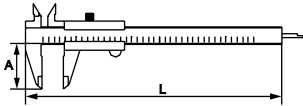
**12M** GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

| COD.         | L (mm) |     |     | V          |    |    |   |
|--------------|--------|-----|-----|------------|----|----|---|
| <b>66071</b> | 190    | 100 | 4   | 100-250 AC | 35 | 12 | • |
| <b>66069</b> |        |     | 3,5 | 90-480 AC  | 40 |    |   |



**INSTRUMENTOS DE MEDICIÓN DE PRECISIÓN / PRECISION MEASURING INSTRUMENTS / APPAREILS DE MESURE DE PRÉCISION / PRÄZISIONSMESSGERÄTE / STRUMENTI DI MISURA DI PRECISIONE / FERRAMENTAS DE MEDIÇÃO DE PRECISÃO / ПРИБОРЫ ДЛЯ ТОЧНЫХ ИЗМЕРЕНИЙ**

**CALIBRE PIE DE REY / VERNIER CALIPER / PIED À COULISSE / TASCHENMESSSCHIEBER / CALIBRI A CORSOIO / PAQUIMETRO / ШТАНГЕНЦИРКУЛЬ**

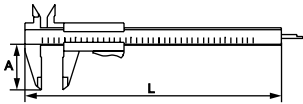


| COD.         |     |      |    |       | A (mm) | L (mm) |     |   |
|--------------|-----|------|----|-------|--------|--------|-----|---|
| <b>65479</b> | 150 |      | 6  |       | 40     | 235    | 280 |   |
| <b>65480</b> | 200 | 0,02 | 8  | 0,001 | 50     | 280    | 420 | 1 |
| <b>65688</b> | 300 |      | 12 |       | 65     | 400    | 750 |   |



**INOX**

**CALIBRE PIE DE REY (BLOCAJE POR RESORTE) / VERNIER CALIPER WITH THUMB BRAKE / PIEDS À COULISSE / WERKSTATTMESSSCHIEBER / CALIBRI A CORSOIO (BLOCCAGGIO A MOLLA) / PAQUIMETRO DE BLOCAGEM POR MOLA / ШТАНГЕНЦИРКУЛЬ С ТОРМОЗОМ**

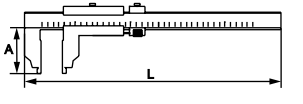


| COD.         |     |      |   |       | A (mm) | L (mm) |     |   |
|--------------|-----|------|---|-------|--------|--------|-----|---|
| <b>65481</b> | 150 |      | 6 |       | 40     | 235    | 280 | 1 |
| <b>65482</b> | 200 | 0,02 | 8 | 0,001 | 50     | 280    | 430 |   |



**INOX**

**CALIBRE PIE DE REY CON BOCAS LARGAS / LONG TIP VERNIER CALIPER / PIED À COULISSE GRANDES OUVERTURES / TIEFENMESSSCHIEBER / CALIBRI A CORSOIO A BOCCA LARGA / PAQUIMETRO COM PONTAS COMPRIDAS / ШТАНГЕНЦИРКУЛЬ С ДЛИННОЙ ШКАЛОЙ**

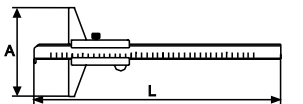


| COD.         |     |      |   |       | A (mm) | L (mm) |     |   |
|--------------|-----|------|---|-------|--------|--------|-----|---|
| <b>65483</b> | 200 | 0,02 | 8 | 0,001 | 65     | 350    | 920 | 1 |



**INOX**

**CALIBRE PIE DE REY DE PROFUNDIDAD / VERNIER DEEP GAUGE / PIED À COULISSE DE PROFONDEUR / NONIUS TIEFENLEHRE / CALIBRO DI PROFONDITÀ / PAQUIMETRO DE PROFUNDIDADE / ШТАНГЕНЦИРКУЛЬ ГЛУБИНОМЕР НЕРЖ**



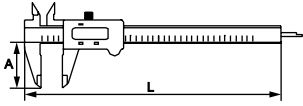
| COD.         |     |      |    | A (mm) | L (mm) |     |   |
|--------------|-----|------|----|--------|--------|-----|---|
| <b>65652</b> | 300 | 0,02 | 12 | 100    | 400    | 750 | 1 |



**INOX**



**CALIBRE DIGITAL / DIGITAL CALIPER / PIED À COULISSE DIGITAL / DIGITAL-TASCHENMESSSCHIEBER / CALIBRO DIGITALE / PAQUIMETRO DIGITAL / ШТАНГЕНЦИРКУЛЬ ЦИФРОВОЙ**

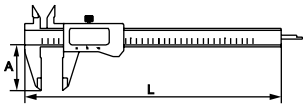


| COD.         | L (mm) | mm   | L (inches) | inches | A (mm) | L (mm) | g   |   |
|--------------|--------|------|------------|--------|--------|--------|-----|---|
| <b>65484</b> | 150    | 0,01 | 6          | 0,0005 | 40     | 235    | 300 | 1 |
| <b>65485</b> | 200    |      | 8          |        | 50     | 280    | 400 |   |

CE INDX

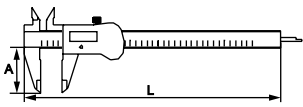


**CALIBRE DIGITAL (CARCASA METÁLICA) / METAL CASE DIGITAL CALIPER / PIED À COULISSE DIGITAL MÉTALLIQUE / TASCHENMESSSCHIEBER ROSTFREI / CALIBRO DIGITALE CON CASSA METALLICA / PAQUIMETRO DIGITAL COM CARÇAÇA DE METAL / ШТАНГЕНЦИРКУЛЬ ЦИФРОВОЙ С МЕТАЛЛИЧЕСКИМ КОРПУСОМ**



| COD.         | L (mm) | mm   | L (inches) | inches | A (mm) | L (mm) | g   |   |
|--------------|--------|------|------------|--------|--------|--------|-----|---|
| <b>65486</b> | 150    | 0,01 | 6          | 0,0005 | 40     | 235    | 340 | 1 |
| <b>65487</b> | 200    |      | 8          |        | 50     | 280    | 460 |   |

CE INDX



| COD.         | IP | L (mm) | mm   | L (inches) | inches | A (mm) | L (mm) | g   |   |
|--------------|----|--------|------|------------|--------|--------|--------|-----|---|
| <b>65488</b> | 67 | 150    | 0,01 | 6          | 0,0005 | 40     | 235    | 430 | 1 |

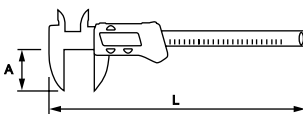
CE INDX



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Se puede usar con refrigerante, taladrina, agua y aceites de corte / Able to be used with coolant, water and cutting oils and fluids / On peut l'utiliser en presence de réfrigérants, huile soluble, d'eau et d'huile de coupe

**CALIBRE DIGITAL LIGERO / DIGITAL CALIPER / PIED À COULISSE DIGITAL LÉGER / DIGITAL TASCHENMESSSCHIEBER FIBREGLASS / CALIBRO DIGITALE IN FIBRA DI VETRO / PAQUIMETRO DIGITAL DE FIBRA DE VIDRO / ШТАНГЕНЦИРКУЛЬ ЦИФРОВОЙ С ФИБЕРГЛАСОВЫМ КОРПУСОМ**



| COD.         | L (mm) | mm  | L (inches) | inches | A (mm) | L (mm) | g   |   |
|--------------|--------|-----|------------|--------|--------|--------|-----|---|
| <b>65489</b> | 150    | 0,1 | 6          | 0,005  | 40     | 235    | 200 | 1 |

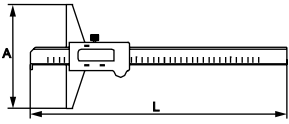
CE



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de carbono reforzada / Reinforced fiber carbon / Fibre de carbone renforcée

**CALIBRE DE PROFUNDIDAD DIGITAL / DIGITAL DEPTH GAUGE / PIED À COULISSE DE PROFONDEUR DIGITAL / DIGITALE TIEFENANZEIGE / CALIBRO DI PROFONDITÀ DIGITALE / PAQUÍMETRO DIGITAL DE PROFUNDIDADE / ЦИФРОВОЙ ГЛУБИНОМЕР**

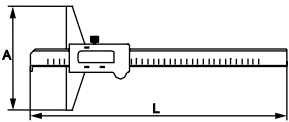


| COD.         | L (mm) | mm   | L (inches) | inches | A (mm) | L (mm) | g   |   |
|--------------|--------|------|------------|--------|--------|--------|-----|---|
| <b>65657</b> | 150    | 0,01 | 6          | 0,0005 | 100    | 230    | 300 | 1 |

CE INDX



**CALIBRE DE PROFUNDIDAD DIGITAL PARA RANURAS / DIGITAL DEPTH GAUGE FOR GROOVES / JAUGE DE PROFONDEUR DIGITAL POUR RAINURES / DIGITALE TIEFENANZEIGE FÜR RILLEN / CALIBRO DI PROFONDITÀ DIGITALE PER SCANALATURE / PAQUÍMETRO DIGITAL DE PROFUNDIDADE PARA RANHURAS / ГЛУБИНОМЕР ЦИФРОВОЙ ДЛЯ ОТВЕРСТИЙ И ПАЗОВ**



| COD.         | L (mm) | mm   | L (inches) | inches | A (mm) | L (mm) | g   |   |
|--------------|--------|------|------------|--------|--------|--------|-----|---|
| <b>65491</b> | 200    | 0,01 | 8          | 0,0005 | 100    | 280    | 480 | 1 |

CE INDX



**MICRÓMETRO PARA EXTERIORES / OUTER MICROMETER / MICROMÈTRE EXTÉRIEUR / PRÄZISIONS-BÜGELMESSSCHRAUBEN / MICROMETRI PER ESTERNI / MICRÓMETRO PARA EXTERIORES / МИКРОМЕТР НАРУЖНЫЙ**

| COD.         | L (mm) | mm   | g   |   |
|--------------|--------|------|-----|---|
| <b>65492</b> | 0-25   |      | 420 |   |
| <b>65493</b> | 25-50  |      | 550 |   |
| <b>65494</b> | 50-75  | 0,01 | 700 | 1 |
| <b>65495</b> | 75-100 |      | 900 |   |



**MICRÓMETRO DIGITAL PARA EXTERIORES / OUTER DIGITAL MICROMETER / MICROMÈTRE DIGITAL EXTÉRIEUR / PRÄZISIONS-BÜGELMESSSCHRAUBEN DIGITAL / MICROMETRI DIGITALE PER ESTERNI / MICRÓMETRO PARA EXTERIORES DIGITAL / МИКРОМЕТР НАРУЖНЫЙ ЦИФРОВОЙ**

| COD.         | L (mm) | mm    | g   |   |
|--------------|--------|-------|-----|---|
| <b>65496</b> | 0-25   |       | 500 |   |
| <b>65497</b> | 25-50  |       | 600 |   |
| <b>65498</b> | 50-75  | 0,001 | 750 | 1 |
| <b>65499</b> | 75-100 |       | 950 |   |

CE







**MICRÓMETRO PARA INTERIORES / INSIDE MICROMETERS / MICROMÈTRE INTÉRIEUR / INNEN-MIKROMETER / MICROMETRI PER INTERNI / MICRÓMETRO PARA INTERIORES / ЭЛЕКТРОННЫЙ МИКРОМЕТРИ**

| COD.         | L (mm) | mm   | Kg  |   |
|--------------|--------|------|-----|---|
| <b>65791</b> | 5-30   |      | 0,5 |   |
| <b>65792</b> | 25-50  |      | 0,6 |   |
| <b>65793</b> | 50-75  | 0,01 | 0,7 | 1 |
| <b>65794</b> | 75-100 |      | 0,8 |   |







**MICRÓMETRO DIGITAL PARA INTERIORES / INSIDE DIGITAL MICROMETERS / MICROMÈTRE DIGITAL INTÉRIEUR / INNEN-MIKROMETER DIGITAL / MICROMETRI DIGITALI PER INTERNI / MICRÓMETRO DIGITAL PARA INTERIORES / ЦИФРОВОЙ МИКРОМЕТР ДЛЯ ВНУТРЕННИХ ИЗМЕРЕНИЙ**

| COD.         |  |  |  |  |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>65795</b> | 5-30                                                                              |                                                                                   | 0,8                                                                               |                                                                                    |
| <b>65796</b> | 25-50                                                                             |                                                                                   | 1,0                                                                               |                                                                                    |
| <b>65797</b> | 50-75                                                                             | 0,001                                                                             | 1,1                                                                               | 1                                                                                  |
| <b>65798</b> | 75-100                                                                            |                                                                                   | 1,2                                                                               |                                                                                    |



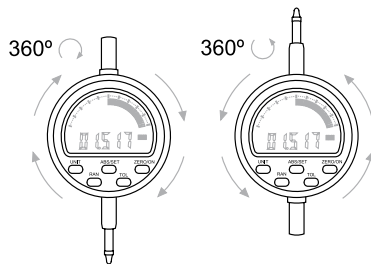
CE





**RELOJ COMPARADOR / DIAL INDICATOR / MONTRE COMPARATIVE / KLEINMESSUHR / OROLOGIO DI COMPARAZIONE / RELOGIO COMPARADOR / ИНДИКАТОР**

| COD.         |  |  |  |  |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>65501</b> | 0-10                                                                              | 0,01                                                                              | 340                                                                               | 1                                                                                  |



**RELOJ COMPARADOR DIGITAL / DIGITAL INDICATOR / MONTRE COMPARATIVE DIGITALE / DIGITALE INDIKATOR / OROLOGIO DI COMPARAZIONE DIGITALE / RELOGIO COMPARADOR DIGITAL / ЦИФРОВОЙ ИНДИКАТОР**





| COD.         |  |  |  |  |  |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>65502</b> | 0-12,5                                                                              | 0,001                                                                               | 0,0001                                                                              | 450                                                                                 | 1                                                                                     |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

El display puede girarse 360° para facilitar la lectura de las mediciones / The display can be turned 360° to make the measurements reading easier / Le display peut pivoter à 360° pour faciliter la lecture des mesures



**SOPORTE CON BASE MAGNÉTICA / MAGNETIC STAND / SUPPORT À BASE MAGNÉTIQUE / ARBEITSHILFE MAGNETFUSS / SUPPORTO MAGNETICO / SUPORTE COM BASE MAGNÉTICA / СТОЙКА МАГНИТНАЯ**

| COD.         | N   |  |  |  |  |
|--------------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>65789</b> | 588 | Ø 10 x 150 mm                                                                       | Ø 10 x 150 mm                                                                       | 58 x 50 x 55 mm                                                                     | 1,7                                                                                   |



**INSTRUMENTOS DE MEDICIÓN BLUETOOTH / BLUETOOTH MEASURING INSTRUMENTS / APPAREILS DE MESURE BLUETOOTH / BLUETOOTH-MESSGERÄTE / STRUMENTI DI MISURA BLUETOOTH / FERRAMENTAS DE MEDIÇÃO BLUETOOTH / ПРИБОРЫ ДЛЯ ИЗМЕРЕНИЯ С BLUETOOTH**

**CALIBRE DIGITAL BLUETOOTH / BLUETOOTH DIGITAL CALIPER / PIED À COULISSE DIGITAL BLUETOOTH / BLUETOOTH DIGITAL-TASCHENMESSSCHIEBER / CALIBRO DIGITALE BLUETOOTH / PAQUIMETRO DIGITAL BLUETOOTH / ШТАНГЕНЦИРКУЛЬ ЦИФРОВОЙ BLUETOOTH**

| COD.         | L (mm) | mm   | L (inches) | inches | g   |   |
|--------------|--------|------|------------|--------|-----|---|
| <b>66265</b> | 150    | 0,02 | 6          | 0,001  | 420 | 1 |



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                  |   |
|------------------------------------------------------------------------------------------------------------------|---|
| Bluetooth                                                                                                        | • |
| Comunicación de datos al ordenador / Data communication to the computer / Transmission de données à l'ordinateur | • |
| Comunicación de datos a smartphone / Data communication to smartphone / Transmission de données à l'smartphone   | • |

**MICROMETRO DIGITAL PARA EXTERIORES BLUETOOTH / BLUETOOTH OUTER DIGITAL MICROMETER / MICROMÈTRE DIGITAL EXTÉRIEUR BLUETOOTH / PRÄZISIONS-BÜGELMESSSCHRAUBEN DIGITAL BLUETOOTH / MICROMETRI DIGITALE PER ESTERNI BLUETOOTH / MICRÓMETRO PARA EXTERIORES DIGITAL BLUETOOTH / МИКРОМЕТР НАРУЖНЫЙ ЦИФРОВОЙ BLUETOOTH**

| COD.         | L (mm) | mm    | L (inches) | inches | g   |   |
|--------------|--------|-------|------------|--------|-----|---|
| <b>66266</b> | 25     | 0,003 | 1          | 0,0003 | 400 | 1 |



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                  |   |
|------------------------------------------------------------------------------------------------------------------|---|
| Bluetooth                                                                                                        | • |
| Comunicación de datos al ordenador / Data communication to the computer / Transmission de données à l'ordinateur | • |
| Comunicación de datos a smartphone / Data communication to smartphone / Transmission de données à l'smartphone   | • |

**RELOJ COMPARADOR DIGITAL BLUETOOTH / BLUETOOTH DIGITAL INDICATOR / MONTRE COMPARATIVE DIGITALE BLUETOOTH / BLUETOOTH DIGITALE INDIKATOR / OROLOGIO DI COMPARAZIONE DIGITALE BLUETOOTH / RELOGIO COMPARADOR DIGITAL BLUETOOTH / ЦИФРОВОЙ ИНДИКАТОР BLUETOOTH**

| COD.         | L (mm) | mm    | inches | g   |   |
|--------------|--------|-------|--------|-----|---|
| <b>66267</b> | 12,7   | 0,001 | 0,0001 | 300 | 1 |



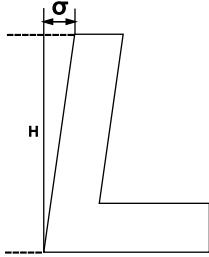
**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                  |   |
|------------------------------------------------------------------------------------------------------------------|---|
| Bluetooth                                                                                                        | • |
| Comunicación de datos a smartphone / Data communication to smartphone / Transmission de données à l'smartphone   | • |
| Comunicación de datos al ordenador / Data communication to the computer / Transmission de données à l'ordinateur | • |
| Software                                                                                                         | • |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

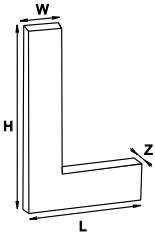
El display puede girarse 360° para facilitar la lectura de las mediciones / The display can be turned 360° to make the measurements reading easier / Le display peut pivoter à 360° pour faciliter la lecture des mesures

**ESCUADRAS DE MEDICIÓN / PRECISION SQUARES / ÉQUERRES DE MESURE / PRÄZISIONSQUADRATE / SQUADRE DI MISURAZIONE / ESQUADROS DE MEDIÇÃO / УГОЛЬНИКИ ПОВЕРОЧНЫЕ**



| L (mm) | Class                             |    |    |    | DIN 875 |
|--------|-----------------------------------|----|----|----|---------|
|        | 00                                | 0  | 1  | 2  |         |
|        | Desviación $\sigma$ $\mu\text{m}$ |    |    |    |         |
| 50     |                                   | -  | -  | -  |         |
| 75     | 3                                 | 7  | 14 | 28 |         |
| 100    |                                   |    | 15 | 30 |         |
| 150    |                                   | 8  | 18 | 35 |         |
| 200    | 4                                 | 9  | 20 | 40 |         |
| 250    |                                   | 10 | 23 | 45 |         |
| 300    | 5                                 | 11 | 25 | 50 |         |
| 500    | -                                 | 15 | 35 | 70 |         |

**ESCUADRAS DE TRABAJO / WORKSHOP SQUARES / ÉQUERRES DE TRAVAIL / WERKSTATTWINKEL / SQUADRE SEMPLICI / ESQUADROS DE TRABALHO / УГОЛЬНИКИ ПОВЕРОЧНЫЕ**



| COD.  | H x L (mm) | W x Z (mm) |      |   |
|-------|------------|------------|------|---|
| 65674 | 75 x 50    | 15 x 5     | 75   |   |
| 65675 | 100 x 70   | 20 x 5     | 125  |   |
| 65677 | 200 x 130  | 30 x 6     | 390  | 1 |
| 65679 | 300 x 200  | 40 x 8     | 800  |   |
| 65680 | 400 x 265  | 45 x 10    | 1850 |   |
| 65681 | 500 x 330  | 50 x 10    | 2300 |   |

DIN 875/1

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero al carbono / Carbon steel / Acier en carbone

| COD.  | H x L (mm) | W x Z (mm) |     |   |
|-------|------------|------------|-----|---|
| 65682 | 75 x 50    | 15 x 5     | 75  |   |
| 65683 | 100 x 70   | 20 x 5     | 125 |   |
| 65685 | 200 x 130  | 30 x 6     | 390 | 1 |
| 65686 | 250 x 165  | 35 x 7     | 650 |   |
| 65687 | 300 x 200  | 40 x 8     | 800 |   |

DIN 875/1

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero inoxidable / Stainless steel / Acier inoxydable

| COD.  | H x L (mm) | W x Z (mm) |      |   |
|-------|------------|------------|------|---|
| 65713 | 50 x 40    | 12 x 5     | 35   |   |
| 65714 | 75 x 50    | 15 x 5     | 60   |   |
| 65715 | 100 x 70   | 20 x 5     | 115  |   |
| 65717 | 200 x 130  | 30 x 6     | 455  | 1 |
| 65718 | 250 x 165  | 35 x 7     | 700  |   |
| 65719 | 300 x 200  | 40 x 8     | 1050 |   |

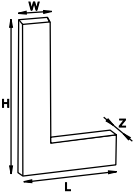
DIN 875/0

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero inoxidable templado / Hardened stainless steel / Acier inoxydable trempé



**ESCUADROS DE TRABAJO BISELADAS / BEVELED WORKSHOP SQUARE / EQUERRE DE TRAVAIL BISEAUTÉES / SCHNITTMACHERWINKEL / SQUADRA DA LAVORO SMUSSATA /  
 ESQUADROS DE TRABALHO BISELADOS / УГОЛЬНИК ПОВЕРОЧНЫЙ С ФАСКОЙ**

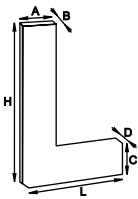


| COD.  | H x L (mm) | W x Z (mm) | g   |   |
|-------|------------|------------|-----|---|
| 65739 | 50 x 40    | 14 x 4     | 30  |   |
| 65740 | 75 x 50    | 16 x 4     | 48  |   |
| 65741 | 100 x 70   | 20 x 5     | 105 | 1 |
| 65742 | 150 x 100  | 28 x 6     | 250 |   |
| 65743 | 200 x 130  | 30 x 7     | 440 |   |

DIN 875/00

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero inoxidable templado / Hardened stainless steel / Acier inoxydable trempé



| COD.  | H x L (mm) | A x B (mm) | C x D (mm) | g  |   |
|-------|------------|------------|------------|----|---|
| 65744 | 25 x 20    |            | 6 x 3,5    | 26 |   |
| 65745 | 40 x 24    | 5 x 3,5    | 8 x 3,5    | 36 | 1 |

DIN 875/00

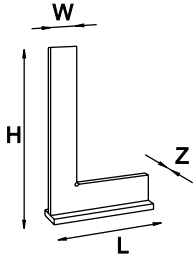
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero inoxidable templado / Hardened stainless steel / Acier inoxydable trempé



**BE SAFE...BE EFFICIENT**

**ESCUADRAS SOMBRERO / WORKSHOP SQUARE WITH BASE / EQUERRE À CHAPEAU / WERKSTATTWINKEL / SQUADRE A CAPPELLO / ESQUADROS DE TRABALHO COM CEPO / УГОЛЬНИК ПОВЕРОЧНЫЙ С ОСНОВАНИЕМ**



| COD.  | H x L (mm) | W x Z (mm) |      |   |
|-------|------------|------------|------|---|
| 65690 | 75 x 50    | 15 x 5     | 100  | 1 |
| 65691 | 100 x 70   | 20 x 5     | 180  |   |
| 65693 | 200 x 130  | 30 x 6     | 760  |   |
| 65695 | 300 x 200  | 40 x 8     | 1750 |   |
| 65696 | 400 x 265  | 45 x 10    | 2300 |   |
| 65697 | 500 x 330  | 50 x 10    | 2700 |   |

DIN 875/1

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero al carbono / Carbon steel / Acier en carbone

| COD.  | H x L (mm) | W x Z (mm) |      |   |
|-------|------------|------------|------|---|
| 65698 | 75 x 50    | 15 x 5     | 80   | 1 |
| 65699 | 100 x 70   | 20 x 5     | 130  |   |
| 65700 | 150 x 100  | 25 x 5     | 360  |   |
| 65701 | 200 x 130  | 30 x 6     | 750  |   |
| 65702 | 250 x 165  | 35 x 7     | 1150 |   |
| 65703 | 300 x 200  | 40 x 8     | 1750 |   |

DIN 875/1

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero inoxidable / Stainless steel / Acier inoxydable

| COD.  | H x L (mm) | W x Z (mm) |      |   |
|-------|------------|------------|------|---|
| 65727 | 50 x 40    | 12 x 5     | 35   | 1 |
| 65728 | 75 x 50    | 15 x 5     | 60   |   |
| 65729 | 100 x 70   | 20 x 5     | 115  |   |
| 65730 | 150 x 100  | 25 x 5     | 220  |   |
| 65731 | 200 x 130  | 30 x 6     | 450  |   |
| 65732 | 250 x 165  | 35 x 7     | 750  |   |
| 65733 | 300 x 200  | 40 x 8     | 1050 |   |

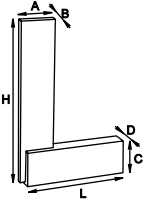
DIN 875/0

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero inoxidable templado / Hardened stainless steel / Acier inoxydable trempé



**ESCUADRA DE PRECISIÓN / PRECISION SQUARE / EQUERRE DE PRÉCISION / PRÄZISIONSWINKEL / SQUADRE DI PRECISIONE / ESQUADRO DE PRECISÃO / ПРЕЦИЗИОННЫЕ УГОЛЬНИКИ**



| COD.  | H x L (mm) | A x B (mm) | C x D (mm) |     |   |
|-------|------------|------------|------------|-----|---|
| 65746 | 50 x 40    | 16 x 2     | 14 x 10    | 70  | 1 |
| 65747 | 75 x 50    | 16 x 2     | 14 x 10    | 80  |   |
| 65748 | 100 x 70   | 20 x 3     | 18 x 10    | 130 |   |
| 65749 | 150 x 100  | 25 x 3     | 24 x 14    | 220 |   |
| 65750 | 200 x 130  | 30 x 4     | 28 x 16    | 390 |   |

DIN 875/0

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero al carbono / Carbon steel / Acier en carbone



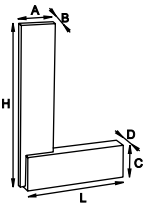
| COD.  | H x L (mm) | A x B (mm) | C x D (mm) |     |   |
|-------|------------|------------|------------|-----|---|
| 65751 | 50 x 40    | 16 x 2     | 14 x 10    | 70  | 1 |
| 65752 | 75 x 50    | 16 x 2     | 14 x 10    | 80  |   |
| 65753 | 100 x 70   | 20 x 3     | 18 x 10    | 130 |   |
| 65755 | 200 x 130  | 30 x 4     | 28 x 16    | 390 |   |

DIN 875/0

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero inoxidable / Stainless steel / Acier inoxydable

**ESCUADRA DE PRECISIÓN BISELADA / BEVELED PRECISION SQUARE / EQUERRE DE PRÉCISION BISEAUTÉE / SCHNITTMACHERWINKEL / SQUADRE DI PRECISIONE SMUSSATE / ESQUADRO DE PRECISÃO BISELADO / НАКЛОННЫЕ ПРЕЦИЗИОННЫЕ УГОЛЬНИКИ**



| COD.  | H x L (mm) | A x B (mm) | C x D (mm) |     |   |
|-------|------------|------------|------------|-----|---|
| 65761 | 50 x 40    | 16 x 2     | 14 x 10    | 32  | 1 |
| 65762 | 75 x 50    | 16 x 2     | 14 x 10    | 50  |   |
| 65763 | 100 x 70   | 20 x 3     | 18 x 12    | 105 |   |
| 65765 | 200 x 130  | 30 x 4     | 28 x 16    | 450 |   |

DIN 875/00

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero inoxidable templado / Hardened stainless steel / Acier inoxydable trempé





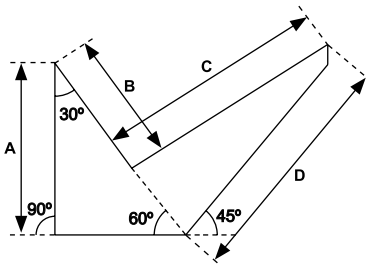
**ESCUADRAS DE ACERO INOXIDABLE / STAINLESS STEEL SQUARES / EQUESSES EN ACIER INOX / ROSTFREI WERKSTATWINKEL / SQUADRA ACCIAO INOX / ESQUADRO DE AÇO INOXIDÁVEL / УГОЛЬНИКИ ПОВЕРОЧНЫЕ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ**



| COD.  |      | Tipo / Type / Type               | Dimensiones / Dimensions / Dimensions |     |   |
|-------|------|----------------------------------|---------------------------------------|-----|---|
| 65799 |      | Lisa / Straight / Lisse          |                                       | 200 |   |
| 65800 | 45°  | Sombrero / With base / À chapeau | 150 x 100                             | 290 | 1 |
| 65801 |      | Lisa / Straight / Lisse          |                                       | 210 |   |
| 65802 | 60°  | Sombrero / With base / À chapeau | 310                                   |     |   |
| 65803 |      |                                  | 75 x 75                               | 100 |   |
| 65804 | 120° | Lisa / Straight / Lisse          | 100 x 100                             | 185 |   |
| 65805 |      |                                  | 150 x 150                             | 180 |   |
| 65806 | 135° | Sombrero / With base / À chapeau | 150 x 100                             | 310 |   |
| 65807 |      |                                  |                                       |     |   |



**ESCUADRA MULTIGRADOS DE SOMBRERO / FLANGED DOUBLE-MITRE SQUARE / EQUEBRE MULTIGRADE Á CHAPEAU / GEHRUNGSWINKEL / SQUADRA A CAPPELLO DOPPIO METRO / ESQUADRO MULTIGRAUS COM CEPLO / ДВУХКОНУСНЫЕ ПОВЕРОЧНЫЕ УГОЛЬНИКИ**



| COD.  | A (mm) | B (mm) | C (mm) | D (mm) |     |   |
|-------|--------|--------|--------|--------|-----|---|
| 65809 | 90     | 70     | 105    | 120    | 280 | 1 |
| 65810 | 110    | 85     | 125    | 140    | 430 |   |
| 65811 | 130    | 100    | 155    | 170    | 700 |   |
| 65812 | 175    | 135    | 205    | 220    | 900 |   |



**ESCUADRA FALSA / SLIDING BEVELS / FAUSSE ÉQUERRE / VERSTELLBARE WINKELMESSER / SQUADRA FALSA / SUTA / УГЛОМЕР ПОВОРОТНЫЙ**

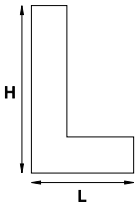
| COD.  | Hoja (mm) / Blade (mm) / Lame (mm) | Cuerpo / Body / Corp           |    |    |
|-------|------------------------------------|--------------------------------|----|----|
| 65768 | 250                                | Plástico / Plastic / Plastique | 90 | 10 |






| COD.  | Hoja (mm) / Blade (mm) / Lame (mm) | Cuerpo / Body / Corp            |  g |  |
|-------|------------------------------------|---------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 65770 | 250                                | Aluminio / Aluminum / Aluminium | 260                                                                                 | 10                                                                                 |
| 65771 | 300                                |                                 | 270                                                                                 |                                                                                    |



**ESCUADRA DE ALUMINIO / ALUMINIUM SQUARE / EQUERRE EN ALUMINIUM / ALUMIUM WINKELHAKEN / SQUADRA IN ALLUMINIO / ESQUADRO DE ALUMÍNIO / АЛЮМИНИЕВЫЙ УГОЛЬНИК**



| COD.  | H x L (mm) |  mm |  g |  |
|-------|------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 65813 | 200 x 135  |                                                                                      | 150                                                                                 |                                                                                    |
| 65815 | 300 x 165  | 0,1                                                                                  | 200                                                                                 | 5                                                                                  |
| 65816 | 400 x 200  |                                                                                      | 300                                                                                 |                                                                                    |





**EGGA** *Master*  
 ART IN INNOVATION

■ **COMPASES / DIVIDERS / COMPAS / ZIRKEL / COMPASSI / COMPASSOS / РАЗДЕЛИТЕЛИ**



■ **COMPASES PLANOS / DIVIDERS / COMPAS PLAT / ZIRKEL / COMPASSI PIATTI / COMPASSOS DE BICOS / ИЗМЕРИТЕЛЬ ДВУНОЖНЫЙ**

■ **STANDARD**

| COD.  | L (mm) |  |  |
|-------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 65605 | 150    | 55                                                                                | 3                                                                                 |
| 65606 | 200    | 90                                                                                |                                                                                   |
| 65608 | 300    | 160                                                                               |                                                                                   |
| 65610 | 500    | 490                                                                               |                                                                                   |
| 65612 | 800    | 1650                                                                              |                                                                                   |
| 65613 | 1000   | 2250                                                                              |                                                                                   |





■ **COMPÁS DE 1/4 / WING DIVIDER / COMPAS DE 1/4 / SPITZZIRKEL M. BOGEN / COMPASSO DA 1/4 / COMPASSOS DE 1/4 / ¼ ИЗМЕРИТЕЛЬ ДВУНОЖНЫЙ С НАПРАВЛЯЮЩЕЙ**

| COD.  | L (mm) |  |  |
|-------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 65614 | 150    | 160                                                                               | 6                                                                                 |
| 65615 | 200    | 180                                                                               |                                                                                   |
| 65616 | 300    | 190                                                                               |                                                                                   |
| 65617 | 300    | 210                                                                               |                                                                                   |





■ **COMPÁS DE 1/4 PORTALÁPICES / WING DIVIDER PENCIL HOLDER / COMPAS DE 1/4 Á CRAYON / SPITZZIRKEL M. BOGEN U. STIFTHALTER / COMPASSO DA 1/4 PORTAMATITE / COMPASSOS DE 1/4 PORTA-LÁPIS / ¼ ИЗМЕРИТЕЛЬ ДВУНОЖНЫЙ С НАПРАВЛЯЮЩЕЙ И ДЕРЖАТЕЛЕМ КАРАНДАША**

| COD.  | L (mm) |  |  |
|-------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 65618 | 150    | 160                                                                                 | 6                                                                                   |
| 65619 | 200    | 180                                                                                 |                                                                                     |
| 65621 | 300    | 210                                                                                 |                                                                                     |





■ **COMPÁS DE INTERIORES / INSIDE CALIPER / COMPAS INTÉRIEUR / LOCHZIRKEL / COMPASSI PERE INTERNI / COMPASSOS DE INTERIORES / НУТРИМЕТР**

| COD.  | L (mm) |  |  |
|-------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 65622 | 150    | 60                                                                                  | 3                                                                                   |
| 65623 | 200    | 115                                                                                 |                                                                                     |
| 65625 | 300    | 220                                                                                 |                                                                                     |
| 65626 | 400    | 450                                                                                 |                                                                                     |





■ **COMPÁS DE EXTERIORES / OUTSIDE CALIPER / COMPAS EXTÉRIEUR / GREIFZIRKEL / COMPASSI PER ESTERNI / COMPASSOS DE EXTERIORES / НАРУЖНЫЙ ИЗМЕРИТЕЛЬ**

| COD.  | L (mm) |  |  |
|-------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 65627 | 150    | 85                                                                                  | 3                                                                                   |
| 65628 | 200    | 135                                                                                 |                                                                                     |
| 65632 | 500    | 700                                                                                 |                                                                                     |
| 65633 | 600    | 1350                                                                                |                                                                                     |
| 65634 | 800    | 2150                                                                                |                                                                                     |
| 65635 | 1000   | 3050                                                                                |                                                                                     |





**COMPASSES DE MUELLE / SPRING DIVIDERS / COMPAS POUR RESSORTS / SCHRAUBENZIR-KEL / COMPASSI A MOLLA / COMPASSOS DE MOLA / ИЗМЕРИТЕЛЬ ДВУНОЖНЫЙ ПОДПРУЖИНЕННЫЙ**

**STANDARD**

| COD.  | L (mm) |  |  |
|-------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 65636 | 100    | 70                                                                                | 6                                                                                 |
| 65637 | 125    | 80                                                                                |                                                                                   |
| 65638 | 150    | 100                                                                               |                                                                                   |
| 65639 | 200    | 145                                                                               |                                                                                   |
| 65641 | 300    | 230                                                                               |                                                                                   |
| 65642 | 400    | 260                                                                               |                                                                                   |
| 65643 | 500    | 310                                                                               |                                                                                   |





**COMPÁS DE PUNTAS INTERCAMBIABLES / WITH REPLACEABLE NEEDLES / COMPAS Á POINTES INTERCHANGEABLES / MIT ERSATZ NADELN / COMPASSI CON PUNTA INTERCAMBIABILE / COMPASSOS DE PONTAS INTERMUTÁVEIS / ИЗМЕРИТЕЛЬ ДВУНОЖНЫЙ ПОДПРУЖИНЕННЫЙ СО СМЕННЫМИ ИГЛАМИ**

| COD.  | L (mm) |  |  | Punta / Needle / Pointe |
|-------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------|
| 65659 | 100    | 70                                                                                | 6                                                                                 | 65667                   |
| 65661 | 150    | 100                                                                               |                                                                                   |                         |
| 65662 | 200    | 145                                                                               |                                                                                   |                         |
| 65664 | 300    | 210                                                                               |                                                                                   |                         |





**COMPÁS DE INTERIORES / INSIDE CALIPER / COMPAS INTÉRIEUR / LOCHZIRKEL / COMPASSI PERE INTERNI / COMPASSOS DE INTERIORES / ВУТРИМЕТР**

| COD.  | L (mm) |  |  |
|-------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 65644 | 100    | 55                                                                                  | 6                                                                                   |
| 65645 | 150    | 85                                                                                  |                                                                                     |
| 65647 | 200    | 160                                                                                 |                                                                                     |
| 65649 | 300    | 220                                                                                 |                                                                                     |



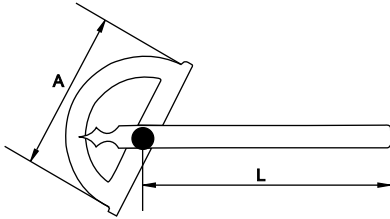
**COMPÁS DE EXTERIORES / OUTSIDE CALIPER / COMPAS EXTÉRIEUR / GREIFZIRKEL / COMPASSI PER ESTERNI / COMPASSOS DE EXTERIORES / НАРУЖНЫЙ ИЗМЕРИТЕЛЬ**

| COD.  | L (mm) |  |  |
|-------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 65651 | 100    | 60                                                                                  | 6                                                                                   |
| 65653 | 150    | 80                                                                                  |                                                                                     |
| 65654 | 200    | 150                                                                                 |                                                                                     |
| 65656 | 300    | 220                                                                                 |                                                                                     |
| 65658 | 500    | 370                                                                                 |                                                                                     |



■ **GONIÓMETRO / PROCTOR / GONIOMÈTRE / WINKELPRÜFLEHRE / GONIOMETRO / GONIÓMETRO / ТРАНСПОРТИР**

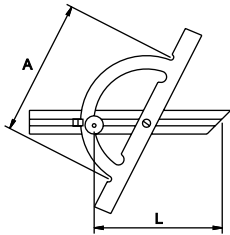
■ **GONIÓMETRO DE ACERO INOXIDABLE / STAINLESS STEEL PROCTOR / GONIOMÈTRE EN ACIER INOX / WINKELPRÜFLEHRE ROSTFREI STAHL / GONIOMETRO IN ACCIAIO INOX / GONIÓMETRO DE AÇO INOXIDÁVEL / ТРАНСПОРТИР ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ**



| COD.  |   | A (mm) | L (mm) | Precisión / Accuracy /<br>Précision |      |   |
|-------|---|--------|--------|-------------------------------------|------|---|
| 65818 |   | 80     | 120    |                                     | 85   |   |
| 65819 |   | 120    | 150    |                                     | 140  |   |
| 65820 | 1 | 150    | 200    | 1°                                  | 270  | 1 |
| 65821 |   | 200    | 300    |                                     | 450  |   |
| 65822 |   | 300    | 500    |                                     | 1700 |   |



■ **GONIÓMETRO CON HOJA DESLIZANTE / PROCTOR WITH MOVEABLE BLADE / GONIOMÈTRE AVEC LAME AMOVIBLE / WINKELPRÜFLEHRE MIT VERSTELLUNG / GONIOMETRO CON LAME MOVIBILI / GONIÓMETRO COM FOLHA DESLIZANTE / ТРАНСПОРТИР С ПОДВИЖНОЙ ЛИНЕЙКОЙ**



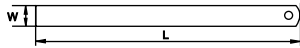
| COD.  |   | A (mm) | L (mm) | Precisión / Accuracy /<br>Précision |     |   |
|-------|---|--------|--------|-------------------------------------|-----|---|
| 65823 |   | 100    | 150    |                                     | 250 |   |
| 65824 | 1 | 150    | 300    | 1°                                  | 360 | 1 |
| 65825 |   | 200    | 400    |                                     | 480 |   |






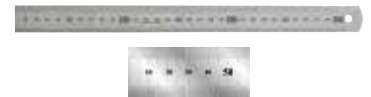
**BE SAFE...BE EFFICIENT**

**REGLAS SEMI-FLEXIBLES DE ACERO INOXIDABLE / STAINLESS STEEL SEMI-FLEXIBLE RULERS / RÈGLES SEMI-FLEXIBLE EN ACIER INOX / FLEXIBLES LINEAL AUS EDELSTAHL / RIGA SEMIFLESSIBILE IN ACCIAIO INOX / RÉGUA SEMI-FLÉXIVEL EM AÇO INOX / ГИБКИЕ ЛИНЕЙКИ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ**

**GRADUACIÓN EN MILÍMETROS / MILIMETRIC GRADUATION / GRADUATION EN MILLIMÈTRE / MM-TEILUNGEN / GRADUAZIONE IN MILLIMETRI / GRADUAÇÃO EM MILIMETROS / МЕТРИЧЕСКАЯ ШКАЛА**



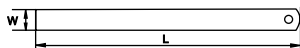
| COD.  | L x W (mm) |  mm |  g |  |
|-------|------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 65772 | 150 x 18   | 0,8                                                                                  | 10                                                                                  | 6                                                                                  |
| 65832 | 200 x 18   | 0,8                                                                                  | 12                                                                                  |                                                                                    |
| 65774 | 300 x 25   | 1,0                                                                                  | 20                                                                                  |                                                                                    |
| 65834 | 500 x 30   | 1,2                                                                                  | 40                                                                                  |                                                                                    |
| 65836 | 600 x 30   | 1,2                                                                                  | 50                                                                                  |                                                                                    |
| 65838 | 1000 x 32  | 1,5                                                                                  | 100                                                                                 |                                                                                    |
| 65840 | 1200 x 32  | 1,8                                                                                  | 125                                                                                 |                                                                                    |
| 65842 | 1500 x 38  | 1,5                                                                                  | 150                                                                                 |                                                                                    |
| 65844 | 2000 x 32  | 1,0                                                                                  | 200                                                                                 |                                                                                    |






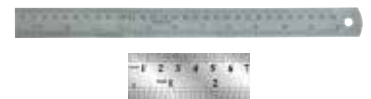
**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Resolución / Resolution / Résolution 1 mm

**GRADUACIÓN EN MILÍMETROS Y PULGADAS / GRADUATION IN MILIMETERS AND INCHES / GRADUATION EN MM ET EN POUCE / INCH UND MM TEILUNGEN / GRADUAZIONE IN MM E IN POLLICI / GRADUAÇÃO EM MILIMETROS E POLEGADAS / МЕТРИЧЕСКАЯ И ДЮЙМОВАЯ ШКАЛА**




| COD.  | L x W (mm) |  mm |  g |  |
|-------|------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 65831 | 150 x 18   | 0,8                                                                                    | 10                                                                                    | 6                                                                                    |
| 65773 | 200 x 18   | 0,8                                                                                    | 12                                                                                    |                                                                                      |
| 65833 | 300 x 25   | 1,0                                                                                    | 20                                                                                    |                                                                                      |
| 65835 | 500 x 30   | 1,2                                                                                    | 40                                                                                    |                                                                                      |
| 65837 | 600 x 30   | 1,2                                                                                    | 50                                                                                    |                                                                                      |
| 65839 | 1000 x 32  | 1,5                                                                                    | 100                                                                                   |                                                                                      |
| 65841 | 1200 x 32  | 1,5                                                                                    | 125                                                                                   |                                                                                      |
| 65843 | 1500 x 32  | 1,0                                                                                    | 150                                                                                   |                                                                                      |
| 65845 | 2000 x 38  | 1,8                                                                                    | 200                                                                                   |                                                                                      |



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Resolución / Resolution / Résolution 1 mm

**REGLAS DE MADERA / WOODEN RULER / RÈGLES EN BOIS / GLIEDERMASSTÄBE / RIGA IN LEGNO / RÉGUAS DE MADEIRA / ДЕРЕВЯННАЯ ЛИНЕЙКА**

| COD.  |  mm | L (m) | Color / Colour / Couleur                     |  g |  |
|-------|----------------------------------------------------------------------------------------|-------|----------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 65826 | 1/10                                                                                   | 2     | Natural / Natural / Naturel                  | 150                                                                                   | 6                                                                                     |
| 65827 |                                                                                        |       | Blanco / White / Blanc                       |                                                                                       |                                                                                       |
| 65828 |                                                                                        |       | Amarillo / Yellow / Jaune                    |                                                                                       |                                                                                       |
| 65829 |                                                                                        |       | Blanco-Amarillo / White-Yellow / Blanc-jaune |                                                                                       |                                                                                       |



■ **GALGAS / GAUGES / JAUGES / FÜHLERLEHRE / GALGAS / GALGAS / ЩУПЫ**

■ **GALGAS DE ESPORES / FEELER GAUGE / JAUGES D'ÉPAISSEUR / FÜHLERLEHREFÄCHER / GALGAS DE ESPORES / APALPA-FOLGAS / НАБОР ЩУПОВ В КОРПУСЕ**

■ **MM / INCH**

| COD.  | N.º Hojas / No. Blades / Nro. Lames | Rango (mm) / Range (mm) / Rang (mm)                                                        | Rango (inch) / Range (inch) / Rang (inch)                                                                                                   | L (mm)     | g | Icon |
|-------|-------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------------|---|------|
| 65550 | 8                                   | 0,05-0,1-0,15-0,2-0,25-0,3-0,4-0,5                                                         | 0,002"-0,004"-0,006"-0,008"-0,010"-0,012"-0,016"-0,020"                                                                                     | 80         |   |      |
| 65552 | 20                                  | 0,05-0,1-0,15-0,2-0,25-0,3-0,35-0,4-0,45-0,5-0,55-0,6-0,65-0,7-0,75-0,8-0,85-0,9-0,95-1,00 | 0,002"-0,004"-0,006"-0,008"-0,010"-0,012"-0,014"-0,016"-0,018"-0,020"-0,022"-0,024"-0,026"-0,028"-0,030"-0,032"-0,034"-0,036"-0,038"-0,040" | 150<br>125 |   |      |
| 65553 | 8                                   | 0,05-0,1-0,15-0,2-0,25-0,3-0,4-0,5                                                         | 0,002"-0,004"-0,006"-0,008"-0,010"-0,012"-0,016"-0,020"                                                                                     | 70         |   |      |
| 65554 | 13                                  | 0,05-0,1-0,15-0,2-0,25-0,3-0,4-0,5-0,6-0,7-0,8-0,9-1,00                                    | 0,002"-0,004"-0,006"-0,008"-0,010"-0,012"-0,016"-0,020"-0,024"-0,028"-0,032"-0,036"-0,04"                                                   | 200<br>90  |   |      |
| 65555 | 20                                  | 0,05-0,1-0,15-0,2-0,25-0,3-0,35-0,4-0,45-0,5-0,55-0,6-0,65-0,7-0,75-0,8-0,85-0,9-0,95-1,00 | 0,002"-0,004"-0,006"-0,008"-0,010"-0,012"-0,014"-0,016"-0,018"-0,020"-0,022"-0,024"-0,026"-0,028"-0,030"-0,032"-0,034"-0,036"-0,038"-0,040" | 155        |   | 6    |
| 65556 | 8                                   | 0,05-0,1-0,15-0,2-0,25-0,3-0,4-0,5                                                         | 0,002"-0,004"-0,006"-0,008"-0,010"-0,012"-0,016"-0,020"                                                                                     | 100        |   |      |
| 65557 | 13                                  | 0,05-0,1-0,15-0,2-0,25-0,3-0,4-0,5-0,6-0,7-0,8-0,9-1,00                                    | 0,002"-0,004"-0,006"-0,008"-0,010"-0,012"-0,016"-0,020"-0,024"-0,028"-0,032"-0,036"-0,04"                                                   | 300<br>175 |   |      |
| 65558 | 20                                  | 0,05-0,1-0,15-0,2-0,25-0,3-0,35-0,4-0,45-0,5-0,55-0,6-0,65-0,7-0,75-0,8-0,85-0,9-0,95-1,00 | 0,002"-0,004"-0,006"-0,008"-0,010"-0,012"-0,014"-0,016"-0,018"-0,020"-0,022"-0,024"-0,026"-0,028"-0,030"-0,032"-0,034"-0,036"-0,038"-0,040" | 300        |   |      |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero templado / Hardened steel / Acier endureci

■ **GALGAS DE ESPORES DE PRECISIÓN / PRECISION FEELER GAUGE / JAUGES D'ÉPAISSEUR DE PRÉCISION / PRÄZISION FÜHLERLEHREFÄCHER / SPESSIMETRI DI PRECISIONE / APALPA FOLGAS DE PRECISÃO / СВЕРХТОЧНЫЕ ЩУПЫ В КОРПУСЕ**

■ **MM / INCH**

| COD.  | N.º Hojas / No. Blades / Nro. Lames | Rango (mm) / Range (mm) / Rang (mm)                                                                                                                     | Rango (inch) / Range (inch) / Rang (inch)                                                                                                                                                               | L (mm)     | g | Icon |
|-------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---|------|
| 65559 | 8                                   | 0,03-0,04-0,05-0,06-0,07-0,08-0,09-0,1                                                                                                                  | 0,0012"-0,0016"-0,002"-0,0024"-0,0028"-0,0032"-0,0036"-0,004"                                                                                                                                           | 20         |   |      |
| 65560 | 8                                   | 0,05-0,1-0,15-0,2-0,25-0,3-0,4-0,5                                                                                                                      | 0,002"-0,004"-0,006"-0,008"-0,010"-0,012"-0,016"-0,02"                                                                                                                                                  |            |   |      |
| 65562 | 10                                  | 0,1-0,2-0,3-0,4-0,5-0,6-0,7-0,8-0,9-1,00                                                                                                                | 0,004"-0,008"-0,012"-0,016"-0,02"-0,024"-0,028"-0,032"-0,036"-0,04"                                                                                                                                     | 30         |   |      |
| 65565 | 18                                  | 0,05-0,06-0,07-0,08-0,09-0,1-0,15-0,2-0,25-0,3-0,35-0,4-0,5-0,6-0,7-0,8-0,9-1,0                                                                         | 0,002"-0,0024"-0,0028"-0,0032"-0,0036"-0,004"-0,006"-0,008"-0,010"-0,012"-0,014"-0,016"-0,02"-0,024"-0,028"-0,032"-0,036"-0,04"                                                                         | 80         |   |      |
| 65568 | 21                                  | 0,10-0,12-0,14-0,16-0,18-0,2-0,22-0,24-0,26-0,28-0,3-0,32-0,34-0,36-0,38-0,4-0,42-0,44-0,46-0,48-0,5                                                    | 0,004"-0,0048"-0,0056"-0,0064"-0,0072"-0,0080"-0,0088"-0,0096"-0,0104"-0,0112"-0,0120"-0,0128"-0,0136"-0,0144"-0,0152"-0,0160"-0,0168"-0,0176"-0,0184"-0,0192"-0,02"                                    | 100<br>100 |   | 6    |
| 65569 | 21                                  | 0,05-0,1-0,2-0,3-0,4-0,5-0,6-0,7-0,8-0,9-1,00-1,1-1,2-1,3-1,4-1,5-1,6-1,7-1,8-1,9-2,00                                                                  | 0,002"-0,004"-0,008"-0,012"-0,016"-0,02"-0,024"-0,028"-0,032"-0,036"-0,040"-0,044"-0,048"-0,052"-0,056"-0,060"-0,064"-0,068"-0,072"-0,076"-0,080"                                                       |            |   |      |
| 65570 | 32                                  | 0,03-0,04-0,05-0,06-0,07-0,075-0,08-0,09-0,1-0,12-0,15-0,18-0,2-0,22-0,25-0,28-0,3-0,32-0,35-0,4-0,45-0,5-0,55-0,6-0,65-0,7-0,75-0,8-0,85-0,9-0,95-1,00 | 0,0012"-0,0016"-0,002"-0,0024"-0,0028"-0,0032"-0,0036"-0,004"-0,0048"-0,006"-0,0072"-0,008"-0,0088"-0,010"-0,0112"-0,0120"-0,0128"-0,0136"-0,0144"-0,0152"-0,016"-0,0168"-0,0176"-0,0184"-0,0192"-0,02" | 210        |   |      |





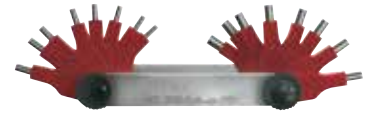
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero templado / Hardened steel / Acier endureci

Con tuerca de bloqueo / With lock nut / Avec écrou auto bloquant



**GALGAS PARA TOBERAS / NOZZLE GAUGES / JAUGES DE TUYERE / DÜSENLEHRE / GALGAS PARA TOBERAS / GALGA PARA DIAMETROS INTERIORES / ЩУПЫ ДЛЯ ФОРСУНОК**

| COD.  | N.º Hojas / No. Blades / Nro. Lames | Rango (mm) / Range (mm) / Rang (mm)                                                                 |  |  |
|-------|-------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 65776 | 20                                  | 0,45-0,50-0,55-0,60-0,65-0,70-0,75-0,80-0,85-0,90-0,95-1,00-1,05-1,10-1,15-1,20-1,25-1,30-1,40-1,50 |                                                                                   |                                                                                    |
| 65777 |                                     | 1,50-1,60-1,70-1,80-1,90-2,00-2,10-2,20-2,30-2,40-2,50-2,60-2,70-2,80-2,90-3,00                     | 20                                                                                | 6                                                                                  |
| 65778 | 16                                  | 3,00-3,10-3,20-3,30-3,40-3,50-3,60-3,70-3,80-3,90-4,0-4,10-4,20-4,30-4,40-4,50                      |                                                                                   |                                                                                    |
| 65779 |                                     | 4,50-4,60-4,70-4,80-4,90-5,00-5,10-5,20-5,30-5,40-5,50-5,60-5,70-5,80-5,90-6,00                     |                                                                                   |                                                                                    |



**GALGAS PARA RADIOS / RADIUS GAUGES / JAUGES POUR RADIOS / RADIENSCHABLONEN / GALGAS PARA RADIOS / MEDIDOR DE RAIOS / ЩУПЫ ДЛЯ РАДИУСОВ**

**MM**



| COD.  | N.º Hojas / No. Blades / Nro. Lames | Rango (mm) / Range (mm) / Rang (mm)                        |  |  |
|-------|-------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 65578 | 17                                  | 1-1,25-1,5-1,75-2-2,25-2,5-2,75-3-3,5-4-4,5-5-5,5-6-6,5-7  | 65                                                                                  |                                                                                     |
| 65579 | 16                                  | 7,5-8-8,5-9-9,5-10-10,5-11-11,5-12-12,5-13-13,5-14-14,5-15 | 100                                                                                 | 6                                                                                   |
| 65580 | 15                                  | 15,5-16-16,5-17-17,5-18-18,5-19-19,5-20-21-22-23-24-25     | 110                                                                                 |                                                                                     |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero templado / Hardened steel / Acier endureci

**INCH**

| COD.  | N.º Hojas / No. Blades / Nro. Lames | Rango (inch) / Range (inch) / Rang (inch)                                                                |  |  |
|-------|-------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 65581 | 15                                  | 1/32"-3/64"-1/16"-5/64"-3/32"-7/64"-1/8"-9/64"-5/32"-11/64"-3/16"-13/64"-7/32"-16/64"-1/4"               | 110                                                                                 |                                                                                      |
| 65582 |                                     | 17/64"-9/32"-19/64"-5/16"-21/64"-11/32"-23/64"-3/8"-26/64"-13/32"-27/64"-7/16"-29/64"-15/32"-31/64"-1/2" |                                                                                     | 6                                                                                    |
| 65583 | 16                                  | 17/32"-9/16"-19/32"-5/8"-21/32"-11/16"-23/32"-3/4"-25/32"-13/16"-27/32"-7/8"-29/32"-15/16"-31/32"-1"     | 100                                                                                 |                                                                                      |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero templado / Hardened steel / Acier endureci

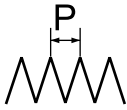
**GALGAS PARA ÁNGULOS / ANGLE GAUGES / JAUGE D'ANGLE / WINKELMESSER / GALGAS PARA ANGULOS / MEDIDOR DE ÂNGULOS / УГЛОВЫЕ ЩУПЫ**

| COD.  | N.º Hojas / No. Blades / Nro. Lames | Rango / Range / Plage                                                  |  |  |
|-------|-------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 65584 | 20                                  | 1°-2°-3°-4°-5°-6°-7°-8°-9°-10°-12°-14°-16°-18°-20°-25°-30°-35°-40°-45° | 110                                                                                   | 6                                                                                     |





■ GALGAS PARA ROSCAS / THREAD PITCH GAUGES / JAUGE POUR FILETAGE / GEWINDESCHABLONEN / GALGAS PARA ROSCAS / CONTA FIOS DE ROSCA / ИЗМЕРИТЕЛИ РЕЗЬБЫ



MÉTRICA (ISO) 60°  
 &  
 WHITWORTH 55°

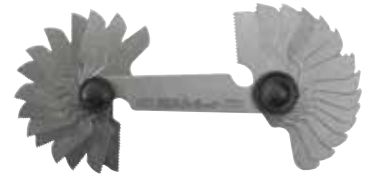
| COD.  | N.º Hojas / No. Blades / Nro. Lames | P (mm)                                                                                                          |    |   |
|-------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------|----|---|
| 65571 | 24                                  | 0,25-0,30-0,35-0,40-0,45-0,5-0,6-<br>0,7-0,75-0,8-0,9-1,0-1,25-1,5-1,75-<br>2,0-2,5-3,0-3,5-4,0-4,5-5,0-5,5-6,0 | 40 | 6 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero templado / Hardened steel / Acier endureci

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Tipo de rosca / Screwtype / Type de filetage Métrica 60° / Metric 60° / Métrique 60°



| COD.  | N.º Hojas / No. Blades / Nro. Lames | TPI                                                                                                               |    |   |
|-------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------|----|---|
| 65572 | 28                                  | 4-4,1/2-5-6-7-8-9-10-11-12-13-14-<br>16-18-19-20-22-24-25-26-28-30-<br>32-36-40-48-60-62                          | 42 |   |
| 65574 | 30                                  | 4,0-4,5-5,0-5,5-6,0-7,0-8,0-9,0-<br>10-11-11,5-12-13-14-15-16-18-<br>20-22-24-26-27-28-30-32-34-36-<br>38-40-42   | 50 | 6 |
| 65575 |                                     | 6,0-7,0-8,0-9,0-10-11-11,5-12-13-<br>14-15-16-18-20-22-24-26-27-28-<br>30-32-34-36-38-40-42-44-46-48-<br>50-56-60 |    |   |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero templado / Hardened steel / Acier endureci

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Tipo de rosca / Screwtype / Type de filetage Whitworth 55°

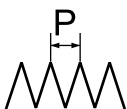
| COD.  | N.º Hojas / No. Blades / Nro. Lames | P (mm)                                                                                                                                                         | TPI                                                                                                                                          |     |   |
|-------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----|---|
| 65561 | 52                                  | 0,25 - 0,30 - 0,35 - 0,40 - 0,45 - 0,5 - 0,6<br>- 0,7 - 0,75 - 0,8 - 0,9 - 1,0 - 1,25 - 1,5 -<br>1,75 - 2,0 - 2,5 - 3,0 - 3,5 - 4,0 - 4,5 - 5,0<br>- 5,5 - 6,0 | 4 - 4,1/2 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13<br>- 14 - 16 - 18 - 19 - 20 - 22 - 24 - 25 - 26 -<br>28 - 30 - 32 - 36 - 40 - 48 - 60 - 62 | 100 | 6 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero templado / Hardened steel / Acier endureci

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Tipo de rosca / Screwtype / Type de filetage Métrica 60° / Whitworth 55° / Metric 60° / Whitworth 55° /  
Métrique 60° / Whitworth 55°



ACME (DIN) 29°  
 &  
 ACME 30°

| COD.  | N.º Hojas / No. Blades / Nro. Lames | P (mm)                      |     |   |
|-------|-------------------------------------|-----------------------------|-----|---|
| 65576 | 12                                  | 2-3-4-5-6-7-8-9-10-12-16-20 | 250 | 6 |





**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero templado / *Hardened steel* / Acier endurci

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Tipo de rosca / *Screwtype* / Type de filetage ACME 30°

| COD.         | N.º Hojas / <i>No. Blades</i> / Nro. Lames | TPI                                                   |  |  |
|--------------|--------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>65577</b> | 16                                         | 1-1,1/3-1,1/2-1,3/4-2-2,1/2-3-3,1/2-4-5-6-7-8-9-10-12 | 30                                                                                  | 6                                                                                   |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Acero templado / *Hardened steel* / Acier endurci

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Tipo de rosca / *Screwtype* / Type de filetage ACME (DIN) 29°

**AGUJAS DE TRAZAR / SCRIBER / POINTE À TRACER / REISSNADEL / PUNTA PER TRACCIARE / RISCADORES DE TRAÇAR / ШТИХЕЛЬ**

| COD.         | L (mm) |  |  |  |
|--------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>65602</b> | 175    | Moletado / <i>Knurled</i> / Moletée                                               | 10                                                                                | 6                                                                                  |

| COD.         | L (mm) |  |  |  |
|--------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>65603</b> | 250    | Moletado / <i>Knurled</i> / Moletée                                               | 15                                                                                | 6                                                                                  |

| COD.         | L (mm) |  |  |  |
|--------------|--------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>65604</b> | 230    | Moletado / <i>Knurled</i> / Moletée                                                | 20                                                                                 | 6                                                                                   |



**AGUJA DE TRAZAR DE BOLSILLO / POCKET SCRIBER / POINTE À TRACER DE POCHE / TASCHEN-REISSNADEL / PUNTA PER TRACCIARE TASCABILE / RISCADORES DE TRAÇAR DE BOLSO / КАРМАННЫЙ ШТИХЕЛЬ**

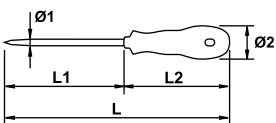
| COD.         | L (mm) |  |  |  |
|--------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>65767</b> | 150    | 6,0                                                                                 | 6,0                                                                                 | 6                                                                                    |




**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Punta de carburo de tungsteno / *Tungsten carbide point* / Pointe de carbure de tungstène

**PUNZÓN / AWL / POINÇON / AHLE / PUNZONE / PUÑÃO / ШИЛО**




| COD.         | Ø 1 (mm) | L1 (mm) | L2 (mm) | L (mm) | Ø 2 (mm) |  |  |
|--------------|----------|---------|---------|--------|----------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>65783</b> | 6        | 145     | 115     | 260    | 36       | 100                                                                                 | 6                                                                                     |



■ **SET DE MEDICIÓN / MEASUREMENT SET / SET DE MESURE / MASSSATZ / ASSORTIMENTO DI MISURA / CONJUNTO DE MEDIÇÃO / НАБОР ИЗМЕРИТЕЛЬНЫЙ**



| COD.         | PCS. |  |
|--------------|------|-----------------------------------------------------------------------------------|
| <b>65782</b> | 4    | 550                                                                               |



  

| COD.  | PCS. | Descripción / Description / Description                    |                     |
|-------|------|------------------------------------------------------------|---------------------|
| 65605 |      | Compás plano / Divider                                     | 150 mm              |
| 65675 |      | Escuadra / Square                                          | 100 x 70, DIN 875/1 |
| 65603 |      | Aguja de trazar / Scriber                                  | 250 mm              |
| 65772 |      | Regla flexible inoxidable / Flexible stainless steel ruler | 150 mm              |






■ **RECOGEDORES TELESCÓPICOS / TELESCOPIC JOINT PICK UP / DOIGT MAGNETIQUE TELESCOPIQUE / TELESKOP MAGNETHEBER / TELESCOPIO PRENSILE / RECOLHEDORES TELESCÓPICOS / ТЕЛЕКОПИЧЕСКИЙ МАГНИТ**

■ **ARTICULADO / JOINT / ARTICULE / HANDMAGNETHEBER / SNODATO / ARTICULADO / СОЕДИНЕНИЕ**

| COD.         | Max. L (mm) | CAP. (kg) |  |  |
|--------------|-------------|-----------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>65588</b> | 510         | 0,45      | Plástico / Plastic / Plastique                                                     | 20                                                                                  |
| <b>65589</b> | 658         | 2,25      | Plástico / Plastic / Plastique                                                     | 20                                                                                  |
| <b>65590</b> | 475         | 0,45      | Pen clip                                                                           | 20                                                                                  |





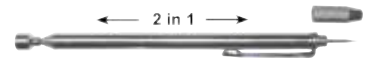
■ **CON CLIP DE BOLSILLO / POCKET CLIP / DE POCHE À CLIPS / ANSTECKCLIP / CON CLIP TASCABILE / COM CLIP DE BOLSO / КАРМАННЫЙ**

| COD.         |  | Max. L (mm) | CAP. (kg) |  |  |
|--------------|-------------------------------------------------------------------------------------|-------------|-----------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>65596</b> | 7                                                                                   | 635         | 0,63      | Negro / Black / Noir                                                                | 6                                                                                     |
| <b>65597</b> | 9                                                                                   | 535         | 0,85      |                                                                                     |                                                                                       |
| <b>65598</b> |                                                                                     | 610         | 1,2       |                                                                                     |                                                                                       |
| <b>65599</b> | 10                                                                                  |             | 2,6       |                                                                                     |                                                                                       |
| <b>65600</b> |                                                                                     | 615         | 3,1       |                                                                                     |                                                                                       |

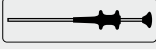



■ **RECOGEDOR TELESCÓPICO Y AGUJA DE DIBUJAR (2 IN 1) / TELESCOPIC JOINT PICK UP AND POCKET SCRIBER (2 IN 1) / DOIGT MAGNETIQUE TELESCOPIQUE A TRACER / TELESKOP MAGNETHEBER UND REISSNADEL, TASCHMODELL (2 IN 1) / PRENSILE TELESCOPICO E PUNTA PER TRACCIARA DUE IN UNO / RECOLHEDOR TELESCÓPICO E RISCADOR DE TRAÇAR (2 EM 1) / КАРМАННЫЕ ТЕЛЕКОПИЧЕСКИЙ МАГНИТ И ШТИХЕЛЬ (2 В 1)**

| COD.         |  | Max. L (mm) | CAP. (kg) |  |
|--------------|-------------------------------------------------------------------------------------|-------------|-----------|--------------------------------------------------------------------------------------|
| <b>65601</b> | 7                                                                                   | 650         | 0,45      | 6                                                                                    |



**RECOGEDOR DE GARRAS FLEXIBLE (CON IMÁN Y LED) / FLEXIBLE CLAW PICK UP TOOL (MAGNETIC + LED) / DOIGT MAGNÉTIQUE-FLEXIBLE À GRIFES (AVEC AIMANT ET DIODE LUMINEUSE) / FLEXIBLE CLAW-AUFNAHMEWERKZEUG (MAGNETIC + LED) / RACCOGLITORE CON ARTIGLI FLESSIBILE (CON MAGNETE E LED) / RECOLHEDOR DE GARRAS FLÉXIVEL (COM IMÁN E LED) / ЗАХВАТ МАГНИТНЫЙ С LED-ПОДСВЕТКОЙ**

| COD.         | L (inch) | CAP. (kg) |  |  |
|--------------|----------|-----------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>58915</b> | 24       | 1         | PP-TPR / PP-TPR                                                                   | 1                                                                                  |



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                          |           |
|----------------------------------------------------------|-----------|
| Luminosidad del led / Led brightness / Luminosité du led | 10500 MCD |
|----------------------------------------------------------|-----------|





**ESPEJOS DE INSPECCIÓN TELESCÓPICA ARTICULADOS / TELESCOPIC JOINT INSPECTION MIRROR / MIROIR D'INSPECTION TELESCOPIQUE / TELESKOPISCHE SUCHSPIEGEL / TELESCOPIO SNODATO PER ISPEZIONI A SPECCHIO / ESPELHOS DE INSPECÇÃO TELESCÓPICOS ARTICULADOS / ТЕЛЕСКОПИЧЕСКОЕ ПОВОРОТНОЕ ЗЕРКАЛО**

| COD.         | L (mm) |  |  |  |  |
|--------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>65585</b> | 550    | 3,5 x 2"                                                                          | Plástico / Plastic / Plastique                                                    | 45                                                                                | 6                                                                                   |



| COD.         | L (mm) |  |  |  |  |
|--------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>65586</b> | 660    | Ø 2"                                                                              | Plástico / Plastic / Plastique                                                    | 65                                                                                | 6                                                                                   |

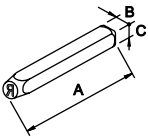



| COD.         | L (mm) |  |  |  |  |
|--------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>65587</b> | 502    | Ø 1,25"                                                                           | Pen clip                                                                          | 55                                                                                | 6                                                                                   |



**JUEGOS DE GOLPE / PUNCHES / JEUX DE CLÉS À CHOC / DURCHSCHLÄGE / PUNZONI / JOGOS DE PANCADA / МЕТЧИКИ**

**LETRAS / LETTERS / LETTRES / BUCHSTABEN / LETTERE / LETRAS / БУКВЫ**

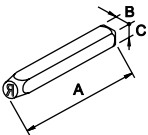



| COD.         | Altura (mm) / Height (mm) / Hauteur (mm) | A (mm) | B (mm) | C (mm) |  |
|--------------|------------------------------------------|--------|--------|--------|---------------------------------------------------------------------------------------|
| <b>65847</b> | 2                                        | 60     | 6      | 6      | 650                                                                                   |
| <b>65849</b> | 4                                        | 60     | 6      | 6      | 680                                                                                   |
| <b>65851</b> | 6                                        | 65     | 8      | 8      | 1100                                                                                  |

DIN 1451



**NÚMEROS / NUMBERS / CHIFFRES / NUMMER / NUMERI / NÚMEROS / ЦИФРЫ**



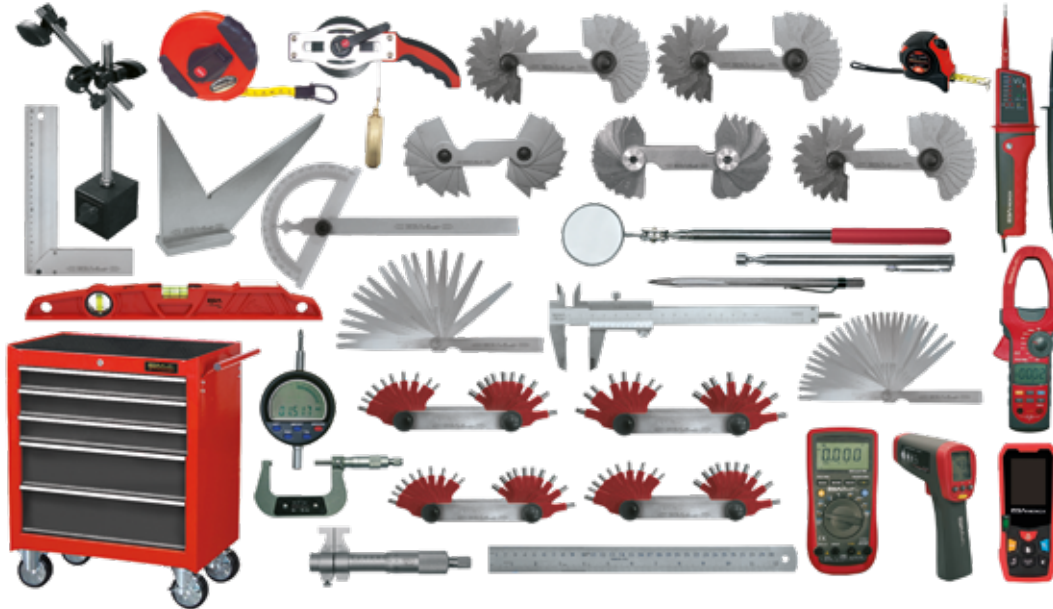
| COD.         | Altura (mm) / Height (mm) / Hauteur (mm) | A (mm) | B (mm) | C (mm) |  |
|--------------|------------------------------------------|--------|--------|--------|---------------------------------------------------------------------------------------|
| <b>65852</b> | 2                                        | 60     | 6      | 6      | 210                                                                                   |
| <b>65854</b> | 4                                        | 60     | 6      | 6      | 230                                                                                   |
| <b>65856</b> | 6                                        | 65     | 8      | 8      | 400                                                                                   |

DIN 1451



■ **JUEGO MEDICIÓN / MEASURING SET / JEU DE MESURE / MESSUNG SATZ / SET DI MISURAZIONE / JOGO DE MEDIÇÃO / НАБОР МЕРИТЕЛЬНЫХ ИНСТРУМЕНТОВ**

■ 33 PCS.



| COD.  | PCS. |       |   |    |
|-------|------|-------|---|----|
| 55812 | 33   | 51674 | ● | 51 |

| PCS. | COD. PCS. | Descripción / Description / Description                               |                                          |                    |
|------|-----------|-----------------------------------------------------------------------|------------------------------------------|--------------------|
|      | 65359     | Flexómetro Robust / Robust Measuring tape                             | 8 m/26" x 30 mm mm/inch                  |                    |
|      | 65180     | Cinta de fibra de vidrio / Fiber glass tape                           | 30 m x 13 mm                             |                    |
|      | 65182     | Sonda tipo pistola cinta negra / Tank dipping tape black tape         | 10 m x 13 mm                             |                    |
|      | 65293     | Nivel trapezoidal profesional / Professional bridge type spirit level | 400 mm                                   |                    |
|      | 51257     | Tester voltaje multifunción / Voltage multifunction Tester            | 0-690 V AC/DC                            |                    |
|      | 65688     | Calibre Pie de Rey inox / Inox Vernier Caliper                        | 300 mm mm/inch                           |                    |
|      | 65493     | Micrómetro para exteriores / Outer micrometer                         | 25-50 mm                                 |                    |
|      | 65792     | Micrómetro para interiores / Inside micrometer                        | 25-50 mm                                 |                    |
|      | 65502     | Reloj comparador digital / Digital indicator                          | 0-12,5 mm                                |                    |
|      | 65789     | Soporte con base magnética / Magnetic stand                           | -                                        |                    |
|      | 65813     | Escuadra de aluminio / Aluminum square                                | 200 x 135 mm                             |                    |
|      | 65810     | Escuadra multigrados de sombrero / Flanged double-mitre square        | 125 mm                                   |                    |
|      | 65618     | Compás de 1/4 portalápices / Wing divider pencil holder               | 150 mm                                   |                    |
|      | 65819     | Goniómetro en acero inoxidable / Stainless steel protactor            | 120 x 150 mm                             |                    |
|      | 65833     | Regla inox métrica y pulgadas / Inox ruler in millimeters and inches  | 300 x 25 x 1,0 mm                        |                    |
| 1    | 65569     | Galgas de espesores de precisión / Precision feeler gauges            | 0,05-2,0 mm                              |                    |
|      | 65570     |                                                                       | 0,03-1,0 mm                              |                    |
|      | 65776     |                                                                       | 0,45-1,5 mm                              |                    |
|      | 65777     |                                                                       | 1,5-3,0 mm                               |                    |
|      | 65778     |                                                                       | 3,0-4,5 mm                               |                    |
|      | 65779     |                                                                       | 4,5-6,0 mm                               |                    |
|      | 65580     |                                                                       | Galgas para radios / Radius gauges       | 15,5-25 mm         |
|      | 65584     |                                                                       | Galgas para ángulos / Angle gauges       | 20 hojas 1°- 45°   |
|      | 65561     |                                                                       | Galgas para roscas / Thread pitch gauges | 0,25-6,00/4-62 TPI |
|      | 65576     |                                                                       | 2-20 mm                                  |                    |
|      | 65577     |                                                                       | 1-12 TPI                                 |                    |
|      | 65767     | Aguja de trazar de bolsillo / Pocket scriber                          | 150 mm                                   |                    |
|      | 65595     | Recogedor telescópico / Telescopic joining pick up                    | CAP 4,53 kg                              |                    |
|      | 65586     | Espejo telescópico articulado / Articulated telescopic mirror         | 10 x 650 mm                              |                    |
|      | 51248     | Pinza amperimétrica / Clamp Meter                                     | 40a-1000a DC / 40a-1000a AC              |                    |
|      | 51260     | Multímetro automoción / Automotive digital multimeter                 | 400µa-10a AC / 400µa-10a DC              |                    |
|      | 51261     | Termómetro infrarrojos / Infrared digital thermometer                 | -32 °C-550 °C                            |                    |
|      | 65424     | Medidor de distancias laser / Laser distance detector                 | -                                        |                    |

# PROYECTOS PRINCIPALES

## *MAIN PROJECTS*

# PRINCIPAUX PROJETS



**ADNOC - PETRÓLEO Y GAS / ADNOC - OIL&GAS /  
ADNOC - PÉTROLE ET GAZ**

**ABU DHABI NATIONAL OIL COMPANY**

EMIRATOS ÁRABES UNIDOS / UNITED ARAB EMIRATES /  
ÉMIRATS ARABES UNIS



29

ILUMINACIÓN  
LIGHTING  
ÉCLAIRAGE  
BELEUCHTUNG  
ILLUMINAZIONE  
ILUMINAÇÃO  
ОСВЕЩЕНИЕ

EGALUX



# EGALUX

La gama de iluminación **EGALux** proporciona un nivel de luminosidad adecuado al espacio a iluminar para favorecer la tarea a desempeñar y la calidad de trabajo, evitando la fatiga visual en los ojos y las alteraciones en el sistema nervioso, aumentando las condiciones de seguridad y salud laboral.

La iluminación proporcionada por la gama **EGALux** posee las siguientes características:

- Suficiente y necesaria para cada trabajo.
- Constante y uniformemente distribuida.

Además, para un correcto uso los focos luminosos deben estar colocados de manera que no deslumbren ni produzcan fatiga en la vista.

Por ello, **EGA Master** incorpora en todos sus modelos **EGALux** la tecnología de diodos emisores de luz de alto rendimiento, comúnmente denominados leds, debido a su menor consumo y larga durabilidad. Son dispositivos muy ventajosos y la opción más profesional en iluminación.

La gama mas completa de linternas **EGALux** se compone de:

*EGALux lighting range provides the perfect luminosity at the job site. It is designed to avoid the visual fatigue and alterations in the nervous system, improving health and safety conditions.*

*The illumination provided by EGALux range includes the following specifications:*

- *Enough and necessary light for each job.*
- *Constant and uniform.*

*The flashlights should be placed correctly to avoid glare or visual fatigue.*

*EGA Master incorporates the high performance light-emitting diode technology in all EGALux models, commonly called leds, due to their low consumption and high operating life.*

*The most complete range of lamps EGALux is composed by:*

La gamme d'éclairage **EGALux** offre un niveau de luminosité idéal pour des espaces à illuminer afin de favoriser la qualité de travail à réaliser, tout en évitant la fatigue visuelle et les altérations du système nerveux, ainsi en augmentant les conditions de sécurité et la santé au travail.

L'éclairage produit par la gamme **EGALux** a les caractéristiques suivantes:

- Suffisant et nécessaire pour tout type de travail.
- Diffusion constante et uniforme.

Outre, pour obtenir un usage correct, les faisceaux lumineux doivent être positionnés de façon à ne pas éblouir ni fatiguer la vision.

Pour cette raison, **EGA Master** intègre dans tous les modèles **EGALux**, la technologie de diodes émettrices de lumière de haut rendement, communément nommées LEDs, dû à une basse consommation et une longue viabilité. Ces derniers sont des dispositifs avantageux étant l'option la plus professionnelle dans le secteur d'éclairage.

La gamme la plus complète des lampes **EGALux** se compose de:

1

Táctiles  
Tactiles  
Tactiles



2

Frontales  
Frontals  
Frontales



3

Para inspección  
For inspection  
Pour inspection



4

Foco  
Hand lamp  
Projecteur




5

De bolsillo  
Pocket  
De poche







**■ LINTERNA TÁCTIL / TACTILE FLASHLIGHT / LAMPE TACTILE / TASCHENLAMPE / TORCIA ALTA LUMINOSITA' / LANTERNA TÁCTIL / ФОНАРИК**

| COD.         | LED                   | LUMENS | L (mm) |  |
|--------------|-----------------------|--------|--------|-------------------------------------------------------------------------------------|
| <b>58643</b> | CREE XHG + 10 SAMSUNG | 60/130 | 300    | 310                                                                                 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                               |                                                                     |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Autonomía (h. aprox.) / <i>Autonomy (h. approx.)</i> / Autonomie (h. approx.) | 2,5-5                                                               |
| Ø Bisel (mm) / <i>Bezel Ø (mm)</i> / Ø Biseau (mm)                            | 45                                                                  |
| Pilas / <i>Batteries</i> / Piles                                              | 3AA (No incluidas) / <i>3AA (Not included)</i> / 3AA (Non includes) |
| Vida del led (h) / <i>Led lifetime (h)</i> / La vie du led (h)                | 100.000                                                             |
| Fuente de luz blanca / <i>White light source</i> / Source de lumière blanche  | ●                                                                   |
| Distancia de haz (m) / <i>Beam distance (m)</i> / Distance du faisceau (m)    | 12/85                                                               |
| Estanqueidad / <i>Waterproof</i> / Étanchement                                | IPX4                                                                |
| Carcasa / <i>Housing</i> / Carcasse                                           | Aluminio / <i>Aluminum</i> / Aluminium                              |



| COD.         | LED       | LUMENS | L (mm) |  |
|--------------|-----------|--------|--------|-------------------------------------------------------------------------------------|
| <b>58647</b> | COB + SMD | 230    | 185    | 220                                                                                 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                               |                                                                |
|-------------------------------------------------------------------------------|----------------------------------------------------------------|
| Autonomía (h. aprox.) / <i>Autonomy (h. approx.)</i> / Autonomie (h. approx.) | 3                                                              |
| Ø Bisel (mm) / <i>Bezel Ø (mm)</i> / Ø Biseau (mm)                            | 45                                                             |
| Batería / <i>Battery</i> / Batterie                                           | Litio, 2400 mAh / <i>Lithium, 2400 mAh</i> / Lithium, 2400 mAh |
| Vida del led (h) / <i>Led lifetime (h)</i> / La vie du led (h)                | 100.000                                                        |
| Fuente de luz blanca / <i>White light source</i> / Source de lumière blanche  | ●                                                              |
| Carcasa / <i>Housing</i> / Carcasse                                           | ABS                                                            |
| Cargador / <i>Charger</i> / Chargeur                                          | 100-240 V / 50-60 Hz / 12 V                                    |


**■ LINTERNA FRONTAL / HEAD LIGHT / LAMPE FRONTALE / KOPFLAMPE / TORCIA FRONTALE / LANTERNA FRONTAL / НАЛОБНЫЙ ФОНАРЬ**


| COD.         | LED | LUMENS  |  |
|--------------|-----|---------|-------------------------------------------------------------------------------------|
| <b>58640</b> | COB | 115-210 | 44                                                                                  |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                  |                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Autonomía (h. aprox.) / <i>Autonomy (h. approx.)</i> / Autonomie (h. approx.)    | 3-7                                                                                                                                                                                                                |
| Pilas / <i>Batteries</i> / Piles                                                 | 3AAA (No incluidas) / <i>3AAA (Not included)</i> / 3AAA (Non includes)                                                                                                                                             |
| Vida del led (h) / <i>Led lifetime (h)</i> / La vie du led (h)                   | 100.000                                                                                                                                                                                                            |
| Luminosidad del led / <i>Led brightness</i> / Luminosité du led                  | 210.000 MCD                                                                                                                                                                                                        |
| Fuente de luz blanca / <i>White light source</i> / Source de lumière blanche     | ●                                                                                                                                                                                                                  |
| Distancia de haz (m) / <i>Beam distance (m)</i> / Distance du faisceau (m)       | 24                                                                                                                                                                                                                 |
| Carcasa / <i>Housing</i> / Carcasse                                              | ABS                                                                                                                                                                                                                |
| Posiciones de iluminación / <i>Lighting positions</i> / Positions d'illumination | Baja potencia, alta potencia, luz roja y luz roja intermitente / <i>Low power, high power, red light and intermitent red light</i> / Puissance faible, haute puissance, lumière rouge et lumière rouge clignotante |



EGALUX


| COD.  | LED | LUMENS |  |
|-------|-----|--------|-----------------------------------------------------------------------------------|
| 58645 | COB | 350    | 115                                                                               |

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                           |                                                                                                |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Autonomía (h. aprox.) / Autonomy (h. approx.) / Autonomie (h. approx.)    | 6                                                                                              |
| Pilas / Batteries / Piles                                                 | 3AAA (No incluidas) / 3AAA (Not included) / 3AAA (Non includes)                                |
| Vida del led (h) / Led lifetime (h) / La vie du led (h)                   | 100.000                                                                                        |
| Luminosidad del led / Led brightness / Luminosité du led                  | 350.000 MCD                                                                                    |
| Fuente de luz blanca / White light source / Source de lumière blanche     | ●                                                                                              |
| Distancia de haz (m) / Beam distance (m) / Distance du faisceau (m)       | 40                                                                                             |
| Carcasa / Housing / Carcasse                                              | Aluminio / Aluminum / Aluminium                                                                |
| Posiciones de iluminación / Lighting positions / Positions d'illumination | Baja potencia y alta potencia / Low power and high power / Puissance faible et haute puissance |




LINTERNA PARA INSPECCIÓN / INSPECTION LAMP / BALADEUSE / INSPEKTIONSLEUCHTE / TORCIA PER ISPEZIONE RICARICABILE / LANTERNA PARA INSPECÇÃO / ФОНАРИК ДЛЯ ОСМОТРА

| COD.  | LED | LUMENS | L (mm) |  |
|-------|-----|--------|--------|------------------------------------------------------------------------------------|
| 51242 | 72  | 180    | 350    | 400                                                                                |

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                         |                                 |
|-----------------------------------------------------------------------------------------|---------------------------------|
| Autonomía (h. aprox.) / Autonomy (h. approx.) / Autonomie (h. approx.)                  | 4                               |
| Batería / Battery / Batterie                                                            | Ni-Mh                           |
| Vida del led (h) / Led lifetime (h) / La vie du led (h)                                 | 100.000                         |
| Luminosidad del led / Led brightness / Luminosité du led                                | 18.000 MCD                      |
| Fuente de luz blanca / White light source / Source de lumière blanche                   | ●                               |
| Estanqueidad / Waterproof / Étanchement                                                 | IP x 4                          |
| Carcasa / Housing / Carcasse                                                            | Aluminio / Aluminum / Aluminium |
| Gancho / Hook / Crochet                                                                 | ●                               |
| Cargador / Charger / Chargeur                                                           | 100-240 V / 50-60 Hz / 12 V     |
| Tiempo de carga (h. aprox.) / Charging time (h. approx.) / Temps de charge (h. approx.) | 12                              |



| COD.  | LED                | LUMENS | L (mm) |  |
|-------|--------------------|--------|--------|--------------------------------------------------------------------------------------|
| 58644 | CREE XML T6 OR COB | 350    | 165    | 190                                                                                  |


ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                         |                                                         |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------|
| Autonomía (h. aprox.) / Autonomy (h. approx.) / Autonomie (h. approx.)                  | 3                                                       |
| Batería / Battery / Batterie                                                            | Litio, 2200 mAh / Lithium, 2200 mAh / Lithium, 2200 mAh |
| Vida del led (h) / Led lifetime (h) / La vie du led (h)                                 | 100.000                                                 |
| Luminosidad del led / Led brightness / Luminosité du led                                | 35.000 MCD                                              |
| Fuente de luz blanca / White light source / Source de lumière blanche                   | ●                                                       |
| Distancia de haz (m) / Beam distance (m) / Distance du faisceau (m)                     | 150                                                     |
| Estanqueidad / Waterproof / Étanchement                                                 | IP 54                                                   |
| Carcasa / Housing / Carcasse                                                            | Aluminio, ABS / Aluminum and ABS / Aluminium et ABS     |
| Gancho / Hook / Crochet                                                                 | ●                                                       |
| Cargador / Charger / Chargeur                                                           | 100-240 V / 50-60 Hz / 12 V                             |
| Tiempo de carga (h. aprox.) / Charging time (h. approx.) / Temps de charge (h. approx.) | 5                                                       |



EGALUX




| COD.  | LED | LUMENS | L (mm) |  |
|-------|-----|--------|--------|------------------------------------------------------------------------------------|
| 58646 | COB | 420    | 190    | 290                                                                                |

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                         |                                                         |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------|
| Autonomía (h. aprox.) / Autonomy (h. approx.) / Autonomie (h. approx.)                  | 3                                                       |
| Batería / Battery / Batterie                                                            | Litio, 4400 mAh / Lithium, 4400 mAh / Lithium, 4400 mAh |
| Vida del led (h) / Led lifetime (h) / La vie du led (h)                                 | 100.000                                                 |
| Luminosidad del led / Led brightness / Luminosité du led                                | 42.000 MCD                                              |
| Fuente de luz blanca / White light source / Source de lumière blanche                   | ●                                                       |
| Estanqueidad / Waterproof / Étanchement                                                 | IPX 4                                                   |
| Carcasa / Housing / Carcasse                                                            | ABS                                                     |
| Gancho / Hook / Crochet                                                                 | ●                                                       |
| Imán / Magnet / Aimant                                                                  | ●                                                       |
| Cargador / Charger / Chargeur                                                           | 100-240 V/ 50-60 Hz / 12 V                              |
| Tiempo de carga (h. aprox.) / Charging time (h. approx.) / Temps de charge (h. approx.) | 5                                                       |



LINTERNA DE BOLSILLO / LED POCKET FLASHLIGHT / LAMPE DE POCHE / LED-TASCHENLAMPE / TORCIA DI TASCA / LANTERNA DE BOLSO / КАРМАННЫЙ СВЕТОДИОДНЫЙ ФОНАРИК

| COD.  | LED      | LUMENS | L (mm) |  |
|-------|----------|--------|--------|--------------------------------------------------------------------------------------|
| 58641 | CREE XPG | 100    | 150    | 57                                                                                   |


ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                         |                                                                                                |
|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Autonomía / Autonomy / Autonomie                                                        | 2,5-7                                                                                          |
| Batería / Battery / Batterie                                                            | Litio, 1200 mAh / Lithium, 1200 mAh / Lithium, 1200 mAh                                        |
| Distancia de haz (m) / Beam distance (m) / Distance du faisceau (m)                     | 80                                                                                             |
| Estanqueidad / Waterproof / Étanchement                                                 | IP 54                                                                                          |
| Carcasa / Housing / Carcasse                                                            | Aluminio / Aluminum / Aluminium                                                                |
| Posiciones de iluminación / Lighting positions / Positions d'illumination               | Baja potencia y alta potencia / Low power and high power / Puissance faible et haute puissance |
| Cargador / Charger / Chargeur                                                           | 100-240 V/ 50-60 Hz / 12 V                                                                     |
| Tiempo de carga (h. aprox.) / Charging time (h. approx.) / Temps de charge (h. approx.) | 3                                                                                              |



BE SAFE...BE EFFICIENT


**LINTERNA UV / UV FLASHLIGHT / LAMPE UV / UV-TASCHENLAMPE / TORCIA UV / LANTERNA UV / УФ ФОНАРИК**

| COD.         | LED    | L (mm) |  |
|--------------|--------|--------|-----------------------------------------------------------------------------------|
| <b>58648</b> | UV-COB | 105    | 115                                                                               |


**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**


|                                                                                                   |                                                                            |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Autonomía (h. aprox.) / <i>Autonomy (h. approx.)</i> /<br>Autonomie (h. approx.)                  | 7(UV)/3(COB)                                                               |
| Batería / <i>Battery</i> / Batterie                                                               | Batería de litio / <i>Lithium battery</i> / Batterie en lithium            |
| Distancia de haz (m) / <i>Beam distance (m)</i> / Distance du<br>faisceau (m)                     | 50                                                                         |
| Estanqueidad / <i>Waterproof</i> / Étanchement                                                    | IP30                                                                       |
| Carcasa / <i>Housing</i> / Carcasse                                                               | Aluminio / <i>Aluminum</i> / Aluminium                                     |
| Posiciones de iluminación / <i>Lighting positions</i> / Positions<br>d'illumination               | Intensidad regulable / <i>Adjustable intensity</i> / Intensité<br>réglable |
| Cargador / <i>Charger</i> / Chargeur                                                              | Cable USB / <i>USB cable</i> / Cable USB                                   |
| Tiempo de carga (h. aprox.) / <i>Charging time (h. approx.)</i> /<br>Temps de charge (h. approx.) | 3                                                                          |

| COD.         | LED | L (mm) |  |
|--------------|-----|--------|-----------------------------------------------------------------------------------|
| <b>58649</b> | UV  | 100    | 42                                                                                |


**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                  |                                                                          |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Autonomía (h. aprox.) / <i>Autonomy (h. approx.)</i> /<br>Autonomie (h. approx.) | 4                                                                        |
| Pilas / <i>Batteries</i> / Piles                                                 | 3AAA (No incluidas) / <i>3AAA (Not included)</i> / 3AAA<br>(Nonincluses) |
| Distancia de haz (m) / <i>Beam distance (m)</i> / Distance du<br>faisceau (m)    | 50                                                                       |
| Estanqueidad / <i>Waterproof</i> / Étanchement                                   | IP42                                                                     |
| Carcasa / <i>Housing</i> / Carcasse                                              | Aluminio / <i>Aluminum</i> / Aluminium                                   |

**FOCO LED / LED HAND LAMP / PROJECTEUR LED / LED-HANDLEUCHE / RIFLETTORE A LED / HOLOFOTE LED / СВЕТОДИОДНЫЙ ПРОЖЕКТОР**

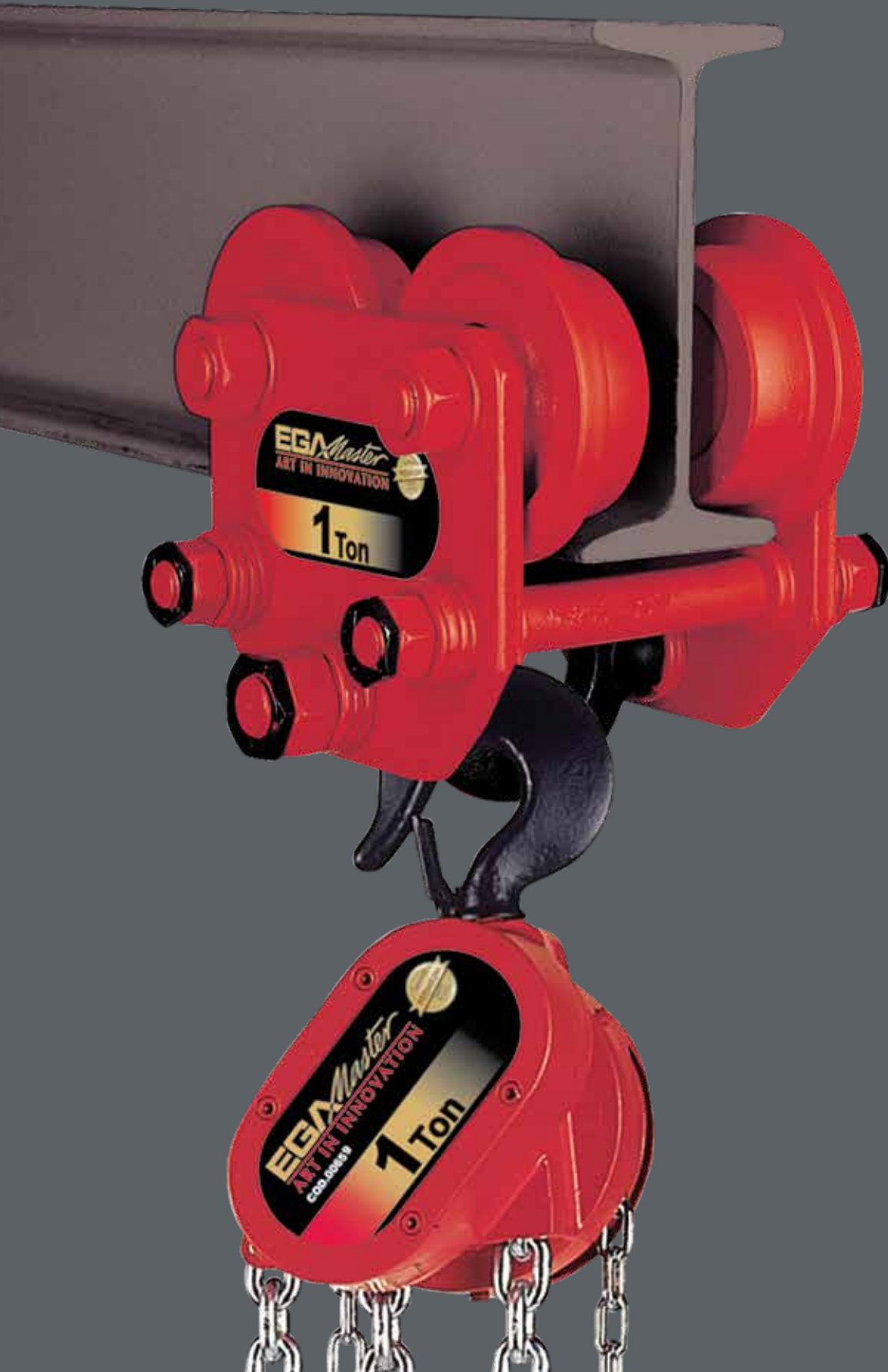
| COD.         | LED | LUMENS |  |
|--------------|-----|--------|-------------------------------------------------------------------------------------|
| <b>58642</b> | COB | 1100   | 750                                                                                 |


**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

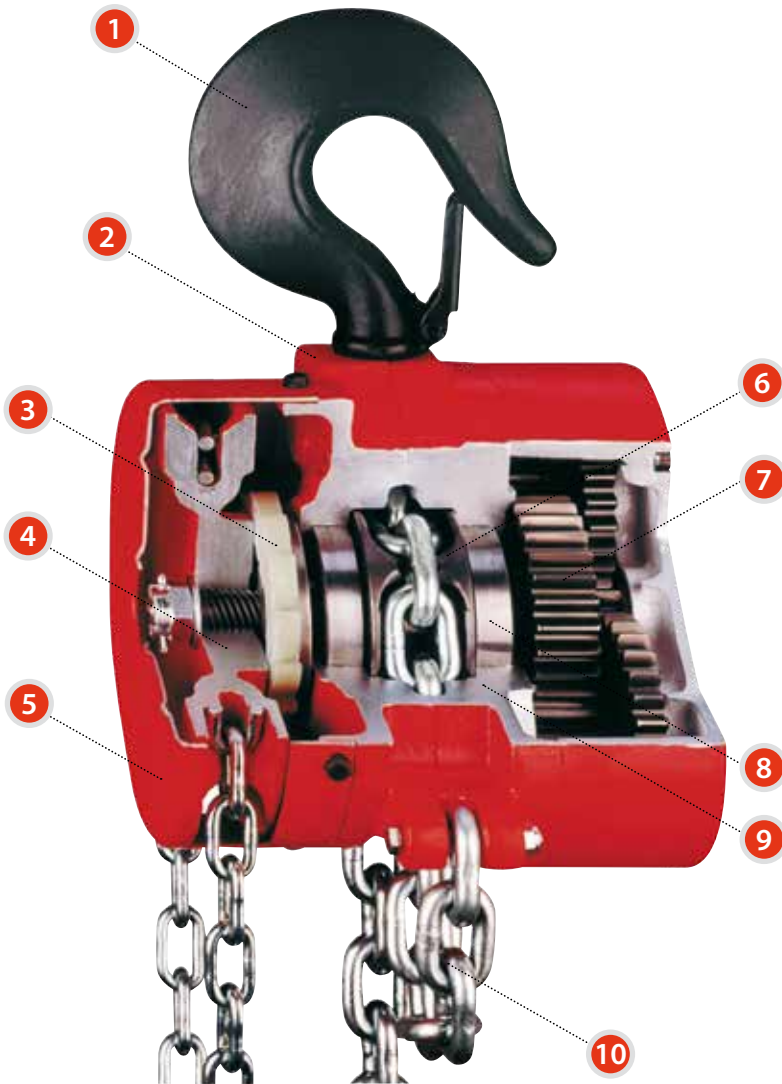
|                                                                                                   |                                                                                                           |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Autonomía (h. aprox.) / <i>Autonomy (h. approx.)</i> /<br>Autonomie (h. approx.)                  | 3                                                                                                         |
| Batería / <i>Battery</i> / Batterie                                                               | Litio, 4400 mAh / <i>Lithium, 4400 mAh</i> / Lithium, 4400 mAh                                            |
| Vida del led (h) / <i>Led lifetime (h)</i> / La vie du led (h)                                    | 100.000                                                                                                   |
| Fuente de luz blanca / <i>White light source</i> / Source de<br>lumière blanche                   | ●                                                                                                         |
| Carcasa / <i>Housing</i> / Carcasse                                                               | ABS y Aluminio / <i>ABS and Aluminum</i> / ABS et Aluminium                                               |
| Posiciones de iluminación / <i>Lighting positions</i> / Positions<br>d'illumination               | Baja potencia y alta potencia / <i>Low power and high<br/>power</i> / Puissance faible et haute puissance |
| Cargador / <i>Charger</i> / Chargeur                                                              | 100-240 V / 50-60 Hz / 12 V                                                                               |
| Tiempo de carga (h. aprox.) / <i>Charging time (h. approx.)</i> /<br>Temps de charge (h. approx.) | 6                                                                                                         |

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SISTEMAS DE ELEVACIÓN  
LIFTING SYSTEMS  
SYSTÈMES DE LEVAGE  
HEBESYSTEME  
SISTEMI DI ELEVAZIONE  
SISTEMAS DE ELEVAÇÃO  
ПОДЪЕМНЫЕ СИСТЕМЫ



**POLIPASTOS MANUALES**  
**HAND CHAIN HOISTS**  
**PALANS MANUELS**



- 1**  
Ganchos  
Hooks  
Crochets
- 2**  
Cuerpo principal  
Main body  
Corps principal
- 3**  
Freno de seguridad  
Security brake  
Frein de Sécurité
- 4**  
Volante de mando  
Control flywheel  
Volant de commande
- 5**  
Carter del volante  
Flywheel casing  
Carter du volant
- 6**  
Nuez de cadena de carga  
Load chain sheave  
Pignon de chaîne de charge
- 7**  
Reductor  
Reducer  
Réducteur
- 8**  
Rodamientos de bolas  
Ball bearings  
Roulements à billes
- 9**  
Guiado permanente  
Permanent Load Chain Guide  
Guide permanent
- 10**  
Cadena de carga  
Load chain  
Chaîne de charge

Los polipastos manuales EGA Master están diseñados, fabricados y estrictamente controlados de acuerdo a la norma FEM, garantizan la máxima seguridad con diversidad de posibilidades de elevación.

Su exclusivo guiado permanente, evita que la cadena se pueda atascar o romperse. Esto, junto con su sistema de freno patentado de acción inmediata y con el Factor de Seguridad de 5-6 recomendado para la cadena, no sólo refuerza un trabajo en condiciones de seguridad, sino que además amplía los ciclos de uso maximizando la vida útil de los mismos.

Su optimizado diseño requiere además un mantenimiento mínimo, simplemente hay que lubricarlos periódicamente.

*EGA Master hand chain hoists are designed, manufactured and controlled according to the FEM standard, ensuring the maximum safety with a diversity of lifting possibilities.*

*Its exclusive permanent load chain guide avoids the chain jams or breaks. This, together with its patented immediate action safety brake system and with the Safety Factor 5-6 recommended for the chain, not only reinforces the work in safe conditions, but also, extends the use cycles maximizing their useful life.*

*Its optimized design only requires minimal maintenance: a simply lubrication periodically.*

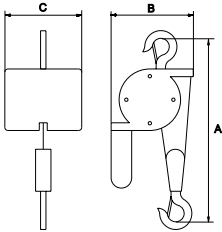
Les palans manuels EGA Master sont conçus, fabriqués et strictement contrôlés en accord avec la norme FEM, ils garantissent une sécurité optimales avec une multitudes de possibilités de levage.

Son exclusif guide permanent, évite que la chaîne puisse s'entrecroiser ou se rompre. Ceci, en combinaison avec son système de freinage breveté d'action immédiate et grâce au facteur Sécurité de 5-6 recommandé par la chaîne, non seulement cela renforce un travail dans des conditions de sécurité, mais aussi cela augmente le nombre de cycle maximisant son espérance de vie.

Sa conception optiminale requiert néanmoins un entretien minimaliste, simplement une lubrification périodique est nécessaire.

**POLIPASTOS MANUALES / HAND CHAIN HOISTS / PALANS MANUELS / HANDKETTENZUG / PARANCHI MANUALI / DIFERENCIAIS MANUAIS DE CORRENTE / РУЧНЫЕ ЛЕБЕДКИ**

**POLIPASTOS DE GANCHO / HOOK CHAIN HOISTS / PALANS À CROCHET / HAKENKETTENZUG / PARANCHI A GANCIO / DIFERENCIAIS DE CORRENTE COM GANCHO / ЛЕБЕДКА ЦЕПНАЯ**

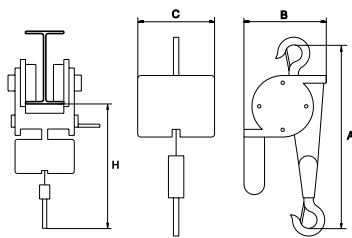


| COD.  | CAP. (Ton) | Nº de ramas / Nº of chain falls / Nombre de brins | A (mm) | B (mm) | C (mm) | Kg  |
|-------|------------|---------------------------------------------------|--------|--------|--------|-----|
| 00657 | 0,25       | 1                                                 | 260    | 130    | 160    | 8,0 |
| 00658 | 0,5        |                                                   | 310    | 160    | 175    | 13  |
| 00659 | 1          |                                                   | 380    | 180    | 185    | 18  |
| 00660 | 1,6        |                                                   | 415    | 210    | 205    | 31  |
| 00661 | 2          |                                                   | 520    | 260    | 185    | 29  |
| 00662 | 2,5        |                                                   | 640    | 290    | 205    | 45  |
| 00663 | 3,2        | 2                                                 | 730    | 380    | 230    | 75  |
| 00664 | 5          |                                                   | 870    | 440    |        | 110 |
| 00665 | 6,3        |                                                   | 900    | 440    | 120    |     |
| 00666 | 8          |                                                   | 1000   | 490    | 160    |     |
| 00667 | 10         |                                                   | 1150   | 520    | 250    | 210 |
| 00668 | 12,5       |                                                   |        |        |        |     |
| 00669 | 16         |                                                   |        |        |        |     |

Pesos aproximados para tres metros de elevación / Approximate weights for 3 meters elevation / Poids approximatifs pour 3 mètres d'élévation



**POLIPASTOS DE CARRO DE CADENA / GEARED TROLLEY CHAIN HOISTS / PALANS À CHARIOT À CHAÎNE / HASPEL KETTENZUG / PARANCHI A CATENA SU CARRELLO / DIFERENCIAIS DE CORRENTE COM CARRO (DE ENGRENAGEM) / ЛЕБЕДКА ЦЕПНАЯ С БЛОКОМ И ТЕЛЕЖКОЙ**

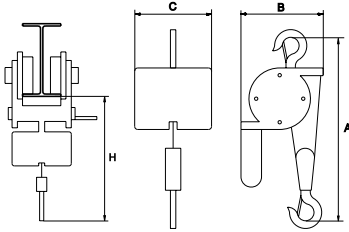


| COD.  | CAP. (Ton) | Nº de ramas / Nº of chain falls / Nombre de brins | A (mm) | B (mm) | C (mm) | H (mm) | Kg  |
|-------|------------|---------------------------------------------------|--------|--------|--------|--------|-----|
| 00678 | 0,5        | 1                                                 | 260    | 130    | 160    | 280    | 17  |
| 00679 | 1          |                                                   | 310    | 160    | 175    | 330    | 27  |
| 00680 | 1,6        |                                                   | 380    | 180    | 185    | 400    | 37  |
| 00681 | 2          |                                                   | 415    | 210    | 205    | 435    | 55  |
| 00682 | 2,5        |                                                   | 520    | 260    | 185    | 540    | 65  |
| 00683 | 3,2        | 2                                                 | 640    | 290    | 205    | 660    | 95  |
| 00684 | 5          |                                                   | 730    | 380    | 230    | 760    | 125 |
| 00685 | 6,3        |                                                   | 870    | 440    |        | 890    | 220 |
| 00686 | 8          |                                                   | 900    | 440    | 940    | 240    |     |
| 00687 | 10         |                                                   | 1000   | 490    | 1040   | 290    |     |
| 00688 | 12,5       | 4                                                 | 1150   | 520    | 250    | 1200   | 340 |
| 00689 | 16         |                                                   |        |        |        |        |     |
| 00690 |            |                                                   |        |        |        |        |     |

Pesos aproximados para tres metros de elevación / Approximate weights for 3 meters elevation / Poids approximatifs pour 3 mètres d'élévation



**POLIPASTOS DE CARRO DE EMPUJE / GEARED TROLLEY CHAIN HOISTS / PALANS À CHARIOT DE POUSSÉ / SCHUB KETTENZUG / PARANCHI A SPINTA SU CARRELLO / DIFERENCIAIS DE CORRENTE COM CARRO / ЛЕБЕДКА ЦЕПНАЯ С ТЕЛЕЖКОЙ**



| COD.  | CAP. (Ton) | Nº de ramales / Nº of chain falls / Nombre de brins | A (mm) | B (mm) | C (mm) | H (mm) | Kg  |    |
|-------|------------|-----------------------------------------------------|--------|--------|--------|--------|-----|----|
| 00671 | 0,5        | 1                                                   | 260    | 130    | 160    | 280    | 15  |    |
| 00672 | 1          |                                                     | 310    | 160    | 175    | 330    | 23  |    |
| 00673 | 1,6        |                                                     | 380    | 180    | 185    | 400    | 33  |    |
| 00674 | 2          |                                                     | 415    | 210    | 205    | 435    | 48  |    |
| 00675 | 2,5        |                                                     | 2      | 520    | 260    | 185    | 540 | 60 |
| 00676 | 3,2        |                                                     |        | 520    | 260    | 185    | 540 | 60 |
| 00677 | 3,2        |                                                     |        | 520    | 260    | 185    | 540 | 60 |

Pesos aproximados para tres metros de elevación / Approximate weights for 3 meters elevation / Poids approximatifs pour 3 mètres d'élevation





31

ARTÍCULOS ELECTRÓNICOS  
ELECTRONIC DEVICES  
APPAREILS ÉLECTRONIQUES  
ELEKTRONISCHE GERÄTE  
DISPOSITIVI ELETTRONICI  
ARTIGOS ELECTRÓNICOS  
ЦИФРОВЫЕ УСТРОЙСТВА

EGATRONIK



# EGATRONIK

La medición de precisión es una necesidad fundamental en la vida moderna. El confort, la calidad, la eficiencia y, sobre todo, la seguridad vienen determinadas por la precisión de las medidas que se realizan. Consciente de ello, EGA Master ha desarrollado una amplísima gama de instrumentos electrónicos de medición y testeo de gran precisión e innovación, que permitirán a los usuarios profesionales realizar su trabajo con las máximas garantías, la seguridad del trabajo bien hecho y la máxima eficacia.

Instrumentos que permitirán realizar todo tipo de mediciones eléctricas, electrónicas, de aislamiento, iluminación, temperatura, sonido y velocidad, entre otros, para los sectores industriales y profesionales más exigentes: Automoción, Aeronáutica, Iluminación, Eléctrico, Electrónico, Mantenimiento Industrial, Seguridad y Salud, Construcción, Ferroviario, Naval, etc.

*Accurate measuring is a fundamental requirement in modern life. Comfort, quality, efficiency, and above all, safety, are determined by the accuracy of the measurements done. Conscious about it, EGA Master has developed a wide range of high precision and innovative electronic measuring and testing instruments, that will help professional end-users to do their job with complete safety, certain of a well done job.*

*The range includes devices for any type of measurements, such as electric, electronic, insulation, illumination, temperature, sound or speed... for the most demanding industrial sectors and professionals: Automotive, Aeronautics, Illumination, Electric, Electronic, Industrial Maintenance, Health & Safety, Construction, Railway, Shipbuilding and a long etc.*



La medida de precisión es una necesidad fundamental en la vida moderna. El confort, la calidad, la eficiencia y sobre todo, la seguridad, son determinados por la precisión de las medidas realizadas. Étant conscient de ce fait, EGA Master a développé une vaste gamme d'instruments électroniques de mesure et de test avec une grande précision et innovation, ce qui permettra aux usagers professionnels de réaliser leur travail avec les garanties maximales, la sécurité d'un travail bien fait et une grande efficacité.

Tous ces instruments permettront de réaliser tout type de méditations comme par exemple : électriques, électroniques, d'isolation, d'illumination, de température, de son et vitesse, pour les secteurs industriels et professionnels les plus exigeants : Automation, Aéronautique, Éclairage, Électrique, Électronique, Entretien Industriel, Sécurité et Santé, Construction, Ferroviaire, Naval, parmi beaucoup d'autres.



## EGATRONIK

### PINZA AMPERIMÉTRICA / CLAMP METER / PINCE AMPÈREMÉTRIQUE / STROMZANGE / PINZA AMPERIMETRICA / PINÇA AMPERIMÉTRICA / ИНДУКЦИОННЫЙ ИЗМЕРИТЕЛЬ

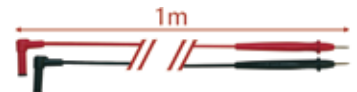
| COD.  |  |  |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 51664 | 250                                                                               | 1                                                                                 |



CE | 12M | IEC 61010

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                  |                                      |
|-------------------------------------------------------------------------------------------|--------------------------------------|
| ACV                                                                                       | 600 V ±(0,8%+5)                      |
| DCV                                                                                       | 600 V ±(0,5%+2)                      |
| ACA                                                                                       | 400 A ±(2%+10)                       |
| Ω                                                                                         | 40 MΩ ±(0,8%+2)                      |
| °C                                                                                        | -40 °C~1000 °C ±(1,5%+5)             |
| °F                                                                                        | -40 °F~1832 °F ±(2%+6)               |
| Medidor de continuidad por sonido / Continuity buzzer / Mesure de continuité par son      | ●                                    |
| Medición del ciclo de trabajo / Duty cycle / Mesure du cycle de travail                   | -                                    |
| Test diodo y transistores / Diode & transistors test / Test diode et transistors          | ●                                    |
| Función fijación de datos / Data hold function / Fonction mémorisation des renseignements | ●                                    |
| Indicador de batería baja / Low battery indication / Indicateur de charge de batterie     | ●                                    |
| Alimentación / Power / Poids                                                              | 3 V (2 x AAA)                        |
| Auto range                                                                                | ●                                    |
| Display                                                                                   | 4000                                 |
| Cables de prueba / Test leads / Jeu de cordons de mesure                                  | Cod. 51270 (CATI 1000V - CATII 600V) |
| Función Pico / Peak Function / Fonction de piquage                                        | ●                                    |



| COD.  | Descripción / Description / Description                  |                         |
|-------|----------------------------------------------------------|-------------------------|
| 51270 | Cables de prueba / Test leads / Jeu de cordons de mesure | CATI 1000V - CATII 600V |



| COD.  |  |  |
|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 51248 | 665                                                                                 | 1                                                                                   |

CE | 12M | IEC 61010

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                  |                                        |
|-------------------------------------------------------------------------------------------|----------------------------------------|
| ACV                                                                                       | 750 V ±(1,2%+3)                        |
| DCV                                                                                       | 1000 V ±(0,8%+1)                       |
| DCA                                                                                       | 1000 A ±(1,5%+5)                       |
| ACA                                                                                       | 1000 A ±(2%+2)                         |
| Ω                                                                                         | 40 MΩ ±(1%+2)                          |
| Hz                                                                                        | 10 MHz ±(0,1%+3)                       |
| Duty Cycle 0,1%-99,9%                                                                     | ●                                      |
| Medidor de continuidad por sonido / Continuity buzzer / Mesure de continuité par son      | ●                                      |
| Medición del ciclo de trabajo / Duty cycle / Mesure du cycle de travail                   | ●                                      |
| Test diodo y transistores / Diode & transistors test / Test diode et transistors          | ●                                      |
| Función fijación de datos / Data hold function / Fonction mémorisation des renseignements | ●                                      |
| Indicador de batería baja / Low battery indication / Indicateur de charge de batterie     | ●                                      |
| Alimentación / Power / Poids                                                              | 9 V (6F22)                             |
| Auto range                                                                                | ●                                      |
| Pantalla retroiluminada / Back light display / Écran à rétro-éclairage                    | ●                                      |
| True RMS                                                                                  | ●                                      |
| Display                                                                                   | 4000                                   |
| Cables de prueba / Test leads / Jeu de cordons de mesure                                  | Cod. 51272 (CATIII 1000V - CATIV 600V) |
| Función Pico / Peak Function / Fonction de piquage                                        | ●                                      |





| COD.  | Descripción / Description / Description                  |                           |
|-------|----------------------------------------------------------|---------------------------|
| 51272 | Cables de prueba / Test leads / Jeu de cordons de mesure | CATIII 1000V - CATIV 600V |



12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

## EGATRONIK

### MULTÍMETRO DIGITAL / DIGITAL MULTIMETER / MULTIMÈTRE DIGITAL / DIGITALE MULTIMETER / MULTIMETRO DIGITALE / MULTIMETRO DIGITAL / ЦИФРОВОЙ МУЛЬТИМЕТР

| COD.         |  |  |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>58515</b> | 350                                                                               | 1                                                                                 |

CE | 12M | IEC 61010

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES              |                                        |
|---------------------------------------------------------------------------------------|----------------------------------------|
| ACV                                                                                   | 1000V ±(0.5%+10)                       |
| DCV                                                                                   | 1000V ±(0.05%+3)                       |
| DCA                                                                                   | 20A ±(0.5%+5)                          |
| ACA                                                                                   | 20A ±(0.8%+10)                         |
| Ω                                                                                     | 200MΩ ±(0.3%+1)                        |
| °C                                                                                    | -40 °C-1000°C ±(1%+30)                 |
| Hz                                                                                    | 20kHz ±(1.5%+5)                        |
| F                                                                                     | 20μF ±(3%+40)                          |
| USB                                                                                   | ●                                      |
| Duty Cycle 10%-90%                                                                    | ±(1%+30)                               |
| Medidor de continuidad por sonido / Continuity buzzer / Mesure de continuité par son  | ●                                      |
| Medición del ciclo de trabajo / Duty cycle / Mesure du cycle de travail               | -                                      |
| Test diodo y transistores / Diode & transistors test / Test diode et transistors      | ●                                      |
| Indicador de batería baja / Low battery indication / Indicateur de charge de batterie | ●                                      |
| Alimentación / Power / Poids                                                          | 9V Battery (6F22)                      |
| Auto range                                                                            | ●                                      |
| Display                                                                               | 20000                                  |
| Cables de prueba / Test leads / Jeu de cordons de mesure                              | Cod. 51271 (CATIII 1000V - CATIV 600V) |



| COD.         | Descripción / Description / Description                  |                           |
|--------------|----------------------------------------------------------|---------------------------|
| <b>51271</b> | Cables de prueba / Test leads / Jeu de cordons de mesure | CATIII 1000V - CATIV 600V |



| COD.         |  |  |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>51253</b> | 790                                                                                 | 1                                                                                   |

CE | 12M | IEC 61010


| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES              |                                        |
|---------------------------------------------------------------------------------------|----------------------------------------|
| ACV                                                                                   | 1000 V ±(0,8%+40)                      |
| DCV                                                                                   | 1000 V ±(0,1%+8)                       |
| DCA                                                                                   | 10 A ±(0,2%+20)                        |
| ACA                                                                                   | 10 A ±(1%+15)                          |
| Ω                                                                                     | 20 MΩ ±(0,5%+20)                       |
| Hz                                                                                    | 200 MHz ±(0,1%+15)                     |
| F                                                                                     | 20 mF ±(1,5%+20)                       |
| USB                                                                                   | ●                                      |
| Duty Cycle 10%-90%                                                                    | ±(1%+30)                               |
| Medidor de continuidad por sonido / Continuity buzzer / Mesure de continuité par son  | ●                                      |
| Medición del ciclo de trabajo / Duty cycle / Mesure du cycle de travail               | ●                                      |
| Test diodo y transistores / Diode & transistors test / Test diode et transistors      | ●                                      |
| Indicador de batería baja / Low battery indication / Indicateur de charge de batterie | ●                                      |
| Alimentación / Power / Poids                                                          | 9 V (6F22)                             |
| Auto range                                                                            | ●                                      |
| Pantalla retroiluminada / Back light display / Écran à rétro-éclairage                | ●                                      |
| True RMS (100 kHz)                                                                    | ●                                      |
| Gráfico analógico / Analogue bar graph / Graphique analogique                         | ●                                      |
| Display                                                                               | 20000                                  |
| Cables de prueba / Test leads / Jeu de cordons de mesure                              | Cod. 51272 (CATIII 1000V - CATIV 600V) |
| Función Pico / Peak Function / Fonction de piquage                                    | ●                                      |



| COD.         | Descripción / Description / Description                  |                           |
|--------------|----------------------------------------------------------|---------------------------|
| <b>51272</b> | Cables de prueba / Test leads / Jeu de cordons de mesure | CATIII 1000V - CATIV 600V |



**EGATRONIK**

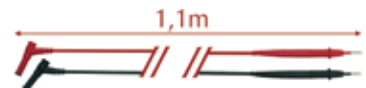
| COD.         |  |  |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>51643</b> | 300                                                                               | 1                                                                                 |


CE | 12M | IEC 61010

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                     |                                                    |
|----------------------------------------------------------------------------------------------|----------------------------------------------------|
| ACV                                                                                          | 600 V $\pm(0,8\%+3)$                               |
| DCV                                                                                          | 600 V $\pm(0,5\%+1)$                               |
| DCA                                                                                          | 10 A $\pm(0,8\%+1)$                                |
| ACA                                                                                          | 10 A $\pm(1\%+3)$                                  |
| $\Omega$                                                                                     | 20 M $\Omega$ $\pm(1\%+2)$                         |
| F                                                                                            | 100 $\mu$ F $\pm(4\%+3)$                           |
| USB                                                                                          | -                                                  |
| $^{\circ}$ C                                                                                 | -40 $^{\circ}$ C-1000 $^{\circ}$ C $\pm(1\%+5)$    |
| $^{\circ}$ F                                                                                 | -40 $^{\circ}$ F-1832 $^{\circ}$ F $\pm(1,5\%+50)$ |
| Medidor de continuidad por sonido / <i>Continuity buzzer</i> / Mesure de continuité par son  | ●                                                  |
| Medición del ciclo de trabajo / <i>Duty cycle</i> / Mesure du cycle de travail               | -                                                  |
| Test diodo y transistores / <i>Diode &amp; transistors test</i> / Test diode et transistors  | ●                                                  |
| Indicador de batería baja / <i>Low battery indication</i> / Indicateur de charge de batterie | ●                                                  |
| Alimentación / <i>Power</i> / Poids                                                          | 9 V (6F22)                                         |
| Auto range                                                                                   | -                                                  |
| Display                                                                                      | 2000                                               |
| Cables de prueba / <i>Test leads</i> / Jeu de cordons de mesure                              | Cod. 51271 (CATIII 1000V - CATIV 600V)             |



| COD.         | Descripción / Description / Description                         |                           |
|--------------|-----------------------------------------------------------------|---------------------------|
| <b>51271</b> | Cables de prueba / <i>Test leads</i> / Jeu de cordons de mesure | CATIII 1000V - CATIV 600V |



| COD.         |  |  |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>51254</b> | 915                                                                                 | 1                                                                                   |

CE | 12M | IEC 61010

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                     |                                                    |
|----------------------------------------------------------------------------------------------|----------------------------------------------------|
| ACV                                                                                          | 1000 V $\pm(0,6\%+40)$                             |
| DCV                                                                                          | 1000 V $\pm(0,05\%+5)$                             |
| DCA                                                                                          | 10 A $\pm(0,15\%+20)$                              |
| ACA                                                                                          | 10 A $\pm(0,8\%+15)$                               |
| $\Omega$                                                                                     | 20 M $\Omega$ $\pm(0,4\%+20)$                      |
| $^{\circ}$ C                                                                                 | -40 $^{\circ}$ C-1000 $^{\circ}$ C $\pm(1\%+30)$   |
| $^{\circ}$ F                                                                                 | -40 $^{\circ}$ F-1832 $^{\circ}$ F $\pm(1,5\%+50)$ |
| Hz                                                                                           | 200 MHz $\pm(0,1\%+15)$                            |
| F                                                                                            | 20 mF $\pm(1,2\%+20)$                              |
| USB                                                                                          | ●                                                  |
| Duty Cycle 10%-90%                                                                           | $\pm(1\%+30)$                                      |
| Medidor de continuidad por sonido / <i>Continuity buzzer</i> / Mesure de continuité par son  | ●                                                  |
| Medición del ciclo de trabajo / <i>Duty cycle</i> / Mesure du cycle de travail               | ●                                                  |
| Test diodo y transistores / <i>Diode &amp; transistors test</i> / Test diode et transistors  | ●                                                  |
| Indicador de batería baja / <i>Low battery indication</i> / Indicateur de charge de batterie | ●                                                  |
| Alimentación / <i>Power</i> / Poids                                                          | 9 V (6F22)                                         |
| Auto range                                                                                   | ●                                                  |
| Pantalla retroiluminada / <i>Back light display</i> / Écran à rétro-éclairage                | ●                                                  |
| True RMS (100 kHz)                                                                           | ●                                                  |
| Gráfico analógico / <i>Analogue bar graph</i> / Graphique analogique                         | ●                                                  |
| Display                                                                                      | 20000                                              |
| Cables de prueba / <i>Test leads</i> / Jeu de cordons de mesure                              | Cod. 51272 (CATIII 1000V - CATIV 600V)             |
| Función Pico / <i>Peak Function</i> / Fonction de piquage                                    | ●                                                  |



| COD.         | Descripción / Description / Description                         |                           |
|--------------|-----------------------------------------------------------------|---------------------------|
| <b>51272</b> | Cables de prueba / <i>Test leads</i> / Jeu de cordons de mesure | CATIII 1000V - CATIV 600V |


**12M** GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

Si no encuentra el artículo que necesita, consúltenos en [consulta@egamaster.com](mailto:consulta@egamaster.com) o en [www.egamaster.com](http://www.egamaster.com)  
 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
 Si vous ne trouvez pas l'article que vous desirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)

## EGATRONIK

| COD.  |     |   |
|-------|-----|---|
| 51252 | 470 | 1 |

CE | 12M | IEC 61010

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES              |                                     |
|---------------------------------------------------------------------------------------|-------------------------------------|
| ACV                                                                                   | 600 V $\pm(0,7\%+3)$                |
| DCV                                                                                   | 600 V $\pm(0,5\%+3)$                |
| DCA                                                                                   | 10 A $\pm(1,0\%+3)$                 |
| ACA                                                                                   | 10 A $\pm(1,2\%+3)$                 |
| $\Omega$                                                                              | 200 M $\Omega$ $\pm(1,0\%+2)$       |
| F                                                                                     | 20 mF $\pm(3\%+5)$                  |
| Medidor de continuidad por sonido / Continuity buzzer / Mesure de continuité par son  | •                                   |
| Test diodo y transistores / Diode & transistors test / Test diode et transistors      | •                                   |
| Indicador de batería baja / Low battery indication / Indicateur de charge de batterie | •                                   |
| Alimentación / Power / Poids                                                          | 1.5V AAA (ZN-MN)                    |
| Auto range                                                                            | •                                   |
| Pantalla retroiluminada / Back light display / Écran à rétro-éclairage                | •                                   |
| Display                                                                               | 2000                                |
| Cables de prueba / Test leads / Jeu de cordons de mesure                              | Cod. 51270 (CATI 1000V - CATII600V) |

| COD.  | Descripción / Description / Description                  |                        |
|-------|----------------------------------------------------------|------------------------|
| 51270 | Cables de prueba / Test leads / Jeu de cordons de mesure | CATI 1000V - CATII600V |



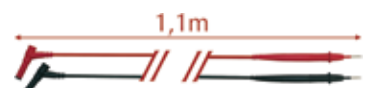
### MULTÍMETRO DIGITAL PARA AUTOMÓVILES / AUTOMOTIVE DIGITAL MULTIMETER / MULTIMÈTRE DIGITAL POUR AUTO / AUTOMOTIVE DIGITALER MULTIMETER / MULTIMETRO DIGITALE PER AUTOMOBILI / MULTIMETRO DIGITAL AUTO / АВТОМОБИЛЬНЫЙ ЦИФРОВОЙ МУЛЬТИМЕТР

| COD.  |     |   |
|-------|-----|---|
| 51259 | 720 | 1 |

CE | 12M | IEC 61010

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                  |                                                              |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| ACV                                                                                       | 750 V $\pm(0,8\%+5)$                                         |
| DCV                                                                                       | 1000 V $\pm(0,5\%+2)$                                        |
| DCA                                                                                       | 10 A $\pm(0,8\%+5)$                                          |
| $\Omega$                                                                                  | 20 M $\Omega$ $\pm(0,8\%+5)$                                 |
| $^{\circ}\text{C}$                                                                        | -40 $^{\circ}\text{C}$ -1000 $^{\circ}\text{C}$ $\pm(2\%+8)$ |
| Hz                                                                                        | 2 kHz $\pm(2\%+5)$                                           |
| Duty Cycle 1%-90%                                                                         | $\pm(4\%+5)$                                                 |
| Dwell                                                                                     | 8 CyL $\pm(3\%+5)$                                           |
| Tasch                                                                                     | 8 CyL $\pm(3\%+5)$                                           |
| Medidor de continuidad por sonido / Continuity buzzer / Mesure de continuité par son      | •                                                            |
| Medición del ciclo de trabajo / Duty cycle / Mesure du cycle de travail                   | •                                                            |
| Test diodo y transistores / Diode & transistors test / Test diode et transistors          | •                                                            |
| Función fijación de datos / Data hold function / Fonction mémorisation des renseignements | •                                                            |
| Indicador de batería baja / Low battery indication / Indicateur de charge de batterie     | •                                                            |
| Alimentación / Power / Poids                                                              | 9 V (6F22)                                                   |
| Test batería / Battery test / Test de batterie                                            | 12 A $\pm(3\%+5)$                                            |
| Display                                                                                   | 1999                                                         |
| Cables de prueba / Test leads / Jeu de cordons de mesure                                  | Cod. 51271 (CATIII 1000V - CATIV 600V)                       |

| COD.  | Descripción / Description / Description                  |                           |
|-------|----------------------------------------------------------|---------------------------|
| 51271 | Cables de prueba / Test leads / Jeu de cordons de mesure | CATIII 1000V - CATIV 600V |



## EGAMASTER

|       |                                                                                   |                                                                                   |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| COD.  |  |  |
| 51260 | 655                                                                               | 1                                                                                 |

CE | 12M | IEC 61010

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                         |                                        |
|--------------------------------------------------------------------------------------------------|----------------------------------------|
| ACV                                                                                              | 1000 V ±(0,8%+3)                       |
| DCV                                                                                              | 1000 V ±(0,5%+3)                       |
| ACA                                                                                              | 10 A ±(1,2%+5)                         |
| DCA                                                                                              | 10 A ±(1%+2)                           |
| Ω                                                                                                | 40 MΩ ±(1%+5)                          |
| °C                                                                                               | -40 °C-537 °C ±(1%+10)                 |
| °F                                                                                               | -40 °F-998 °F ±(1%+18)                 |
| Hz                                                                                               | 1 MHz ±(0,1%+4)                        |
| Dwell                                                                                            | 8 CyL ±(3%+5)                          |
| Tasch                                                                                            | 8 CyL ±(3%+5)                          |
| Medidor de continuidad por sonido / <i>Continuity buzzer</i> / Mesure de continuité par son      | •                                      |
| Medición del ciclo de trabajo / <i>Duty cycle</i> / Mesure du cycle de travail                   | •                                      |
| Test diodo y transistores / <i>Diode &amp; transistors test</i> / Test diode et transistors      | •                                      |
| Función fijación de datos / <i>Data hold function</i> / Fonction mémorisation des renseignements | •                                      |
| Indicador de batería baja / <i>Low battery indication</i> / Indicateur de charge de batterie     | •                                      |
| Alimentación / <i>Power</i> / Poids                                                              | 9 V (6F22)                             |
| Auto range                                                                                       | •                                      |
| Pantalla retroiluminada / <i>Back light display</i> / Écran à rétro-éclairage                    | •                                      |
| Display                                                                                          | 3999                                   |
| Cables de prueba / <i>Test leads</i> / Jeu de cordons de mesure                                  | Cod. 51271 (CATIII 1000V - CATIV 600V) |



| COD.  | Descripción / Description / Description                         |                           |
|-------|-----------------------------------------------------------------|---------------------------|
| 51271 | Cables de prueba / <i>Test leads</i> / Jeu de cordons de mesure | CATIII 1000V - CATIV 600V |



# EGAMASTER

## ART IN INNOVATION

## EGATRONIK

### ■ BUSCAPOLOS / VOLTAGE TESTER / TESTEUR / SPANNUNGSPRÜFER / CERCAFASE / BUSCA-POLOS / ИЗМЕРИТЕЛЬ НАПРЯЖЕНИЯ

|              |     |   |
|--------------|-----|---|
| COD.         |     |   |
| <b>51257</b> | 290 | 1 |

CE | 12M | IEC 61010

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES              |                            |
|---------------------------------------------------------------------------------------|----------------------------|
| ACV-DCV                                                                               | 12/24/50/120/230/400/690 V |
| Test de rotación de fase / Phase rotation test / Test de rotation de phase            | 50-60 Hz                   |
| Indicador de batería baja / Low battery indication / Indicateur de charge de batterie | ●                          |
| Alimentación / Power / Poids                                                          | 3 V (2 x AAA)              |
| Auto range                                                                            | ●                          |
| Continuidad / Continuity / Continuité                                                 | 0-100 kΩ                   |
| Polaridad / Polarity / Polarité                                                       | + / -                      |
| Detección de cortocircuito / Short circuit detection / Détection de courts-circuits   | ●                          |
| Estanqueidad / Waterproof / Étanchement                                               | IP65                       |

|              |     |   |
|--------------|-----|---|
| COD.         |     |   |
| <b>51258</b> | 290 | 1 |

CE | 12M | IEC 61010

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES              |                            |
|---------------------------------------------------------------------------------------|----------------------------|
| ACV-DCV                                                                               | 12/24/50/120/230/400/690 V |
| Test de rotación de fase / Phase rotation test / Test de rotation de phase            | 50-60 Hz                   |
| Indicador de batería baja / Low battery indication / Indicateur de charge de batterie | ●                          |
| Alimentación / Power / Poids                                                          | 3 V (2 x AAA)              |
| Auto range                                                                            | ●                          |
| Continuidad / Continuity / Continuité                                                 | 0-100 kΩ                   |
| Polaridad / Polarity / Polarité                                                       | + / -                      |
| Detección de cortocircuito / Short circuit detection / Détection de courts-circuits   | ●                          |
| Estanqueidad / Waterproof / Étanchement                                               | IP65                       |
| LCD Display                                                                           | 24 V-690 V ± (3%+5)        |



### ■ BUSCAPOLOS AC NO-CONTACTO / NON-CONTACT AC VOLTAGE DETECTOR / TESTEUR DE TENSION AC SANS CONTACT / BERÜHRUNGSLOSER AC SPANNUNGSDETektor / CERCAFASE AC - NO CONTATTO / BUSCAPOLOS AC SEM CONTACTO / БЕСКОНТАКТНЫЙ ДЕТЕКТОР НАПРЯЖЕНИЯ ПЕРЕМЕННОГО ТОКА

|              |    |   |
|--------------|----|---|
| COD.         |    |   |
| <b>58516</b> | 50 | 1 |

CE | 12M | IEC 61010



| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES |                             |
|--------------------------------------------------------------------------|-----------------------------|
| ACV                                                                      | Low 24-1000V; High 90-1000V |
| Hz                                                                       | 50/60 Hz                    |
| Alimentación / Power / Poids                                             | 1.5V battery (R03) x 2      |
| Indicador / Indicator / Indicateur                                       | Beep & LED                  |





## EGATRONIK

### MEDIDOR DE RESISTENCIA DE AISLAMIENTO / MEGGER / MESUREUR DE RÉSISTANCE D'ISOLATION / WIDERSTAND MAB / MISURATORE DI RESISTENZA / MEDIDOR DE RESISTÊNCIA DE ISOLAMENTO / МЕГГЕР

| COD.  |  |  |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 51249 | 500                                                                               | 1                                                                                 |

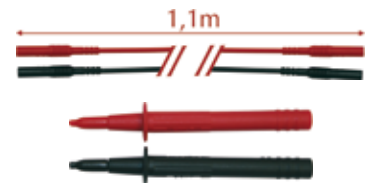
CE | 12M | IEC 61010



| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES       |                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACV                                                                            | 600 V $\pm$ (2%+3)                                                                                                                                                                                                                                                                                                                                                                         |
| DCV                                                                            | No measurement                                                                                                                                                                                                                                                                                                                                                                             |
| Indicación alto voltaje / High voltage indication / Indication de haut voltage | ●                                                                                                                                                                                                                                                                                                                                                                                          |
| Alimentación / Power / Poids                                                   | 9 V (6 x 1.5AA)                                                                                                                                                                                                                                                                                                                                                                            |
| Resistencia aislamiento / Insulation resistance / Résistance d'isolation       | 500 V: 0 M $\Omega$ -99,9 M $\Omega$ / $\pm$ (3%+5)   500 V: 100 M $\Omega$ -5 G $\Omega$ / $\pm$ (5%+5)   1000 V: 0 M $\Omega$ -99,9 M $\Omega$ / $\pm$ (3%+5)   1000 V: 100 M $\Omega$ -5 G $\Omega$ / $\pm$ (5%+5)   2500 V: 0 M $\Omega$ -99,9 M $\Omega$ / $\pm$ (3%+5)   2500 V: 100 M $\Omega$ -10 G $\Omega$ / $\pm$ (5%+5)   2500 V: 10 G $\Omega$ -20 G $\Omega$ / $\pm$ (10%+5) |
| Pantalla retroiluminada / Back light display / Écran à rétro-éclairage         | ●                                                                                                                                                                                                                                                                                                                                                                                          |
| Display                                                                        | 1999                                                                                                                                                                                                                                                                                                                                                                                       |
| Puntas de prueba / Test probes / Pointes de touche                             | Cod. 51280 (CATIII 1000V - CATIII 1000V)                                                                                                                                                                                                                                                                                                                                                   |
| Cables de prueba / Test leads / Jeu de cordons de mesure                       | Cod. 51273 (CATIII 1000V - CATIII 1000V)                                                                                                                                                                                                                                                                                                                                                   |
| Out V                                                                          | 500V $\pm$ 10% 1000V $\pm$ 10% 500V $\pm$ 10% 1000V $\pm$ 10% 2500V $\pm$ 10%                                                                                                                                                                                                                                                                                                              |
| Out A                                                                          | 500 V (R=250k $\Omega$ ); 1 mA / $\pm$ 10%   1000 V (R=1M $\Omega$ ); 1 mA / $\pm$ 10%   2500 (R=2,5M $\Omega$ ); 1 mA / $\pm$ 10%                                                                                                                                                                                                                                                         |
| A cortocircuito / Short circuit A / A court-circuit                            | <2 mA                                                                                                                                                                                                                                                                                                                                                                                      |
| Autodescarga / Auto discharge / Autodécharge                                   | ●                                                                                                                                                                                                                                                                                                                                                                                          |
| Continuidad / Continuity / Continuité                                          | 200 $\Omega$ / $\pm$ (2%+3)                                                                                                                                                                                                                                                                                                                                                                |

| COD.  | Descripción / Description / Description                  |                             |
|-------|----------------------------------------------------------|-----------------------------|
| 51273 | Cables de prueba / Test leads / Jeu de cordons de mesure | CATIII 1000V - CATIII 1000V |



| COD.  | Descripción / Description / Description            |                             |
|-------|----------------------------------------------------|-----------------------------|
| 51280 | Puntas de prueba / Test probes / Pointes de touche | CATIII 1000V - CATIII 1000V |



# BE SAFE...BE EFFICIENT

## EGATRONIK

### COMPROBADOR DE RESISTENCIA DE TIERRA / EARTH GROUND TESTER / TESTEUR DE TERRE / ERDUNGSMESSER / RILEVATORE RESISTENZA A TERRA / COMPROVADOR DE RESISTÊNCIA DE TERRA / ПРИБОР ДЛЯ ПРОВЕРКИ ГРУНТОВОГО ЗАЕМЛЕНИЯ

| COD.  |  |  |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 51250 | 2260                                                                              | 1                                                                                 |

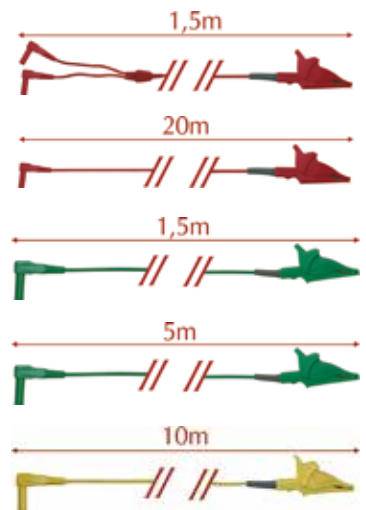
CE | 12M | IEC 61010

#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                   |                                                                                |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Función fijación de datos / Data hold function / Fonction mémorisation des renseignements         | •                                                                              |
| Alimentación / Power / Poids                                                                      | 9V (6 x AA)                                                                    |
| Cables de prueba rojos cortos / Short red test leads / Cordons de mesure rouges courts            | Cod. 51274 (CATIII 600V)                                                       |
| Cables de prueba rojos largos / Long red test leads / Cordons de mesure rouges longs              | Cod. 51275 (CATIII 600V)                                                       |
| Cables de prueba verdes cortos / Short green test leads / Cordons de mesure verts courts          | Cod. 51276 (CATIII 600V)                                                       |
| Cables de prueba verdes largos / Long green test leads / Cordons de mesure verts longs            | Cod. 51277 (CATIII 600V)                                                       |
| Cables de prueba amarillos / Yellow test leads / Cordons de mesure jaunes                         | Cod. 51278 (CATIII 600V)                                                       |
| Test resistencia tierra / Earth ground tester / Testeur de résistance terre                       | 0-20 Ω / ±2% rdg ±0,1 Ω   0-200 Ω / ±2% rdg ±3 dgt   0-2000 Ω / ±2% rdg ±3 dgt |
| Test voltaje tierra / Earth voltage test / Testeur de terre                                       | 0-200 VAC (50/60 Hz)                                                           |
| Protección por doble aislamiento / Double insulation protection / Protection par double isolation | •                                                                              |
| Test 2 cables                                                                                     | •                                                                              |
| Test 3 cables                                                                                     | •                                                                              |





| COD.  | Descripción / Description / Description                                                  |             |
|-------|------------------------------------------------------------------------------------------|-------------|
| 51274 | Cables de prueba rojos cortos / Short red test leads / Cordons de mesure rouges courts   | CATIII 600V |
| 51275 | Cables de prueba rojos largos / Long red test leads / Cordons de mesure rouges longs     | CATIII 600V |
| 51276 | Cables de prueba verdes cortos / Short green test leads / Cordons de mesure verts courts | CATIII 600V |
| 51277 | Cables de prueba verdes largos / Long green test leads / Cordons de mesure verts longs   | CATIII 600V |
| 51278 | Cables de prueba amarillos / Yellow test leads / Cordons de mesure jaunes                | CATIII 600V |



## EGATRONIK

### MULTÍMETRO CON MEDIDA DE AISLAMIENTO / INSULATION RESISTANCE MULTIMETER / MULTIMÈTRE AVEC MESURE D'ISOLATION / MULTIMETER / MULTIMETRO CON MISURE D'ISOLAMENTO / MULTÍMETRO COM MEDIDOR DE ISOLAMENTO / УНИВЕРСАЛЬНЫЙ ИЗМЕРИТЕЛЬ ИЗОЛЯЦИОННОЙ ПРОЧНОСТИ

|              |                                                                                   |                                                                                   |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| COD.         |  |  |
| <b>51251</b> | 960                                                                               | 1                                                                                 |

CE | 12M | IEC 61010

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                  |                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACV                                                                                       | 1000 V ±(0,4%+4)                                                                                                                                                                                                                                                                               |
| DCV                                                                                       | 1000V ±(0,3%+4)                                                                                                                                                                                                                                                                                |
| DCA                                                                                       | 600 mA ±(1%+2)                                                                                                                                                                                                                                                                                 |
| ACA                                                                                       | 600 mA ±(1,5%+2)                                                                                                                                                                                                                                                                               |
| Ω                                                                                         | 40 MΩ ±(0,9%+2)                                                                                                                                                                                                                                                                                |
| °C                                                                                        | -40 °C-537 °C ±(1%+10)                                                                                                                                                                                                                                                                         |
| °F                                                                                        | -40 °F-998 °F ±(1%+18)                                                                                                                                                                                                                                                                         |
| Hz                                                                                        | 1 MHz ±(0,1%+3)                                                                                                                                                                                                                                                                                |
| F                                                                                         | 100 μF ±(3%+5)                                                                                                                                                                                                                                                                                 |
| Medidor de continuidad por sonido / Continuity buzzer / Mesure de continuité par son      | ●                                                                                                                                                                                                                                                                                              |
| Función fijación de datos / Data hold function / Fonction mémorisation des renseignements | ●                                                                                                                                                                                                                                                                                              |
| Alimentación / Power / Poids                                                              | 9 V (6 x AA)                                                                                                                                                                                                                                                                                   |
| Auto range                                                                                | ●                                                                                                                                                                                                                                                                                              |
| Resistencia aislamiento / Insulation resistance / Résistance d'isolation                  | 50V: 0,1MΩ-50MΩ / ±(3%+5)   100V: 0,1MΩ-100MΩ / ±(3%+5)   250 V: 0,2 MΩ-99,9 MΩ / ±(3%+5)   250 V: 100 MΩ-250 MΩ / ±(3%+5)   500 V: 0,5 MΩ-99,9 MΩ / ±(3%+5)   500 V: 100 MΩ-500 MΩ / ±(3%+5)   1000 V: 4 MΩ-99,9 MΩ / ±(3%+5)   1000 V: 100 MΩ-999 MΩ / ±(3%+5)   1000 V: 1 GΩ-2 GΩ / ±(5%+5) |
| True RMS                                                                                  | ●                                                                                                                                                                                                                                                                                              |
| Display                                                                                   | 6000                                                                                                                                                                                                                                                                                           |
| Pinzas cocodrilo / Alligator clips / Sondes à pince crocodile                             | Cod. 51282 (CATII 1000V - CATIII 600V)                                                                                                                                                                                                                                                         |
| Cables de prueba / Test leads / Jeu de cordons de mesure                                  | Cod. 51272 (CATIII 1000V - CATIV 600V)   Cod. 51279 (CATII 1000V - CATII 600V)                                                                                                                                                                                                                 |



| COD.         | Descripción / Description / Description                  |                           |
|--------------|----------------------------------------------------------|---------------------------|
| <b>51272</b> | Cables de prueba / Test leads / Jeu de cordons de mesure | CATIII 1000V - CATIV 600V |



| COD.         | Descripción / Description / Description                  |                          |
|--------------|----------------------------------------------------------|--------------------------|
| <b>51279</b> | Cables de prueba / Test leads / Jeu de cordons de mesure | CATII 1000V - CATII 600V |

| COD.         | Descripción / Description / Description                       |                           |
|--------------|---------------------------------------------------------------|---------------------------|
| <b>51282</b> | Pinzas cocodrilo / Alligator clips / Sondes à pince crocodile | CATII 1000V - CATIII 600V |



## EGATRONIK

### TERMÓMETRO DIGITAL POR INFRARROJOS / INFRARED DIGITAL THERMOMETER / THERMOMÈTRE DIGITAL PAR INFRAROUGE / INFRAROT DIGITAL THERMOMETER / TERMOMETRO DIGITALE A RAGGI INFRAROSSI / TERMÓMETRO DIGITAL POR INFRAVERMELHOS / ИНФРАКРАСНЫЙ ЦИФРОВОЙ ТЕРМОМЕТР



|       |                                                                                   |                                                                                   |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| COD.  |  |  |
| 51261 | 395                                                                               | 1                                                                                 |

CE | 12M | IEC 61010

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                               |                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| °C                                                                                                     | -32 °C~650 °C                                                                                                                                 |
| °F                                                                                                     | -26 °F~1202 °F                                                                                                                                |
| °C-°F                                                                                                  | ●                                                                                                                                             |
| USB                                                                                                    | ●                                                                                                                                             |
| Alimentación / Power / Poids                                                                           | 9 V (6F22)                                                                                                                                    |
| Distancia puntual / Distance to spot size / Distance ponctuelle                                        | 20:01                                                                                                                                         |
| Tiempo de respuesta / Response time / Temps de réponse                                                 | 250 mS (95% de lectura) / 250 mS (95% of reading) / 250 mS (95% de lecture)                                                                   |
| Respuesta espectral / Spectral response / Réponse spectrale                                            | 8 μm~14 μm                                                                                                                                    |
| Pantalla retroiluminada / Back light display / Écran à rétro-éclairage                                 | ●                                                                                                                                             |
| Precisión / Accuracy / Précision                                                                       | ±1.8 °C or ±1.8%                                                                                                                              |
| Repetibilidad / Repeatability / Répétabilité                                                           | ±0.5°C or ±0.5%                                                                                                                               |
| Resolución / Resolution / Résolution                                                                   | 0.1 °C/0.1 °F                                                                                                                                 |
| Emisividad / Emissivity / Émissivité                                                                   | 0.10~1.0 ajustable / 0.10~1.0 adjustable / 0.10~1.0 réglable                                                                                  |
| Tipo de láser / Laser class / Type de laser                                                            | Class 2(II)                                                                                                                                   |
| Potencia del láser / Output power / Puissance du laser                                                 | <1 mW                                                                                                                                         |
| Longitud de onda / Laser wavelength / Longueur d'onde                                                  | 630 nm~670 nm                                                                                                                                 |
| Interruptor láser / Laser Switch / Interrupteur laser                                                  | ●                                                                                                                                             |
| Función fijación de pantalla(s) / Display hold(s) function / Fonction fixation de l'écran(s)           | 8 sg                                                                                                                                          |
| Función auto-apagado / Auto power-off / Fonction auto-éteint                                           | ●                                                                                                                                             |
| Función fijación de datos / Data hold function / Fonction mémorisation des renseignements              | ●                                                                                                                                             |
| Indicador de batería / Battery indicator / Indicateur de batterie                                      | ●                                                                                                                                             |
| MÁX/MIN/DIFF/AVG / MAX/MIN/DIFF/AVG / MAX/MIN/DIFF/AVG                                                 | ●                                                                                                                                             |
| Recuperación automática de datos / Electricity Cut-off Memory / Rétablissement automatique des données | ●                                                                                                                                             |
| Trípode / Tripod Mount / Trépied                                                                       | ●                                                                                                                                             |
| Pantalla LCD / LCD Display (mm) / Écran LCD                                                            | 32 x 29 mm                                                                                                                                    |
| Color / Colour / Couleur                                                                               | Rojo y gris / Red and Grey / Rouge et gris                                                                                                    |
| Peso neto / Net weight / Poids net                                                                     | 320 g                                                                                                                                         |
| Dimensiones / Dimensions / Dimensions                                                                  | 169 x 138 x 53 mm                                                                                                                             |
| Accesorios / Accessories / Accessoires                                                                 | Batería, bolsa de transporte, alimentación externa / Battery, carrying Bag, external power / Batterie, sac de transport, alimentation externe |



## EGATRONIK

|       |                                                                                   |                                                                                   |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| COD.  |  |  |
| 51262 | 1570                                                                              | 1                                                                                 |



CE | 12M | IEC 61010

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                                  |                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| °C                                                                                                        | -50 °C~1550 °C                                                                                                                                   |
| °F                                                                                                        | -58 °F~2822 °F                                                                                                                                   |
| °C-°F                                                                                                     | ●                                                                                                                                                |
| USB                                                                                                       | ●                                                                                                                                                |
| Indicador de batería baja / Low battery indication /<br>Indicateur de charge de batterie                  | ●                                                                                                                                                |
| Alimentación / Power / Poids                                                                              | 9V (6F22): USB - Adaptador / 9V (6F22): USB - Power<br>Adaptor / 9V (6F22): USB - Adaptateur                                                     |
| Distancia puntual / Distance to spot size / Distance<br>ponctuelle                                        | 50:01:00                                                                                                                                         |
| Tiempo de respuesta / Response time / Temps de réponse                                                    | 250 mS (95% de lectura) / 250 mS (95% of reading) / 250<br>mS (95% de lecture)                                                                   |
| Respuesta espectral / Spectral response / Réponse<br>spectrale                                            | 8 µm~14 µm                                                                                                                                       |
| Pantalla retroiluminada / Back light display / Écran à<br>rétro-éclairage                                 | ●                                                                                                                                                |
| Precisión / Accuracy / Précision                                                                          | ±1.8°C or ±1.8%                                                                                                                                  |
| Repetibilidad / Repeatability / Répétabilité                                                              | ±0.5 °C or ±0.5%                                                                                                                                 |
| Resolución / Resolution / Résolution                                                                      | 0.1(<10°C:0.2)                                                                                                                                   |
| Emisividad / Emissivity / Émissivité                                                                      | 0.10~1.0 ajustable / 0.10~1.0 adjustable / 0.10~1.0<br>réglable                                                                                  |
| Tipo de láser / Laser class / Type de laser                                                               | Class 2(II)                                                                                                                                      |
| Potencia del láser / Output power / Puissance du laser                                                    | <1 mW                                                                                                                                            |
| Longitud de onda / Laser wavelength / Longueur d'onde                                                     | 630 nm~670 nm                                                                                                                                    |
| Interruptor láser / Laser Switch / Interrupteur laser                                                     | ●                                                                                                                                                |
| Función fijación de pantalla(s) / Display hold(s) function /<br>Fonction fixation de l'écran(s)           | 8 sg                                                                                                                                             |
| Función auto-apagado / Auto power-off / Fonction auto-<br>éteint                                          | ●                                                                                                                                                |
| Función fijación de datos / Data hold function / Fonction<br>mémorisation des renseignements              | ●                                                                                                                                                |
| MÁX/MIN/DIFF/AVG / MAX/MIN/DIFF/AVG / MAX/MIN/<br>DIFF/AVG                                                | ●                                                                                                                                                |
| Memoria datos / Data logging / Mémoire de données                                                         | 99                                                                                                                                               |
| Alarma nivel alto / High alarm / Alarme de haut niveau                                                    | ●                                                                                                                                                |
| Alarma nivel bajo / Lower alarm / Alarme de bas niveau                                                    | ●                                                                                                                                                |
| Recuperación automática de datos / Electricity Cut-off<br>Memory / Rétablissement automatique des données | ●                                                                                                                                                |
| Tripode / Tripod Mount / Trépied                                                                          | ●                                                                                                                                                |
| Medida contacto T-C / T-C contact measurement / Mesure<br>du contact T-C                                  | ●                                                                                                                                                |
| Pantalla LCD / LCD Display (mm) / Écran LCD                                                               | 33 x 38 mm                                                                                                                                       |
| Color / Colour / Couleur                                                                                  | Rojo y gris / Red and Grey / Rouge et gris                                                                                                       |
| Peso neto / Net weight / Poids net                                                                        | 320 g                                                                                                                                            |
| Accesorios / Accessories / Accessoires                                                                    | Batería, cable interfaz USB, PC software CD / Battery, USB<br>Interface cable, PC software CD / Batterie, câble interface<br>USB, PC software CD |



## EGATRONIX

### MEDIDOR DE DISTANCIAS LÁSER / LASER DISTANCE DETECTOR / MESURE DE DISTANCE AU LASER / LASER DISTANZMESSGERÄT / MISURATORE DI DISTANZA LASER / MEDIDOR DE DISTÂNCIAS LASER / ЛАЗЕРНЫЙ ИЗМЕРИТЕЛЬ


|              |                                                                                   |                                                                                   |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| COD.         |  |  |
| <b>65424</b> | 340                                                                               | 1                                                                                 |

CE | 12M | IEC 61010

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                                                                |                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Alimentación / Power / Poids                                                                                                            | 2x 1,5V AAA                                                                                                                  |
| Pantalla retroiluminada / Back light display / Écran à rétro-éclairage                                                                  | ●                                                                                                                            |
| Alcance / Reach / Distance                                                                                                              | 0,1 m - 60 m / 4in - 197 ft                                                                                                  |
| Precisión / Accuracy / Précision                                                                                                        | $\pm 2.0\text{mm} + 5 \times 10^{-5} \times \text{Distancia}$ / $\pm 2.0\text{mm} + 5 \times 10^{-5} \times \text{Distance}$ |
| Resolución / Resolution / Résolution                                                                                                    | 1 mm                                                                                                                         |
| Tipo de láser / Laser class / Type de laser                                                                                             | 2                                                                                                                            |
| Potencia del láser / Output power / Puissance du laser                                                                                  | < 1mW                                                                                                                        |
| Longitud de onda / Laser wavelength / Longueur d'onde                                                                                   | 630-670 nm                                                                                                                   |
| Medición de mínimo y máximo / Maximum and minimum measurement / Mesure minimale et maximale                                             | ●                                                                                                                            |
| Función de medición continua / Continuous measurement function / Fonction de mesure continue                                            | ●                                                                                                                            |
| Función Pitágoras / Pythagorean function / Fonction Pythagore                                                                           | ●                                                                                                                            |
| Cálculo de distancias, áreas y volúmenes / Distance, square and cubic measurement calculator / Calcul de distances, surfaces et volumes | ●                                                                                                                            |
| Adición y substracción / Addition and Subtraction / Addition et soustraction                                                            | ●                                                                                                                            |
| Unidades de medida / Unit selection / Unités de mesure                                                                                  | m/ft/in                                                                                                                      |
| Memoria datos / Data logging / Mémoire de données                                                                                       | 20                                                                                                                           |
| Función auto-apagado láser / Laser auto power-off / Fonction auto-éteint laser                                                          | 30s                                                                                                                          |
| Función auto-apagado aparato / Device auto power-off / Fonction auto-éteint de l'appareil                                               | 180s                                                                                                                         |
| Indicador de batería / Battery indicator / Indicateur de batterie                                                                       | llena-media-baja / full-medium-low / pleine-moyenne-faible                                                                   |
| Autonomía / Autonomy / Autonomie                                                                                                        | hasta 8000 medidas / up to 8000 measures / jusqu'à 8000 mesures                                                              |
| Temperatura de trabajo / Working temperature / Température de travail                                                                   | 0 °C ~ 40 °C                                                                                                                 |
| Temperatura de almacenamiento / Storage temperature / Température de stockage                                                           | -20°C ~ 40°C                                                                                                                 |



### TACÓMETRO DIGITAL / DIGITAL TACHOMETER / TACHYMÈTRE DIGITAL / DIGITAL TACHOMETER / TACCHIMETRO DIGITALE / TACÓMETRO DIGITAL / ЦИФРОВОЙ ТАХОМЕТР

|              |                                                                                     |                                                                                     |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| COD.         |  |  |
| <b>51265</b> | 380                                                                                 | 1                                                                                   |

CE | 12M | IEC 61010

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                  |                                                           |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| RPM                                                                                       | 10-99999 rpm                                              |
| USB                                                                                       | ●                                                         |
| Alimentación / Power / Poids                                                              | 6 V (4 x AA)                                              |
| Rangos / Ranges / Echelles                                                                | 10-99 rpm   100-999 rpm   1000-9999 rpm   10000-99999 rpm |
| Display                                                                                   | 99999                                                     |
| Precisión / Accuracy / Précision                                                          | 0,04% $\pm 2$ dgt                                         |
| Función fijación de datos / Data hold function / Fonction mémorisation des renseignements | ●                                                         |
| MÁX/MIN/AVE/ZERO / MAX/MIN/AVE/ZERO / MAX/MIN/AVE/ZERO                                    | ●                                                         |
| Distancia de medición / Target distance / Distance de mesure                              | 50-200 mm                                                 |



12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

## EGATRONIK

### ANEMÓMETRO / ANEMOSCOPE / ANÉMOMÈTRE / ANEMOMETER / ANEMOMETRO / ANEMÓMETRO / АНЕМОМЕТР (ВЕТРОМЕР)

|              |                                                                                   |                                                                                   |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| COD.         |  |  |
| <b>51264</b> | 600                                                                               | 1                                                                                 |

CE | 12M | IEC 61010

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                  |                                      |
|-------------------------------------------------------------------------------------------|--------------------------------------|
| °C                                                                                        | 0 °C-40 °C ±3 °C                     |
| °F                                                                                        | 32 °F-104 °F ±4 °F                   |
| USB                                                                                       | ●                                    |
| CMM                                                                                       | 0,001-9999 x 10                      |
| CFM                                                                                       | 0,001-9999 x 10                      |
| Función fijación de datos / Data hold function / Fonction mémorisation des renseignements | VEL/FLOW                             |
| Indicador de batería baja / Low battery indication / Indicateur de charge de batterie     | ●                                    |
| Alimentación / Power / Poids                                                              | 9 V (6F22)                           |
| Max./Min.                                                                                 | ●                                    |
| Pantalla retroiluminada / Back light display / Écran à rétro-éclairage                    | ●                                    |
| Velocidad viento / Wind speed / Vitesse de vent                                           | 2-10 m/s ±(3%+5)   10-30 m/s ±(3%+5) |



### LUXÓMETRO / LUMINOMETER / LUMINOMÈTRE / LICHTMETER / LUMINOMETRO / LUXÍMETRO / ЛЮМИНОМЕТР



|              |                                                                                     |                                                                                     |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| COD.         |  |  |
| <b>51266</b> | 330                                                                                 | 1                                                                                   |

CE | 12M | IEC 61010

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                  |                                                                              |
|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| USB                                                                                       | ●                                                                            |
| Función fijación de datos / Data hold function / Fonction mémorisation des renseignements | ●                                                                            |
| Alimentación / Power / Poids                                                              | 9 V (6F22)                                                                   |
| LUX                                                                                       | 20 Lux: ±(3%+20)   200 Lux: ±(3%+8)   2000 Lux: ±(3%+8)   20000 Lux: ±(3%+8) |
| LUX/CD                                                                                    | ●                                                                            |
| Auto range                                                                                | ●                                                                            |
| Max./Min.                                                                                 | ●                                                                            |
| Memoria datos / Data logging / Mémoire de données                                         | ●                                                                            |
| Temperatura de trabajo / Working temperature / Température de travail                     | 0 °C-40 °C                                                                   |



### SONÓMETRO / SOUND METER / SONOMÈTRE / SCHALLPEGEL-MESSGERÄT / SONOMETRO / SONÓMETRO / ИЗМЕРИТЕЛЬ ИНТЕНСИВНОСТИ ШУМА

|              |                                                                                     |                                                                                     |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| COD.         |  |  |
| <b>51263</b> | 600                                                                                 | 1                                                                                   |

CE | 12M | IEC 61010

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                  |              |
|-------------------------------------------------------------------------------------------|--------------|
| Hz                                                                                        | 31,5-8000 Hz |
| dB                                                                                        | 30-130 dB    |
| Función fijación de datos / Data hold function / Fonction mémorisation des renseignements | ●            |
| Alimentación / Power / Poids                                                              | 6 V (4 x AA) |
| Max./Min.                                                                                 | ●            |
| Pantalla retroiluminada / Back light display / Écran à rétro-éclairage                    | ●            |
| Gráfico analógico / Analogue bar graph / Graphique analogique                             | ●            |
| Precisión / Accuracy / Précision                                                          | ±1,5 dB      |
| Memoria datos / Data logging / Mémoire de données                                         | 63           |



12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

## EGATRONIK

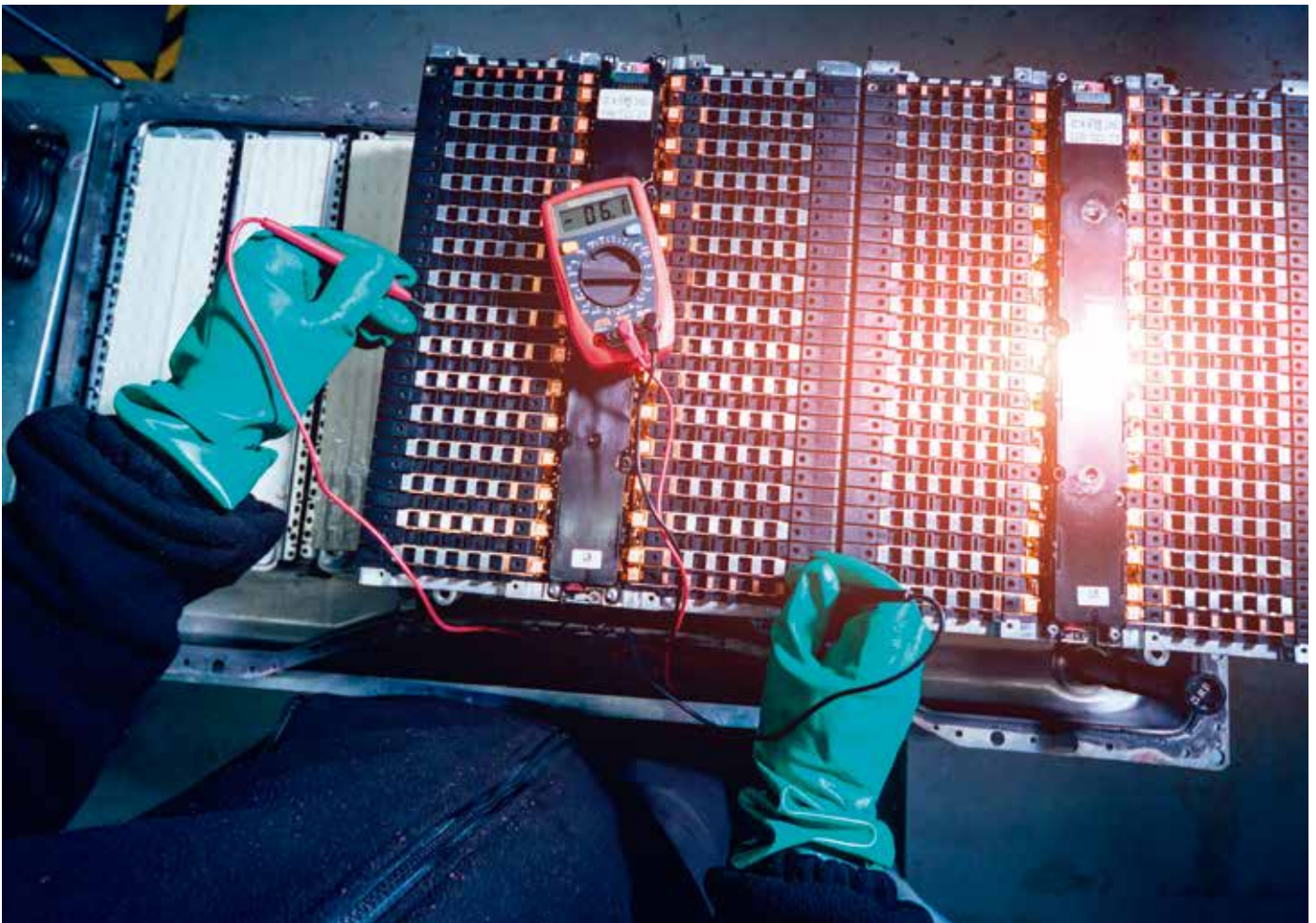
CERTIFICADOS DE CALIBRACIÓN / CALIBRATION CERTIFICATES / CERTIFICATS DE CALIBRAGE / KALIBRIERUNGSZERTIFIKATE / CERTIFICATO DI CALIBRAZIONE /  
CERTIFICADOS DE CALIBRAÇÃO / ПОВЕРОЧНЫЕ СЕРТИФИКАТЫ

EXTERNA / EXTERNAL / EXTERNE / EXTERN / ESTERNO / EXTERNO / ВНЕШНИЙ

| COD.  | ENAC |
|-------|------|
| 99990 | ENAC |

INTERNA / INTERNAL / INTERNE / INTERN / INTERNO / INTERNO / ВНУТРЕННИЙ

| COD.  |
|-------|
| 99989 |





32

**ELECTRICIDAD**  
**ELECTRICIAN TOOLS**  
**OUTILLAGE D'ELECTRICIEN**  
**WERKZEUGE FÜR ELEKTRIKER**  
**UTENSILI PER ELETTRICISTI**  
**ELECTRICIDADE**  
**ИНСТРУМЕНТ ДЛЯ ЭЛЕКТРИКОВ**



El corte de bridas mediante el uso de tijeras puede dañar los cables. Este es de hecho el principal causante de averías y retrasos, además de un potencial riesgo para la seguridad.

El cortabridas de EGA Master permite cortar bridas de manera rápida y sencilla, sin dañar los cables que sujetan:

*The use of scissors to cut ties can result in wire damage. This is, in fact, the main cause of faults and delays in industrial applications. It is also a potential safety hazard.*

*The EGA Master plastic tie cutter cuts ties in an easy and quick way, and without damaging the wires.*

La pince coupe colliers plastiques via l'usage de ciseaux peut endommager les câbles. En effet, c'est la principale cause de pannes et retards, outre un risque potentiel pour la sécurité.

La pince coupe colliers plastiques d'EGA Master permet de couper des brides d'une manière rapide et facile, sans endommager les câbles qu'elles retiennent.



1

El diseño especial de sus puntas permite cortar bridas sin dañar los cables que sujetan.

*The special design of the blades allows cutting the very tightly held cable-ties without damaging the cables.*

La forme spécifique des extrémités des becs de la pince, permet de couper les colliers sans endommager les câbles.

2

Indispensable en automoción, aviación, línea blanca, electricidad y redes de datos, donde el uso de tijeras puede provocar el deterioro involuntario de los cables, lo que hace incurrir en serios problemas de seguridad y costos de resolución.

*Compulsory in the automotive, aviation, white line, electricity and network industries where the use of scissors or knives can involuntarily damage the cables and incur serious safety problems and resolution costs.*

Indispensable dans l'automobile, l'aviation, les lignes électriques, l'électricité et les réseaux, où l'utilisation de ciseaux peut blesser involontairement les câbles; ce qui peut provoquer un problème de sécurité et de surcoût de montage.



3

Además nos permite cortar cable de hasta 10 mm de diámetro gracias a su longitud de corte.

*It allows cutting cables of up to 10 mm in diameter.*

En plus il nous permet de couper un câble de jusqu'à 10 mm de diamètre grâce à sa longueur de coupe.

Con las tijeras se dañan los cables.

Con el cortabridas de EGA Master se cortan las bridas con seguridad.

*Scissors and knives damage the cables.*

*With Ega Master's new plastic tie cutter you can cut the cable-ties safely.*

Avec les ciseaux on endommage les câbles.

Avec le coupe brides d'EGA Master les brides sont coupées avec sécurité.



**ALICATES PARA TERMINALES / CRIMPING PLIERS FOR TERMINALS / PINCES À SERTIR LES COSSES / KABELKLEMMZANGE / PINZA PER CAPICORDA / ALICATE PARA CRAVAR TERMINAIS / ОБЖИМНЫЕ КЛЕЩИ**

**PARA TERMINALES AISLADOS / FOR INSULATED TERMINALS / POUR TERMINAUX ISOLES / FÜR ISOLIERTE KABELSCHUHE / PER TERMINALI ISOLATI / PARA TERMINAIS ISOLADOS / ДЛЯ ИЗОЛИРОВАННЫХ КОНТАКТОВ**

| COD.         | L (mm) | AWG                          | (mm)                                     | CAP. (mm <sup>2</sup> )                 | DIN (mm <sup>2</sup> )         |     |   |   |  |
|--------------|--------|------------------------------|------------------------------------------|-----------------------------------------|--------------------------------|-----|---|---|--|
| <b>62493</b> | 200    | 10-12-<br>14-16-<br>18-20-22 | 2,59-2,05-1,63-1,29-1,02-<br>0,812-0,644 | 5,26-3,31-2,08-1,31-0,82-<br>0,52-0,324 | 6-4-2,5-<br>1,5-1-0,75-<br>0,5 | 175 | 6 | ● |  |



| COD.         | L (inch) | AWG   | (mm)       | CAP. (mm <sup>2</sup> ) | DIN (mm <sup>2</sup> ) |     |   |   |  |
|--------------|----------|-------|------------|-------------------------|------------------------|-----|---|---|--|
| <b>62591</b> | 9        | 22-10 | 0,644-2,59 | 0,324-5,26              | 0,5-6                  | 550 | 6 | ● |  |



**PARA UNIÓN DE CABLES AISLADOS Y NO AISLADOS / FOR CABLE LINKS INSULATED & NO INSULATED / POUR UNION DE CABLES ISOLES ET NON ISOLES / FÜR ISOLIERTE UND NICHT ISOLIERTE KABELSCHUHE / PER UNIRE CAVI ISOLATI E NON ISOLATI / PARA UNIÃO DE CABOS ISOLADOS E NÃO ISOLADOS / ДЛЯ ИЗОЛИРОВАННЫХ И НЕИЗОЛИРОВАННЫХ КОНТАКТОВ**

| COD.         | L (mm) | AWG                          | (mm)                                     | CAP. (mm <sup>2</sup> )                 | DIN (mm <sup>2</sup> )         |     |   |   |  |
|--------------|--------|------------------------------|------------------------------------------|-----------------------------------------|--------------------------------|-----|---|---|--|
| <b>62494</b> | 220    | 10-12-<br>14-16-<br>18-20-22 | 2,59-2,05-1,63-1,29-1,02-<br>0,812-0,644 | 5,26-3,31-2,08-1,31-0,82-<br>0,52-0,324 | 6-4-2,5-<br>1,5-1-0,75-<br>0,5 | 190 | 6 | ● |  |



| COD.         | L (inch) | AWG   | (mm)       | CAP. (mm <sup>2</sup> ) | DIN (mm <sup>2</sup> ) |     |   |   |  |
|--------------|----------|-------|------------|-------------------------|------------------------|-----|---|---|--|
| <b>62594</b> | 7.1/2    | 26-14 | 0,405-1,63 | 0,129-2,08              | 0,5-2,5                | 360 | 6 | ● |  |



**PARA TERMINALES NO AISLADOS / FOR NOT INSULATED TERMINALS / POUR TERMINAUX NON ISOLES / FÜR NICHT ISOLIERTE KABELSCHUHE / PER TERMINALI NON ISOLATI / PARA TERMINAIS NÃO ISOLADOS / ДЛЯ НЕИЗОЛИРОВАННЫХ КОНТАКТОВ**

| COD.         | L (inch) | AWG                | (mm)                           | CAP. (mm <sup>2</sup> )       | DIN (mm <sup>2</sup> ) |     |   |   |  |
|--------------|----------|--------------------|--------------------------------|-------------------------------|------------------------|-----|---|---|--|
| <b>62593</b> | 7.1/2    | 22-20-18-<br>16-14 | 0,644-0,812-<br>1,02-1,29-1,63 | 0,324-0,52-<br>0,82-1,31-2,08 | 0,5-0,76-1-<br>1,5-2,5 | 350 | 6 | ● |  |



**PARA TERMINALES AISLADOS DE COLORES / FOR COLOR INSULATED TERMINALS / POUR TERMINAUX ISOLES DE COULEUR / FÜR FARBISOLIERTE KABELSCHUHE / PER TERMINALI ISOLATI COLORATI / PARA TERMINAIS ISOLADOS DE CORES / ДЛЯ ЦВЕТНЫХ ИЗОЛИРОВАННЫХ КОНТАКТОВ**

| COD.         | L (inch) | AWG                | (mm)                           | CAP. (mm <sup>2</sup> )       | DIN (mm <sup>2</sup> ) |     |   |   |  |
|--------------|----------|--------------------|--------------------------------|-------------------------------|------------------------|-----|---|---|--|
| <b>62592</b> | 7.1/2    | 22-20-18-<br>16-14 | 0,644-0,812-<br>1,02-1,29-1,63 | 0,324-0,52-<br>0,82-1,31-2,08 | 0,5-0,75-1-<br>1,5-2,5 | 350 | 6 | ● |  |



**PARA CONECTORES COAX-BNC-TNC / FOR COAX-BNC-TNC CONNECTORS / POUR CONNECTEURS COAX-BNC-TNC / FÜR COAX-BNC-TNC VERBINDER / PER CONNETTORI COAX-BNC-TNC / PARA CONECTORES COAXIAIS BNC-TNC / ДЛЯ КОНТАКТОВ COAX-BNC-TNC**

| COD.         | L (inch) | CAP.                                                                          |     |   |   |  |
|--------------|----------|-------------------------------------------------------------------------------|-----|---|---|--|
| <b>62597</b> | 9        | 58, 59, 62, 8X   140, 141, 174   210, 223, 303, 400   FIBER OPTIC BELDEN 8279 | 550 | 6 | ● |  |



**PARA TERMINALES DE TELÉFONO / FOR PHONE TERMINALS / POUR TERMINAUX TELEPHONIQUES / FÜR TELEFONKABEL / PER TERMINALE TELEFONISTI / PARA TERMINAIS DE TELEFONE / ДЛЯ ТЕЛЕФОННЫХ КОНТАКТОВ**

| COD.         | L (inch) | CAP.                                                               |     |   |   |  |
|--------------|----------|--------------------------------------------------------------------|-----|---|---|--|
| <b>62595</b> | 8        | 4P2C, 4P4C, 6P4C (RJ-11), 6P6C (RJ-12), 8P8C, 10P6C, 10P8C (RJ-45) | 500 | 6 | ● |  |



| COD.         | L (inch) | CAP.                             |     |   |   |  |
|--------------|----------|----------------------------------|-----|---|---|--|
| <b>62596</b> | 7.1/2    | 6P4C, 6P6C (RJ-11), 8P8C (RJ-45) | 260 | 6 | ● |  |



**TIJERAS Y PELACABLES / SCISSORS AND CABLE STRIPPERS / CISEAUX ET PINCES À DÉNUDER / SCHERE UND KABELSTREIFER / FORBICI E SPELACAVI / TESOURAS E DESCARNADORES / НОЖНИЦЫ И КЛЕЩИ ДЛЯ ЗАЧИСТКИ ПРОВОДОВ**

**PELACABLES AUTOMÁTICO / AUTOMATIC WIRE STRIPPER / PINCE À DÉNUDER AUTOMATIQUE / AUTOMATISCHE ABISOLIERZANGE / PUNZA SPELAFILI AUTOMATICA / ALICATE DECAPADOR AUTOMÁTICO / АВТОМАТИЧЕСКИЙ КАБЕЛЕРЕЗ**

| COD.  | AWG            | (mm)                     | CAP. (mm <sup>2</sup> )  | DIN (mm <sup>2</sup> ) |     |   |       |
|-------|----------------|--------------------------|--------------------------|------------------------|-----|---|-------|
| 63865 | 24-16-14-12    | 0,511-1,29-1,63-2,05     | 0,205-1,31-2,08-3,31     | 0,25-1,5-2,5-4         |     |   | 63870 |
| 63866 | 18-14-12-10-8  | 1,02-1,63-2,05-2,59-3,26 | 0,82-2,08-3,31-5,26-8,37 | 1-2,5-4-6-10           | 360 | 6 | 63871 |
| 63867 | 17-16-14-12-10 | 1,15-1,29-1,63-2,05-2,59 | 1,04-1,31-2,08-3,31-5,26 | 1,25-1,5-2,5-4-6       |     |   | 63872 |



**PELAMANGUERAS / DISMANTLING TOOL / OUTIL À DÉGAINER / ABMANTELUNGSWERKZEUG / SPELACAVI / DECAPADOR LINEAR - HELICOIDAL / ИНСТРУМЕНТ ДЛЯ РАЗБОРКИ**

| COD.  | L (mm) | (mm)   |     |   |   |       |
|-------|--------|--------|-----|---|---|-------|
| 63875 | 135    | 4,5-25 | 130 | 8 | ● | 63873 |

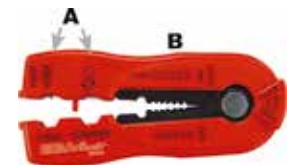


**PELACABLES / CABLE STRIPPER / PINCES À DÉNUDER / ABISOLIERZANGE / SPELAFILI / DECAPADOR DE CABOS / СТРИППЕР**

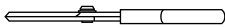
| COD.  |               |               | (mm)        |   | AWG       |     |
|-------|---------------|---------------|-------------|---|-----------|-----|
| 63863 | Ø max 9,5 (A) | Ø max 9,5 (A) | 0,2-0,8 (B) | 1 | 20-30 (B) | 120 |
| 63862 |               |               | 0,8-2,6 (B) |   | 10-20 (B) |     |

Corte longitudinal / Longitudinal cut /  
 Coupe longitudinalement

Corte perimetral / Perimetral cut /  
 Coupe circulaire



**TIJERA ELECTRICISTA / ELECTRICIAN'S SCISSORS / CISEAUX ÉLECTRICIEN / ELEKTRIKERSCHERE / FORBICI PER ELETTRICISTI / TESOURA ELETTRICISTA / ЭЛЕКТРИЧЕСКИЕ НОЖНИЦЫ**



| COD.  | L (mm) |     |   |   |
|-------|--------|-----|---|---|
| 69534 | 145    | 100 | 8 | ● |



| COD.  | L (mm) |     |   |   |
|-------|--------|-----|---|---|
| 69535 | 145    | 105 | 8 | ● |



**CORTACABLES / CABLE CUTTERS / COUPE-CABLES / KABELSCHNEIDER / TAGLIACAVI / CORTA-CABOS / КАБЕЛЕРЕЗ**

**CORTACABLES DE CARRACA / RATCHET ELECTRICIAN CABLE CUTTER / COUPE-CABLES A CLIQUETS / KABELSCHNEIDER MIT RATSCHER / TAGLIACAVI A CRICCO / CORTA CABOS DE ROQUETE PARA ELETTRICISTA / КАБЕЛЕРЕЗ ТРЕЩЕТОЧНЫЙ**

| COD.  | L (mm) |    | Cu (mm <sup>2</sup> ) | Al (mm <sup>2</sup> ) |      |   |
|-------|--------|----|-----------------------|-----------------------|------|---|
| 62618 | 590    | 70 | 800                   | 1000                  | 3500 | 1 |



**TENAZAS CORTACABLES / CABLE CUTTERS / COUPE-CABLES / KABELSCHNEIDER / CESCOIE PER CAVI / TESOURAS CORTA CABOS / КАБЕЛЕРЕЗЫ**

| COD.  | L (mm) | L (inch) |   | Cu/Al (mm <sup>2</sup> ) |     |   |   |
|-------|--------|----------|---|--------------------------|-----|---|---|
| 62284 | 150    | 6        | 9 | 63                       | 160 | 6 | ● |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Para cobre y aluminio / For copper & aluminum / Pour cuivre et aluminum

| COD.  | L (mm) | L (inch) |    | Cu/Al (mm <sup>2</sup> ) |     |   |   |
|-------|--------|----------|----|--------------------------|-----|---|---|
| 62151 | 250    | 10       | 12 | 63                       | 490 | 6 | ● |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Para cobre y aluminio / For copper & aluminum / Pour cuivre et aluminum

| COD.         | L (mm) | L (inch) | O.D.<br>mm | Cu/Al (mm <sup>2</sup> ) | Kg  |   |
|--------------|--------|----------|------------|--------------------------|-----|---|
| <b>62164</b> | 600    | 24       | 14         | 154                      | 1,7 | 1 |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Para cobre y aluminio / For copper & aluminum / Pour cuivre et aluminum

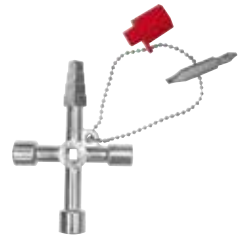
**REPUESTOS / SPARE PARTS / RECHANGES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

| COD.         | Descripción / Description /<br>Description | L (mm) | L (inch) | Válido para / Valid for / Valable<br>pour |
|--------------|--------------------------------------------|--------|----------|-------------------------------------------|
| <b>64055</b> | Cuchilla / Blade / Lame                    | 600    | 24       | 62164                                     |



**LLAVES PARA ARMARIO / CABINET KEYS / CLÉS POUR ARMOIRE / SCHRANKSCHLÜSSEL / CHIAVI PER LAVABI / CHAVE PARA ARMÁRIO / КЛЮЧИ ДЛЯ ЯЩИКОВ**

| COD.         | L (mm) | mm    | mm | mm | mm | mm      | mm  | mm   | mm | mm | mm | mm |
|--------------|--------|-------|----|----|----|---------|-----|------|----|----|----|----|
| <b>65866</b> | 44     | 6/8   | 9  | 9  | -  | 1.0 x 7 | PH2 | 1/4" | 50 | 8  | •  |    |
| <b>65867</b> | 76     | 5/6/8 | 9  | 9  | -  | 1.0 x 7 | PH2 | 1/4" | 80 | 8  | •  |    |



| COD.         | L (mm) | mm    | mm | mm | mm      | mm      | mm  | mm   | mm | mm | mm | mm |
|--------------|--------|-------|----|----|---------|---------|-----|------|----|----|----|----|
| <b>65868</b> | 90     | 5/7/8 | 9  | -  | 6/7/8/9 | 1.0 x 7 | PH2 | 1/4" | 75 | 8  | •  |    |

**PINZAS / TWEEZERS / BRUCELLES / GREIFFPINZETTEN / PINZETTE DI PRECISIONE / PINÇAS / ПИНЦЕТЫ**

**ACERO INOXIDABLE / STAINLESS STEEL / INOX / ACCIAIO INOX / AÇO INOXIDAVEL / AÇO INOXIDÁVEL / ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ**

| COD.         | L (mm) | g  |    |   |
|--------------|--------|----|----|---|
| <b>69530</b> | 115    | 15 | 25 | • |



| COD.         | L (mm) | g  |    |   |
|--------------|--------|----|----|---|
| <b>69532</b> | 120    | 15 | 25 | • |






| COD.         | L (mm) | g  |    |   |
|--------------|--------|----|----|---|
| <b>69533</b> | 110    | 15 | 25 | • |



| COD.         | L (mm) | g  |    |   |
|--------------|--------|----|----|---|
| <b>69531</b> | 120    | 15 | 25 | • |





## SET

| COD.         | PCS. |  |  |  |
|--------------|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>69529</b> | 4    | 70                                                                                | 12                                                                                | ●                                                                                  |
|              | PCS. |                                                                                   |                                                                                   | COD. PCS.                                                                          |
|              | 1    |                                                                                   |                                                                                   | 69530                                                                              |
|              |      |                                                                                   |                                                                                   | 69532                                                                              |
|              |      |                                                                                   |                                                                                   | 69533                                                                              |
|              |      |                                                                                   |                                                                                   | 69531                                                                              |




## SET


| COD.         | PCS. | Dimensiones / Dimensions / Dimensions |  |
|--------------|------|---------------------------------------|------------------------------------------------------------------------------------|
| <b>76678</b> | 5    | 320 x 190 x 280                       | 780                                                                                |

 1000V | IEC 60900

| PCS. | COD. PCS. | Descripción / Description / Description                                                   |                  |
|------|-----------|-------------------------------------------------------------------------------------------|------------------|
|      | 76607     | Alicate universal Mastercut Titacrom® Bimat / Mastercut Titacrom® Bimat combination plier | 180 mm           |
|      | 76621     | Destornillador electricista Mastertork / Electrician Mastertork screwdriver               | 3 x 100 mm       |
| 1    | 76629     | Destornillador Phillips® Mastertork / Phillips® Mastertork screwdriver                    | PH-1, 5 x 100 mm |
|      | 62493     | Alicate para terminales aislados / For insulated terminals plier                          | 200 mm           |
|      | 66074     | Buscapolos digital / Digital voltage tester                                               | 160 mm           |







| COD.         | PCS. | Dimensiones / Dimensions / Dimensions |  |
|--------------|------|---------------------------------------|--------------------------------------------------------------------------------------|
| <b>76679</b> | 4    | 320 x 190 x 280                       | 700                                                                                  |

 1000V | IEC 60900

| PCS. | COD. PCS. | Descripción / Description / Description                                                   |                  |
|------|-----------|-------------------------------------------------------------------------------------------|------------------|
|      | 76607     | Alicate universal Mastercut Titacrom® Bimat / Mastercut Titacrom® Bimat combination plier | 180 mm           |
|      | 76621     | Destornillador electricista Mastertork / Electrician Mastertork screwdriver               | 3 x 100 mm       |
| 1    | 76622     | Destornillador Phillips® Mastertork / Phillips® Mastertork screwdriver                    | 4 x 125 mm       |
|      | 76629     | Destornillador Phillips® Mastertork / Phillips® Mastertork screwdriver                    | PH-1, 5 x 100 mm |


## NAVAJA / PENKNIFE / COUTEAU / TASCHENMESSER / COLTELLI / NAVALHA / СКЛАДНЫЕ НОЖИ

| COD.         |  |  |  |  |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>65388</b> | 70                                                                                  | 92                                                                                  | 60                                                                                  | 24                                                                                   |
| <b>69525</b> | 84                                                                                  | 111                                                                                 | 65                                                                                  | 10                                                                                   |
| <b>69526</b> | 73                                                                                  | 120                                                                                 | 105                                                                                 | 12                                                                                   |



**HERRAMIENTA PARA BRIDAS / TOOLS FOR PLASTIC TIES / PINCES POUR COLLIERS PLASTIQUES / WERKZEUGE FÜR KUNSTOFFBINDER / UTENSILE PER FASCETTE / FERRAMENTA PARA ABRAÇADEIRAS PLÁSTICAS / ИНСТРУМЕНТ ДЛЯ ПЛАСТИКОВЫХ ХОМУТОВ-СТЯЖЕК**

**ALICATE AUTOMÁTICO PARA BRIDAS / AUTOMATIC PLIERS FOR PLASTIC CABLE-TIES / PINCE POUR COLLIERS PLASTIQUES AUTOMATIQUE / KABELBINDERZANGE / SPELAFILI AUTOMATICA / ALICATE AUTOMÁTICO PARA ABRAÇADEIRAS PLÁSTICAS / АВТОМАТИЧЕСКИЕ КУСАЧКИ ДЛЯ СВЯЗКИ ПЛАСТИКОВЫХ КАБЕЛЕЙ**

| COD.         | L (mm) |  |  |  |
|--------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>62602</b> | 160    | 2,2-4,8                                                                           | 290                                                                               | 1                                                                                  |



**CORTABRIDAS / PLASTIC TIE CUTTER / PINCE COUPE COLLIERS PLASTIQUES / KABELBINDER SCHNEIDER / PINZA TAGLIA FASCETTE IN NYLON / CORTA-ABRAÇADEIRA / РЕЗАК ДЛЯ ПЛАСТИКОВЫХ ХОМУТОВ**



| COD.         | L (mm) |  |  |  |
|--------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>63915</b> | 150    | 100                                                                               | 6                                                                                 | ●                                                                                  |

RCD N° 2029504 | Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Corta bridas sin dañar los cables / It cuts the ties without damaging the cables / Il coupe les colliers plastiques sans abîmer les cables



**EXPOSITOR / DISPLAY / PRÉSENTOIR / DISPLAY / ESPOSITORI / DISPLAY STAND / СТЕНДЫ**

36 PCS.

| COD.         | PCS.      |
|--------------|-----------|
| <b>55644</b> | 36        |
|              |           |
| PCS.         | COD. PCS. |
| 36           | 63915     |





**BUSCAPOLOS / VOLTAGE TESTER / TESTEUR / SPANNUNGSPRÜFER / CERCAFASE / BUSCA-POLOS / ИЗМЕРИТЕЛЬ НАПРЯЖЕНИЯ**

**BUSCAPOLOS / VOLTAGE TESTER / TESTEUR / SPANNUNGSPRÜFER / CERCAFASE / BUSCA-POLOS / ИЗМЕРИТЕЛЬ НАПРЯЖЕНИЯ**






| COD.         | L (mm) |  | V          |  |  |  |
|--------------|--------|-------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>66073</b> | 190    | 3 x 15                                                                              | 100-250 AC | 30                                                                                  | 12                                                                                  | ●                                                                                     |






**CLASSIC**

| COD.         | L (mm) |  |  | V          |  |  |  |
|--------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>66070</b> | 140    | 65                                                                                  | 3                                                                                   | 100-250 AC | 20                                                                                  | 12                                                                                  | ●                                                                                     |



| COD.         | L (mm) |  |  | V          |  |  |  |
|--------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>66071</b> | 190    | 100                                                                                 | 4                                                                                   | 100-250 AC | 35                                                                                  | 12                                                                                  | ●                                                                                     |
| <b>66069</b> |        |                                                                                     | 3,5                                                                                 | 90-480 AC  | 40                                                                                  |                                                                                     |                                                                                       |

**BUSCARPOLOS DIGITAL / DIGITAL VOLTAGE TESTER / TESTEUR DIGITAL / DIGITAL SPANNUNGSPRÜFER / CERCAFASE DIGITALE / BUSCA-POLOS DIGITAL / ЦИФРОВОЙ ИЗМЕРИТЕЛЬ НАПРЯЖЕНИЯ**

| COD.         | L (mm) |  | V           |  |  |  |
|--------------|--------|-----------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>66074</b> | 160    | 3 x 15                                                                            | 0-220 AC/DC | 40                                                                                | 4                                                                                 | ●                                                                                   |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

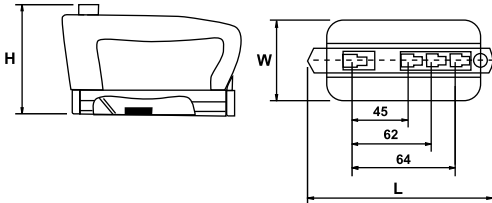
5 niveles de tensión / 5 voltage levels / 5 niveaux de tension

**TESTER ELECTRÓNICO MEDIDOR DE TENSION 2 EN 1 / ELECTRONIC TESTER 2 IN 1 / TESTEUR ELECTRONIQUE A MESURE DE TENSION 2 EN 1 / SPANNUNGSPRÜFER ELEKTRONIK, 2 IN 1 / TESTER ELECTRONICO 2 IN 1 / MEDIDOR DE TENSÃO 2 EM 1 / ЭЛЕКТРОННЫЙ ТЕСТЕР 2 В 1**

| COD.         | L (mm) | V        |  |  |  |
|--------------|--------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>66075</b> | 190    | 6-380 AC | 220                                                                               | 4                                                                                 | ●                                                                                   |



**SACAFUSIBLES / FUSE HANDLE / ARRACHE FUSIBLE / SICHERUNGSGRIFF / SMONTA FUSIBILI / SACA-FUSÍVEIS / СЪЁМНИК ДЛЯ ПРЕДОХРАНИТЕЛЕЙ**






| COD.         | NH (L mm)                                               | Dimensiones / Dimensions / Dimensions |  |  |
|--------------|---------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>63864</b> | NH000 (45) / NH00 (45) / NH0 (62) / NH3 (62) / NH4 (64) | 154 x 65 x 93                         | 165                                                                                   | 6                                                                                     |



**SOLDADURA ELÉCTRICA / SOLDERING / SOUDURE ÉLECTRIQUE / ELEKTROSCHWEISSEN / SALDATURA ELETTRICA / SOLDADURA ELÉTRICA / ЭЛЕКТРОСВАРКА**




**SOLDADOR CILÍNDRICO / SOLDERING IRON / SOUDEUR Á L'ÉTAİN / LÖTKOLBEN / SALDATORI A STAGNO / SOLDADOR ESTANHADOR / ПАЯЛЬНИК**

| COD.         | V                  | W  | °C  | L (mm) |  |  |  |
|--------------|--------------------|----|-----|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>63252</b> | 220-240V (50-60Hz) | 30 | 300 | 200    | Euro                                                                                | 75                                                                                  | ●                                                                                     |
| <b>63254</b> | 220-240V (50-60Hz) | 60 | 380 | 230    |                                                                                     |                                                                                     |                                                                                       |
| <b>63270</b> | 110-130V (50-60Hz) | 40 | 350 |        | American                                                                            |                                                                                     |                                                                                       |



CE | 12M

**PISTOLA PARA SOLDAR / SOLDERING IRON GUN / PISTOLET Á SOUDER / LÖTPISTOLE / PISTOLA PER SILDARE / PISTOLA DE SOLDAR / ПИСТОЛЕТ ПАЯЛЬНИК**


| COD.         | V                  | W  | °C  |  |  |  |
|--------------|--------------------|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>63255</b> | 220-240V (50-60Hz) | 60 | 380 | Euro                                                                                | 75                                                                                  | ●                                                                                     |



CE | 12M

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Con alimentador / With feeder / Avec alimentateur

| COD.         | V                  | W   | Hz | Incluye / Includes / Inclus                                                                                                          |  | Presentación / Presentation / Présentation |
|--------------|--------------------|-----|----|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------|
| <b>63269</b> | 220-240V (50-60Hz) | 100 | 50 | 3 puntas INOX, Rollo estañar, Pasta decapante / 3 tips INOX, Soldering roil, Flux / 3 lames INOX, Rouleau d'étain, Décapant à coller | 1000                                                                                | Estuche / Case / Étui                      |



CE | 12M

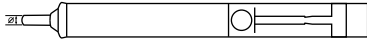
**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Longitud de cable / Length of cable / Longueur du câble 1,5 m

**12M** GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ



**DESOLDADOR CON BOQUILLA ANTIESTÁTICA / DESOLDERING PUMP WITH ANTI-STATIC RUBBER NOZZLE / POMPE À DESSOLDER / ABLÖTPUMPE MIT ANTI-STATIC GUMMI SPITZE / POMPETTA PER DISSALDARE / CHUPA SOLDAS COM BORRACHA ANTI-ESTÁTICA PARA SOLDADURA / НАСОС ДЛЯ РАСПАЙКИ И АНТИСТАТИЧЕСКИМ РЕЗИНОВЫМ НОСИКОМ**



| COD.  | L (mm) | Ø D.<br>mm | g  |   |
|-------|--------|------------|----|---|
| 63256 | 170    | 5          | 55 | ● |



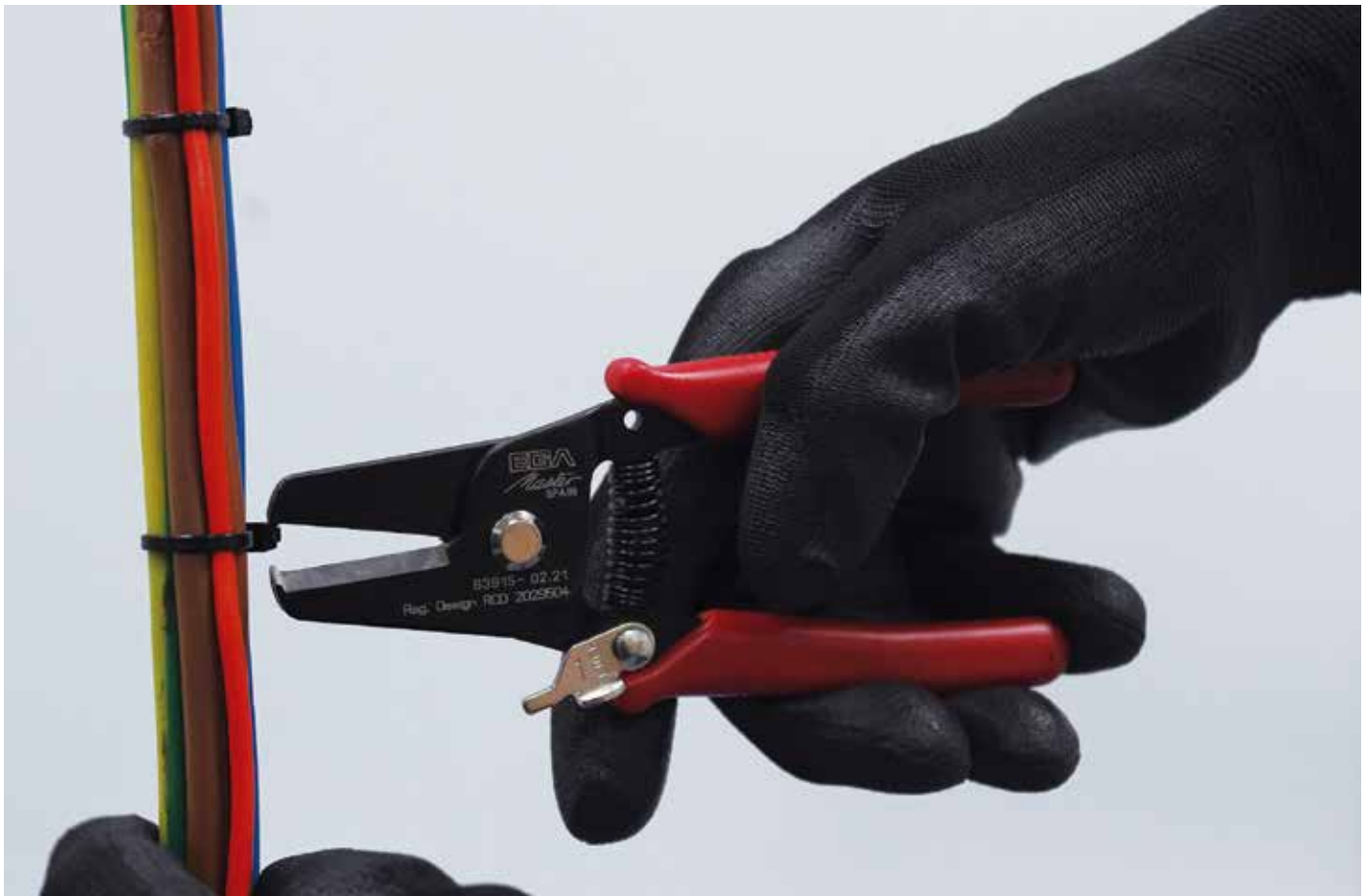
**SOPORTE PARA SOLDADOR DE ESTAÑO / BASE FOR SOLDERING IRON / SUPPORT POUR SOUDEUR A L'ETAIN / LÖTKOLBEN HALTER / SUPPORTO PER SALDATORE / SUPORTE PARA SOLDADOR DE ESTANHO / ПОДСТАВКА ДЛЯ ПАЯЛЬНИКА**

| COD.  | g   |   |
|-------|-----|---|
| 63257 | 250 | ● |



**ROLLO DE ESTAÑO PARA SOLDAR / SOLDERING ROLL / ROULEAU D'ÉTAIN À SOUDER / LÖTDRAHT / ROCCHETTO DI STAGNO PER SILDARE / ROLO DE ESTANHO PARA SOLDAR / ПРИПОЙ**

| COD.  | L (m) | Composición / Composition / Composition | Ø D.<br>mm | g   |   |   |
|-------|-------|-----------------------------------------|------------|-----|---|---|
| 63260 | 62    | Sn-0,3Ag-0,7Cu                          | 1,2        | 500 | 2 | ● |
| 63272 | 110   |                                         |            | 900 |   |   |



# PROYECTOS PRINCIPALES

## MAIN PROJECTS

### PRINCIPAUX PROJETS



**MINERA CHINALCO / CHINALCO MINING COMPANY /  
MINIÈRE CHINALCO**  
**CON EGAWARE / WITH EGAWARE / AVEC EGAWARE**  
PERÚ / PERU / PÉROU



33

1000V



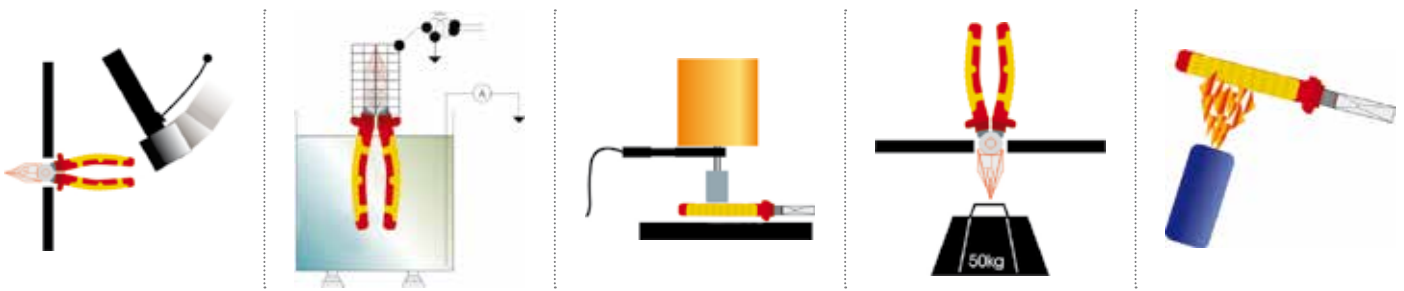
 1000V  
IEC 60900

## 1000V IEC 60900

**EGA Master ofrece una extensísima colección de herramientas de seguridad aisladas 1000V: alicates, destornilladores, llaves ajustables, cortacables de carraca, pinzas, cuchillos, tenazas, llaves fijas y de estrella, llaves de vaso (con sus correspondientes accesorios y juegos), arcos de sierra, etc.**

*EGA Master offers a huge range of safety 1000V insulated handtools: pliers, screwdrivers, adjustable wrenches, tweezers, knives, sockets, spanners, hacksaws...*

**EGA Master offre une vaste gamme d'outils isolés 1000V: pinces, tournevis, clés réglables, brucelles, couteaux, douilles, clés, scies à métaux...**



Test de impacto  
Impact test  
Test d'impact

Test dieléctrico a 10.000V  
Dielectric test at 10.000V  
Test dielectrique à 10.000V

Test de penetración  
Penetration test  
Test de penetration

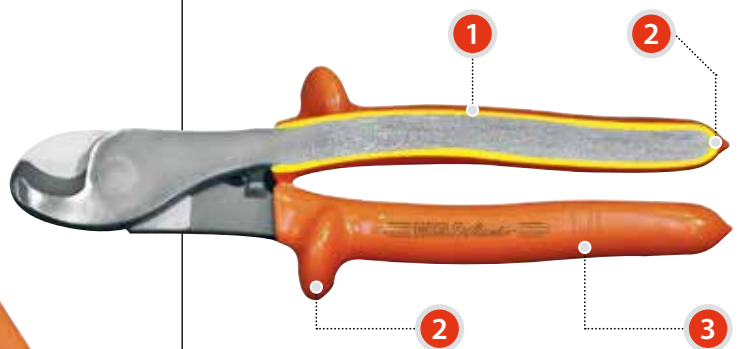
Test de adherencia de mangos  
Testing of adhesiveness  
Test d'adherence klebtest

Test de no propagación de llama  
Heat resistance test  
Test de combustibilité

Las herramientas aisladas de EGA Master cumplen con la normativa IEC 60900, siendo sometidas todas ellas al test dieléctrico a 10.000V (es decir, a una intensidad 10 veces mayor de la certificada). Las herramientas son objeto también de los tests de adherencia, penetración dieléctrica, impacto y propagación de llama de acuerdo a la rigurosa norma europea.

*EGA Master insulated tools comply with IEC 60900 international standard, each one of the pieces being tested at 10,000V (10 times the voltage we certify). They are also tested rigorously according to what the norms establishes: adherence test, impact test, flame propagation test and dielectric penetration test.*

Les outils isolés d'EGA Master sont conformes au norme IEC 60900. Chaque pièce est testée à 10.000V (nous certifions 10 fois la tension). Elles sont rigoureusement testées suivant les normes établies: essai d'adhérence, essai au choc, essai de propagation de flamme et essai de pénétration diélectrique.



1

El doble aislamiento de PVC duro-blando ofrece máxima adherencia y seguridad ante posibles imprevistos.

*Double hard-soft PVC insulation provides maximum adherence and safety.*

La double isolation de PVC Dur-souple offre une adhérence optimale et une sécurité contre les imprévus.

2

Guardamanos y extremidades anti-choque.

*Anti-shock guards and ends.*  
Poignées et extrémités anti-chocs.

3

Marcado láser indeleble.

*Un-erasable laser marking.*  
Marquage Laser indélébile.

### PRINCIPALES CAMPOS DE APLICACIÓN MAIN APPLICATION FIELDS PRINCIPALES DOMAINES D'APPLICATION

|                                                                                                                           |                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Instaladores eléctricos<br><i>Electrical installation</i><br>Électriciens                                                 | Redes de baja tensión<br><i>Low Voltage networks</i><br>Réseaux de basse tension |
| Centrales eléctricas<br><i>Power plants</i><br>Centrales électriques                                                      | Telecomunicaciones<br><i>Telecommunications</i><br>Télécommunications            |
| Estaciones y subestaciones eléctricas<br><i>Electric stations and substations</i><br>Stations et subdivisions électriques | Mantenimiento eléctrico<br><i>Electric maintenance</i><br>Maintenance électrique |
| Redes de alta tensión<br><i>High Voltage networks</i><br>Réseaux hautes tensions                                          | Bomberos<br><i>Fire-fighters</i><br>Pompiers                                     |
| Instalación y reparación de alumbrado<br><i>Lighting installation and repair</i><br>Voiries et réseaux divers (VRD)       |                                                                                  |

**PRECAUCIONES  
CAUTION  
PRÉCAUTIONS**

- No emplear nunca la herramienta en aplicaciones bajo tensión si la protección presenta poros, fisuras, elementos incrustados o se ve la capa inferior de color amarillo.  
*Don't ever use tools under voltage if they present pores, fissures, encrusted elements or if the yellow insulation layer is visible.*  
Ne jamais utiliser l'outillage en tension si la protection semble poreuse, présente des fissures, que des corps étrangers sont incrustés ou que la couche inférieure est jaune.
- Se recomienda emplear suelos aislantes y calzado de seguridad en trabajos bajo tensión.  
*Insulating floors and safety shoes are recommended to work under voltage.*  
Pour des travaux sous tension, nous recommandons de travailler avec des tapis isolants et des chaussures de sécurité.
- Evite el contacto con agua mientras realice trabajos bajo tensión.  
*Avoid contact with water while working under voltage.*  
Éviter tout contact avec l'eau lors de réalisation des travaux de sous tension.
- No tocar directamente ninguna pieza susceptible de estar bajo tensión. Emplear un comprobador de tensión o tester.  
*Do not ever touch directly any item that may be under voltage. Use a voltage tester to check first.*  
Ne jamais toucher directement, une pièce susceptible d'être sous tension.

## CERTIFICADO DE HERRAMIENTAS AISLADAS VDE CERTIFICATE OF VDE INSULATED TOOLS CERTIFICAT D'OUTILS ISOLÉS VDE

**VDE Prüf- und Zertifizierungsinstitut**

### ZEICHGENEHEMIGUNG MARKS APPROVAL

**EGA MASTER S.L.**  
Zorrolleta St. 11  
Jundiz Industrial Estate  
01015 VITORIA  
Spain

ist berechtigt, für ihr Produkt /  
is authorized to use for their product

**Zange, isoliert  
Pliers, insulated**

die hier abgebildeten markenrechtlich geschützten Zeichen  
für die ab Blatt 2 aufgeführten Typen zu benutzen /  
the legally protected Marks as shown below for the types referred to on page 2 ff.

Geprüft und zertifiziert nach /  
Tested and certified according to

DIN EN IEC 60900 (VDE 0682-201):2019-04; EN IEC 60900:2018  
DIN EN IEC 60900 Ber. 1 (VDE 0682-201 Ber. 1):2020-11; EN IEC 60900:2018/AC:2020-05

Das Produkt entspricht den Anforderungen des deutschen Produktsicherheitsgesetzes (ProdSG) hinsichtlich der Gewährleistung von Sicherheit und Gesundheit.  
The product covers the requirements of the German Act "Produktsicherheitsgesetz (ProdSG)" regarding the assurance of safety and health.

Befristet zum / valid until: 2027-01-31

Aktenzeichen: 2176300-3940-0011 / 290575  
File ref.:  
Ausweis-Nr. 40029860 Blatt 1  
Certificate No. Page  
Weitere Bedingungen siehe Rückseite und Folgeblätter /  
further conditions see overleaf and following pages  
Offenbach, 2010-04-15  
(letzte Änderung / updated 2022-02-28)

VDE Prüf- und Zertifizierungsinstitut GmbH  
VDE Testing and Certification Institute  
Zertifizierungsstelle / Certification

VDE Zertifikate sind nur gültig bei Veröffentlichung unter:  
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**VDE**

**VDE Prüf- und Zertifizierungsinstitut**

### ZEICHGENEHEMIGUNG MARKS APPROVAL

**EGA MASTER S.L.**  
Zorrolleta St. 11  
Jundiz Industrial Estate  
01015 VITORIA  
Spain

ist berechtigt, für ihr Produkt /  
is authorized to use for their product

**Schere, isoliert  
Scissors, insulated**

die hier abgebildeten markenrechtlich geschützten Zeichen  
für die ab Blatt 2 aufgeführten Typen zu benutzen /  
the legally protected Marks as shown below for the types referred to on page 2 ff.

Geprüft und zertifiziert nach /  
Tested and certified according to

DIN EN IEC 60900 (VDE 0682-201):2019-04; EN IEC 60900:2018

Das Produkt entspricht den Anforderungen des deutschen Produktsicherheitsgesetzes (ProdSG) hinsichtlich der Gewährleistung von Sicherheit und Gesundheit.  
The product covers the requirements of the German Act "Produktsicherheitsgesetz (ProdSG)" regarding the assurance of safety and health.

Befristet zum / valid until: 2025-11-30

Aktenzeichen: 2176300-3940-0014 / 276284  
File ref.:  
Ausweis-Nr. 40036649 Blatt 1  
Certificate No. Page  
Weitere Bedingungen siehe Rückseite und Folgeblätter /  
further conditions see overleaf and following pages  
Offenbach, 2014-04-22  
(letzte Änderung / updated 2020-10-22)

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VDE Testing and Certification Institute  
Zertifizierungsstelle / Certification

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**VDE Prüf- und Zertifizierungsinstitut**

### ZEICHGENEHEMIGUNG MARKS APPROVAL

**EGA MASTER S.L.**  
Zorrolleta St. 11  
Jundiz Industrial Estate  
01015 VITORIA  
Spain

ist berechtigt, für ihr Produkt /  
is authorized to use for their product

**Schraubendreher, isoliert  
Screwdriver, insulated**

die hier abgebildeten markenrechtlich geschützten Zeichen  
für die ab Blatt 2 aufgeführten Typen zu benutzen /  
the legally protected Marks as shown below for the types referred to on page 2 ff.

Geprüft und zertifiziert nach /  
Tested and certified according to

DIN EN IEC 60900 (VDE 0682-201):2019-04; EN IEC 60900:2018

Das Produkt entspricht den Anforderungen des deutschen Produktsicherheitsgesetzes (ProdSG) hinsichtlich der Gewährleistung von Sicherheit und Gesundheit.  
The product covers the requirements of the German Act "Produktsicherheitsgesetz (ProdSG)" regarding the assurance of safety and health.

Befristet zum / valid until: 2028-05-31

Aktenzeichen: 2176300-3940-0013 / 282707  
File ref.:  
Ausweis-Nr. 40003802 Blatt 1  
Certificate No. Page  
Weitere Bedingungen siehe Rückseite und Folgeblätter /  
further conditions see overleaf and following pages  
Offenbach, 2014-04-22  
(letzte Änderung / updated 2021-06-30)

VDE Prüf- und Zertifizierungsinstitut GmbH  
VDE Testing and Certification Institute  
Zertifizierungsstelle / Certification

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**VDE**

**VDE Prüf- und Zertifizierungsinstitut**

### ZEICHGENEHEMIGUNG MARKS APPROVAL

**EGA MASTER S.L.**  
Zorrolleta St. 11  
Jundiz Industrial Estate  
01015 VITORIA  
Spain

ist berechtigt, für ihr Produkt /  
is authorized to use for their product

**Schraubendreher, isoliert  
Screwdriver, insulated**

die hier abgebildeten markenrechtlich geschützten Zeichen  
für die ab Blatt 2 aufgeführten Typen zu benutzen /  
the legally protected Marks as shown below for the types referred to on page 2 ff.

Geprüft und zertifiziert nach /  
Tested and certified according to

DIN EN IEC 60900 (VDE 0682-201):2019-04; EN IEC 60900:2018

Das Produkt entspricht den Anforderungen des deutschen Produktsicherheitsgesetzes (ProdSG) hinsichtlich der Gewährleistung von Sicherheit und Gesundheit.  
The product covers the requirements of the German Act "Produktsicherheitsgesetz (ProdSG)" regarding the assurance of safety and health.

Befristet zum / valid until: 2025-10-31

Aktenzeichen: 2176300-3940-0015 / 276285  
File ref.:  
Ausweis-Nr. 40036649 Blatt 1  
Certificate No. Page  
Weitere Bedingungen siehe Rückseite und Folgeblätter /  
further conditions see overleaf and following pages  
Offenbach, 2016-11-17  
(letzte Änderung / updated 2020-11-24)

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Zertifizierungsstelle / Certification

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**VDE Prüf- und Zertifizierungsinstitut**

### ZEICHGENEHEMIGUNG MARKS APPROVAL

**EGA MASTER S.L.**  
Zorrolleta St. 11  
Jundiz Industrial Estate  
01015 VITORIA  
Spain

ist berechtigt, für ihr Produkt /  
is authorized to use for their product

**Isoliertes Schraubenschlüssel  
Insulated wrench**

die hier abgebildeten markenrechtlich geschützten Zeichen  
für die ab Blatt 2 aufgeführten Typen zu benutzen /  
the legally protected Marks as shown below for the types referred to on page 2 ff.

Geprüft und zertifiziert nach /  
Tested and certified according to

DIN EN IEC 60900 (VDE 0682-201):2019-04; EN IEC 60900:2018

Das Produkt entspricht den Anforderungen des deutschen Produktsicherheitsgesetzes (ProdSG) hinsichtlich der Gewährleistung von Sicherheit und Gesundheit.  
The product covers the requirements of the German Act "Produktsicherheitsgesetz (ProdSG)" regarding the assurance of safety and health.

Befristet zum / valid until: 2022-11-30

Aktenzeichen: 2176300-3940-0016 / 276286  
File ref.:  
Ausweis-Nr. 40036649 Blatt 1  
Certificate No. Page  
Weitere Bedingungen siehe Rückseite und Folgeblätter /  
further conditions see overleaf and following pages  
Offenbach, 2014-03-26  
(letzte Änderung / updated 2020-11-19)

VDE Prüf- und Zertifizierungsinstitut GmbH  
VDE Testing and Certification Institute  
Zertifizierungsstelle / Certification

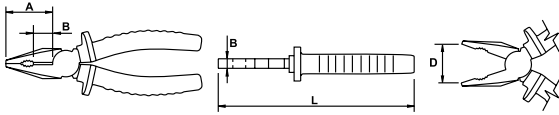
VDE Zertifikate sind nur gültig bei Veröffentlichung unter:  
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**VDE**

■ **ALICATES / PLIERS / PINCES / ZANGEN / PINZE / ALICATES / ПЛОСКОГУБЦЫ**

■ **TITACROM® BIMAT 1000V**

■ **UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALE / UNIVERSAIS / КОМБИНИРОВАННЫЕ**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |     |     |     |   |   |
|--------------|--------|--------|--------|--------|--------|-----|-----|-----|-----|---|---|
| <b>76582</b> | 165    | 36     | 15     | 10     | 38     | 3   | 2   | 1,5 | 240 |   |   |
| <b>76583</b> | 180    | 38     | 14     | 11     | 41     | 3,5 | 2,2 |     | 280 | 6 | ● |
| <b>76584</b> | 200    | 43     | 17     | 12     | 50     | 4   | 2,5 | 2   | 330 |   |   |

**TITACROM® BIMAT** IEC 60900 | DIN 5746

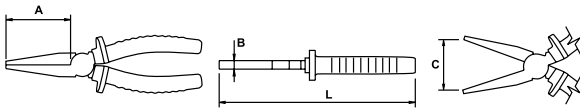
Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



■ **BOCA PLANA / FLAT NOSE / BECS PLATS / FLACHZANGEN / BECCHI PIATTI / PONTAS CHATAS / УТКОНОСЫ**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) |     |   |   |
|--------------|--------|--------|--------|--------|-----|---|---|
| <b>76589</b> | 160    | 55     | 8,5    | 40     | 170 | 6 | ● |

**TITACROM® BIMAT** IEC 60900 | DIN 5745

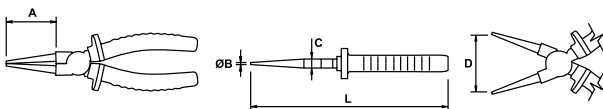
Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



■ **BOCA REDONDA / ROUND NOSE / BECS RONDOS / RUNDZANGEN / BECCHI TONDI / PONTAS REDONDAS / КРУГЛОГУБЦЫ**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |   |   |
|--------------|--------|--------|--------|--------|--------|-----|---|---|
| <b>76590</b> | 160    | 41     | 2      | 10     | 39     | 160 | 6 | ● |

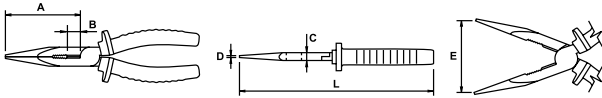
**TITACROM® BIMAT** IEC 60900 | DIN 5745







Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**TELEFONISTA / LONG NOSE / TÉLÉPHONE / TELEFONZANGEN / TELEFONISTI / TELEFONISTA / СУДЛИННЕННЫМИ НОСАМИ**


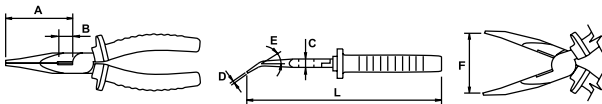
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|--------------|--------|--------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>76591</b> | 160    | 48     | 12     | 9,5    | 2,3    | 50     | 2,5                                                                               | 1,6                                                                               | 1                                                                                 | 170                                                                               | 6                                                                                  | •                                                                                   |
| <b>76592</b> | 200    | 70     | 14     | 10,5   | 2,6    | 80     | 3,2                                                                               | 2,2                                                                               | 1,5                                                                               | 210                                                                               | 6                                                                                  | •                                                                                   |







**TITACROM<sup>®</sup> B/MAT**   1000V | IEC 60900 | DIN 5745

Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V


**TELEFONISTA BOCA CURVA / BENT NOSE PLIERS / TÉLÉPHONE BECS COUDÉS / TELEFONZANGEN GEBOGEN / TELEFONISTI BECCHI PIEGATI / TELEFONISTA PONTAS CURVAS / C ИЗОГНУТЫМИ НОСАМИ**


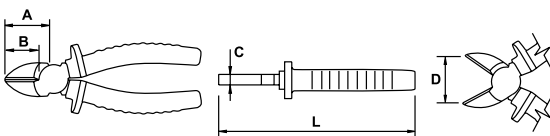
| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (°) | F (mm) |  |  |  |  |  |  |
|--------------|--------|--------|--------|--------|--------|-------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>76593</b> | 160    | 41     | 12     | 9,0    | 2,7    | 32    | 47     | 2,5                                                                               | 1,6                                                                               | 1                                                                                 | 160                                                                               | 6                                                                                  | •                                                                                   |
| <b>76594</b> | 200    | 65     | 14     | 11     | 3,3    | 32    | 70     | 3,2                                                                               | 2,2                                                                               | 1,5                                                                               | 210                                                                               | 6                                                                                  | •                                                                                   |







**TITACROM<sup>®</sup> B/MAT**   1000V | IEC 60900 | DIN 5745

Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V


**CORTE DIAGONAL / DIAGONAL CUTTING PLIERS / COUPANTES DIAGONALES / SEITENSCHNEIDER / TAGLIO LATERALE / CORTE DIAGONAL / УДЛИННЕННЫЕ ТОНКИЕ**


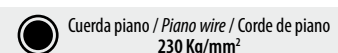
| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |  |  |  |  |  |  |
|--------------|--------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>76595</b> | 160    | 25     | 20     | 10     | 25     | 3                                                                                   | 2,2                                                                                 | 1,5                                                                                 | 205                                                                                 | 6                                                                                    | •                                                                                     |
| <b>76596</b> | 190    | 32     | 26     | 11     | 29     | 3,2                                                                                 | 2,5                                                                                 | 2                                                                                   | 250                                                                                 | 6                                                                                    | •                                                                                     |

**TITACROM<sup>®</sup> B/MAT**   1000V | DIN 5749 | IEC 60900

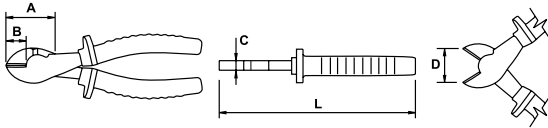
Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**CORTE DIAGONAL REFORZADO / HEAVY DUTY CUTTING NIPPERS / COUPANTES RENFORCEÉS / VERSTÄRKTER SEITENSCHNEIDER / TAGLIO LATERALE RINFORZATO / CORTE DIAGONAL REFORÇADO / УСИЛЕННЫЕ БОКОРЕЗЫ**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |     |     |     |   |   |
|--------------|--------|--------|--------|--------|--------|-----|-----|-----|-----|---|---|
| <b>76597</b> | 180    | 43     | 21     | 11     | 25     | 3,2 | 2,5 | 2   | 350 | 6 | • |
| <b>76598</b> | 200    | 48     | 21     | 11     | 21     | 3,5 | 2,7 | 2,2 | 380 | 6 | • |

**TITACROM<sup>®</sup> B/MAT** 1000V | IEC 60900 | DIN 5749

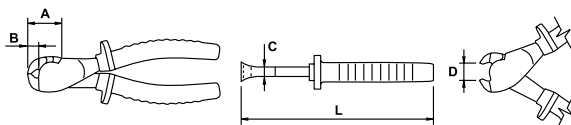
Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**CORTE FRONTAL / END CUTTING NIPPER / COUPANTES DEVANT / VORSCHNEIDER / TAGLIO FRONTALE / CORTE FRONTAL / КЛЕЩИ**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |   |     |   |     |   |   |
|--------------|--------|--------|--------|--------|--------|---|-----|---|-----|---|---|
| <b>76599</b> | 160    | 27     | 9      | 11     | 9      | 3 | 2,5 | 2 | 250 | 6 | • |

**TITACROM<sup>®</sup> B/MAT** 1000V | IEC 60900 | DIN 5748

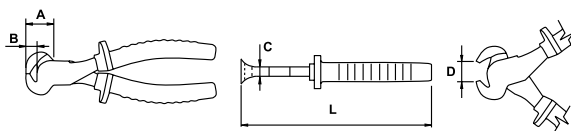
Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**CORTE FRONTAL ELECTRICISTA / END CUTTING NIPPER (ELECTRICIAN) / COUPANTES DEVANT ELECTRICIEN / ELEKTRIKER VORSCHNEIDER / TAGLIO FRONTALE PER ELETTRICISTI / CORTE FRONTAL ELETTRICISTA / КЛЕЩИ (ЭЛЕКТРИЧЕСКИЕ)**



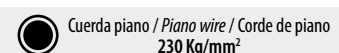
| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |     |     |   |     |   |   |
|--------------|--------|--------|--------|--------|--------|-----|-----|---|-----|---|---|
| <b>76600</b> | 160    | 20     | 9      | 11     | 19     | 3   | 2,3 | 2 | 250 | 6 | • |
| <b>76602</b> | 200    | 22     | 11     | 14     | 19     | 3,5 | 2,8 | 2 | 410 | 6 | • |

**TITACROM<sup>®</sup> B/MAT** 1000V | IEC 60900 | DIN 5748

Modelo registrado / Registered model / Modèle enregistré

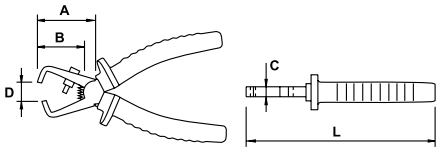
**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V





**RELACABLES / WIRESTRIPPER / PINCES À DÉNUDER / ABISOLIERZANGEN / PINZE SPELAFILI / DECAPADORES / КЛЕЩИ ДЛЯ ЗАЧИСТКИ КОНТАКТОВ**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | O.D. mm | g   | mm | mm | mm |
|--------------|--------|--------|--------|--------|--------|---------|-----|----|----|----|
| <b>76603</b> | 160    | 44     | 37     | 9      | 21     | 0,5-6   | 170 | 6  |    | •  |

**TITACROM® BIMAT** 1000V | IEC 60900 | DIN 5743

Modelo registrado / Registered model / Modèle enregistré



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**KITS**



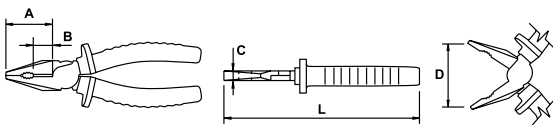
| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76604</b> | 3    |   |   |
| <b>76605</b> |      |   |   |

**TITACROM® BIMAT**

| PCS. | COD.  | PCS.   |
|------|-------|--------|
| 1    | 76607 | 180 mm |
|      | 76616 |        |
|      | 76603 | 160 mm |

**MASTERCUT TITACROM® BIMAT 1000V**

**UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALE / UNIVERSAIS / КОМБИНИРОВАННЫЕ**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | mm  | mm  | mm  | g   | mm | mm |
|--------------|--------|--------|--------|--------|--------|-----|-----|-----|-----|----|----|
| <b>76606</b> | -      | 165    | 35     | 14     | 10     | 3,5 | 2,5 | 2   | 220 | 6  | •  |
| <b>76607</b> |        | 180    | 40     | 16     | 50     | 4   |     |     | 230 |    |    |
| <b>76609</b> |        | 210    | 44     | 19     | 11     | 60  | 4,5 | 2,8 | 280 |    |    |



**TITACROM® BIMAT** 1000V | IEC 60900 | DIN 5746

Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

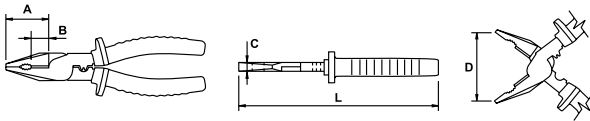
Cr-V

Blando / Soft / Tendre  
20 Kg/mm<sup>2</sup>

Medio / Medium / Moyen  
75 Kg/mm<sup>2</sup>

Duro / Hard / Dur  
180 Kg/mm<sup>2</sup>

Cuerda piano / Piano wire / Corde de piano  
230 Kg/mm<sup>2</sup>



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |   |   |     |     |   |   |
|--------------|--------|--------|--------|--------|--------|---|---|-----|-----|---|---|
| <b>76611</b> | 235    | 43     | 19     | 13     | 55     | 5 | 3 | 2,5 | 380 | 6 | ● |

**TITACROM<sup>®</sup> Bimat** 1000V | IEC 60900 | DIN 5746

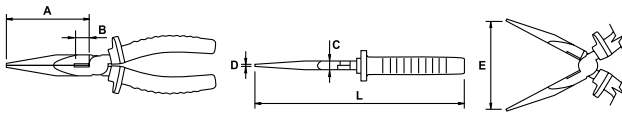
Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**TELEFONISTA / LONG NOSE / TÉLÉPHONE / TELEFONZANGEN / TELEFONISTI / TELEFONISTA / СУДЛИННЕННЫМИ НОСАМИ**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) |     |     |     |     |   |   |
|--------------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|---|---|
| <b>76612</b> | 160    | 55     | 11     | 9,5    | 2,5    | 46     | 3   | 2   | 1,5 | 170 | 6 | ● |
| <b>76613</b> | 200    | 75     | 15     | 9,5    | 3      | 70     | 3,5 | 2,5 | 2   | 210 | 6 | ● |

**TITACROM<sup>®</sup> Bimat** 1000V | IEC 60900 | DIN 5745

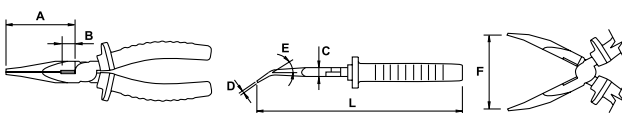
Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**TELEFONISTA BOCA CURVA / BENT NOSE PLIERS / TÉLÉPHONE BECS COUDÉS / TELEFONZANGEN GEBOGEN / TELEFONISTI BECCHI PIEGATI / TELEFONISTA PONTAS CURVAS / С ИЗГНУТЫМИ НОСАМИ**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (°) | F (mm) |     |     |     |     |   |   |
|--------------|--------|--------|--------|--------|--------|-------|--------|-----|-----|-----|-----|---|---|
| <b>76614</b> | 160    | 50     | 13     | 9,5    | 3      | 32    | 41     | 3   | 2   | 1,5 | 170 | 6 | ● |
| <b>76615</b> | 200    | 75     | 14     | 9,5    | 3      | 32    | 90     | 3,5 | 2,5 | 2   | 210 | 6 | ● |

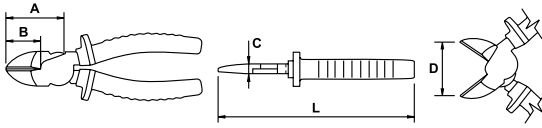
**TITACROM<sup>®</sup> Bimat** 1000V | DIN 5745 | IEC 60900







Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



**CORTE DIAGONAL / DIAGONAL CUTTING PLIERS / COUPANTES DIAGONALES / SEITENSCHNEIDER / TAGLIO LATERALE / CORTE DIAGONAL / УДЛИНЕННЫЕ ТОНКИЕ**


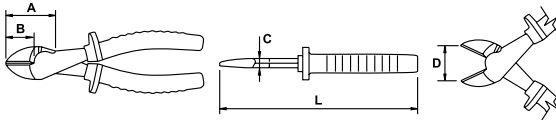
| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |  |  |  |  |  |  |
|--------------|--------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>76616</b> | 160    | 37     | 23     | 11     | 35     | 3                                                                                 | 2,5                                                                               | 2                                                                                 | 210                                                                               | 6                                                                                  | •                                                                                   |
| <b>76617</b> | 190    | 40     | 25     |        | 29     | 3,5                                                                               | 2,7                                                                               | 2,2                                                                               | 250                                                                               |                                                                                    |                                                                                     |








**TITACROM<sup>®</sup> Bimat**  1000V | DIN 5749 | IEC 60900

Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**CORTE DIAGONAL REFORZADO / HEAVY DUTY CUTTING NIPPERS / COUPANTES RENFORCÉES / VERSTÄRKTER SEITENSCHNEIDER / TAGLIO LATERALE RINFORZATO / CORTE DIAGONAL REFORÇADO / УСИЛЕННЫЕ БОКОРЕЗЫ**


| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |  |  |  |  |  |  |
|--------------|--------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>76618</b> | 180    | 40     | 21     | 12     | 24     | 3,5                                                                                 | 2,7                                                                                 | 2,2                                                                                 | 350                                                                                 | 6                                                                                    | •                                                                                     |
| <b>76619</b> | 200    |        |        |        | 22     | 4                                                                                   | 3                                                                                   | 2,5                                                                                 | 380                                                                                 |                                                                                      |                                                                                       |


**TITACROM<sup>®</sup> Bimat**  1000V | DIN 5749 | IEC 60900

Modelo registrado / Registered model / Modèle enregistré

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**ALICATE DE PRESIÓN / PRESSURE PLIER / PINCE DE PRÉHENSION / KLEMMZANGE / PINZA A PRESSIONE / ALICATE TIPO UNIVERSAL ISOLADO / СЖИМАЮЩИЕ КЛЕЦКИ**


| COD.         | L (mm) |  |
|--------------|--------|-------------------------------------------------------------------------------------|
| <b>73248</b> | 200    | 90                                                                                  |

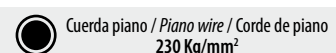
 1000V | IEC 60900

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**


Para el montaje y bloqueo de contadores / For meter assembly and meter blocking / Conçue pour le montage et le verrouillage des compteurs

**ALICATES AISLANTES CON ZONA DE CORTE / INSULATING COMPOSITE CUTTING PLIERS / PINCES ISOLANTES AVEC ZONE DE COUPE / ARBEITSKOPFBESCHICHTETE ZANGEN / PINZE ISOLATI CON ZONA DI TAGLIO / ALICATE DE CORTA ISOLADO EM COMPOSITE / ИЗОЛИРОВАННЫЕ КОМПОЗИТНЫЕ ПЛОСКОГУБЦЫ**
**UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALE / UNIVERSAIS / КОМБИНИРОВАННЫЕ**

| COD.         | L (mm) | Cu (mm <sup>2</sup> ) |  |
|--------------|--------|-----------------------|-------------------------------------------------------------------------------------|
| <b>36779</b> | 210    | 16                    | 170                                                                                 |


 1000V | IEC 60900


**BOCAS SEMI-REDONDAS / HALF ROUND NOSE / TÊTES DEMI-RONDES / LANGBECK-FLACHZANGE / BECCHI MEZZI TONDI / BOCAS SEMI-REDONDAS / ЗАКРУГЛЕННЫЕ ГУБКИ**

| COD.         | L (mm) | Cu (mm <sup>2</sup> ) |  |
|--------------|--------|-----------------------|-----------------------------------------------------------------------------------|
| <b>36780</b> | 235    | 16                    | 180                                                                               |


 1000V | IEC 60900

**BOCA PLANA / FLAT NOSE / BECS PLATS / FLACHZANGEN / BECCHI PIATTI / PONTAS CHATAS / УТКОНОСЫ**

| COD.         | L (mm) | Cu (mm <sup>2</sup> ) |  |
|--------------|--------|-----------------------|-----------------------------------------------------------------------------------|
| <b>36781</b> | 220    | 16                    | 175                                                                               |

 1000V | IEC 60900

**CORTACABLES / CABLE-CUTTER / COUPE CÂBLES / KABELSCHNEIDER / TAGLIACAVI / CORTA-CABOS / КАБЕЛЕРЕЗ**

| COD.         | L (mm) | Cu (mm <sup>2</sup> ) |  |
|--------------|--------|-----------------------|-----------------------------------------------------------------------------------|
| <b>36778</b> | 185    | 25                    | 250                                                                               |

 1000V | IEC 60900

**GRAPA / INSULATING CLAMP / AGRAFE / KLEMMZANGE ISOLIERT / MORSETTO ISOLATO / GRAMPO ISOLADO / ИЗОЛИРОВАННЫЕ КЛЕЩИ**

| COD.         | L (mm) | Capacidad de agarre (mm) / Clamping capacity (mm) / Capacité d'adhérence (mm) |  |
|--------------|--------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>73249</b> | 150    | 15                                                                            | 75                                                                                  |

 1000V | IEC 60900





**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Para sujeción de las mantas aislantes / For holding insulating mats in place / Pour fixer des nappes isolantes





**ELECTRICIDAD / ELECTRICIAN TOOLS / OUTILLAGE D'ÉLECTRICIEN / ELEKTRIKERMESSEER / FERRAMENTI PER ELETTRICISTI / ELECTRICIDADE / ИНСТРУМЕНТ ДЛЯ ЭЛЕКТРИКА**
**ALICATE PARA UNIÓN DE CABLES AISLADOS Y NO AISLADOS / PLIER FOR CABLE LINKS INSULATED & NON INSULATED / PINCE POUR UNION DE CABLES ISOLES ET NON ISOLES / ZANGE FÜR ISOLIERTE UND NICHT ISOLIERTE KABELSCHUHE / PINZE PER UNIRE CAVI ISOLATI E NON ISOLATI / ALICATE PARA UNIÃO DE CABOS ISOLADOS E NÃO ISOLADOS / КЛЕЩИ ДЛЯ ИЗОЛИРОВАННЫХ И НЕИЗОЛИРОВАННЫХ КОНТАКТОВ**

| COD.         | L (mm) | CAP. (mm <sup>2</sup> ) |  |  |  |
|--------------|--------|-------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>73257</b> | 230    | 0,75-6                  | 250                                                                                 | 6                                                                                   | •                                                                                     |


**TIJERAS / TIN SNIPS / CISAILLES / BLECHSCHERE / FORBICI / TESOURAS / НОЖНИЦЫ ДЛЯ ЖЕСТИ**

| COD.         |  | L (mm) |  |  |
|--------------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>79057</b> |  | 160    | 100                                                                                 | •                                                                                    |

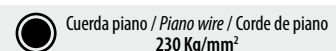
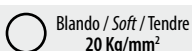
 1000V | IEC 60900



| COD.         |  | L (mm) |  |  |
|--------------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>79058</b> |  | 160    | 100                                                                                 | •                                                                                    |

 1000V | IEC 60900

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Muesca pequeña / Small breach / Petite brèche



| COD.         | L (mm) |  |  |
|--------------|--------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>79059</b> | 160    | 100                                                                               | •                                                                                  |




 1000V | IEC 60900

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Muesca grande / Big breach / Grande brèche






**CORTACABLES DE CARRACA / RATCHET ELECTRICIAN CABLE CUTTER / COUPE-CABLES À CLIQUET / KABELSCHNEIDER MIT RATSCHER / TAGLIACAVI CRICCO PER ELETTRICI / CORTA CABOS DE ROQUETE PARA ELETRICISTA / КАБЕЛЕРЕЗЫ С ТРЕЩЕТОЧНЫМ МЕХАНИЗМОМ**

| COD.         | L (mm) | Cu (mm <sup>2</sup> ) | Al (mm <sup>2</sup> ) |  |  |  |
|--------------|--------|-----------------------|-----------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>73010</b> | 260    | 240                   | 300                   | 32                                                                                | 600                                                                               | 3                                                                                   |
| <b>73011</b> | 380    | 400                   | 600                   | 52                                                                                | 800                                                                               | 6                                                                                   |

 1000V | IEC 60900





| COD.         | L (mm) | Cu (mm <sup>2</sup> ) | Al (mm <sup>2</sup> ) |  |  |  |
|--------------|--------|-----------------------|-----------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>73504</b> | 500    | 800                   | 1000                  | 70                                                                                | 3700                                                                              | 1                                                                                   |

 1000V | IEC 60900




**PELACABLES / CABLE STRIPPER / PINCES À DÉNUDER / ABISOLIERZANGE / SPELACAVI / DECAPADOR DE CABOS / СТРИПЕР**

| COD.         | L (mm) |  | Espesor / Thickness / Épaisseur |  |
|--------------|--------|------------------------------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------|
| <b>73088</b> | 245    | 25-45                                                                              | 2                               | 550                                                                                 |

 1000V | IEC 60900



**PELACABLES PARA CABLES XLPE / WIRE STRIPPER FOR XLPE CABLES / PINCE À DÉNUDER POUR CÂBLES XLPE / ABISOLIERZANGE FÜR VPE-KABEL / SPELAFILI PER CAVI XLPE / ALICATE DESCARNADOR PARA XLPE / КЛЕЩИ ДЛЯ СНЯТИЯ ИЗОЛЯЦИИ С КАБЕЛЕЙ XLPE**

| COD.         | L (mm) |  |
|--------------|--------|-------------------------------------------------------------------------------------|
| <b>62121</b> | 280    | 670                                                                                 |

 1000V | IEC 60900



**PINZAS / TWEEZERS / BRUCELLES / GREIFPINZETTEN / PINZETTE DI PRECISIONE / PINÇAS / ПИНЦЕТЫ**

| COD.         | L (mm) |  |  |  |
|--------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>73040</b> | 130    | 15                                                                                  | 12                                                                                  | •                                                                                    |

 1000V | IEC 60900

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Boca fina / Neat Tips / Becs Fins

| COD.         | L (mm) |  |  |  |
|--------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>73041</b> | 150    | 15                                                                                  | 12                                                                                  | •                                                                                    |

 1000V | IEC 60900

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

45°



**CUCHILLOS / KNIVES / COUTEAUX / MESSER / COLTELLI / FACA / НОЖИ**

| COD.         | L (mm) |  |  |  |
|--------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>73035</b> | 170    | 50                                                                                  | 110                                                                                 | 12                                                                                   |

 1000V | IEC 60900

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Recto / Straight / Droit



| COD.         | L (mm) |  |  |  |
|--------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>73036</b> | 180    | 30                                                                                | 100                                                                               | 12                                                                                 |

 1000V | IEC 60900

#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Curvo / Curved / Coudé



| COD.         | L (mm) |  |  |  |
|--------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>74990</b> | 190    | 50                                                                                | 100                                                                               | 12                                                                                 |

 1000V | IEC 60900



#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Curvo / Curved / Coudé

Cuchilla curva con punta especial para pelar cables de forma segura / Curved blade with special bit for cable stripping / Avec une pointe spéciale afin de dénuder les câbles de façon sûre



#### BOQUILLAS ENCHUFABLES / PLASTIC SLIP-ON CLAPS / EMBOUTS DE SÉCURITÉ / KUNSTSTOFF-ÜBERZIEH-GRIFFE / UGELLI SLIP-STOP / PROTECTORES DE ENCAIXE PARA CABLE / ПЛАСТИКОВЫЕ РУКОЯТКИ

| COD.         | L (mm) | Conductor / Drive / Conducteur |  |  |
|--------------|--------|--------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>73277</b> | 100    | 1 #                            | 10                                                                                | 10                                                                                 |
| <b>73278</b> |        | 2 #                            |                                                                                   |                                                                                    |
| <b>73279</b> |        | 3 #                            |                                                                                   |                                                                                    |

 1000V | IEC 60900 | DIN VDE 0680/1

#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Para protección contra puntas desnudas de cables en tensión / To cover bare live cable ends / Protège contre le contact avec des conducteurs dénudés sous tension



#### BOQUILLAS DE AUTOFIJACIÓN / SELF CLAMPING SLIP-ON CLAPS / EMBOUTS DE SÉCURITÉ AUTOBLOQUANTS / SELBSTKLEMMENDE KUNSTSTOFF-ÜBERZIEH-GRIFFE / UGELLI AUTOBLOCCANTI / PROTECTORES DE ENCAIXE AUTOMÁTICO PARA CABLE / ПЛАСТИКОВЫЕ РУКОЯТКИ САМОФИКСИРУЮЩИЕСЯ

| COD.         | L (mm) |  |  |
|--------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>73287</b> | 80     | 10                                                                                  | 7                                                                                   |

 1000V | IEC 60900 | DIN VDE 0680/1

#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Para protección contra puntas desnudas de cables en tensión / To cover bare live cable ends / Protège contre le contact avec des conducteurs dénudés sous tension



| COD.         | L (mm) |  |  |
|--------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>73288</b> | 100    | 20                                                                                  | 24                                                                                  |

 1000V | IEC 60900 | DIN VDE 0680/1

#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Para protección contra puntas desnudas de cables en tensión / To cover bare live cable ends / Protège contre le contact avec des conducteurs dénudés sous tension



| COD.         | L (mm) |  |  |
|--------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>73289</b> | 110    | 30                                                                                  | 38                                                                                  |

 1000V | IEC 60900 | DIN VDE 0680/1

#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Para protección contra puntas desnudas de cables en tensión / To cover bare live cable ends / Protège contre le contact avec des conducteurs dénudés sous tension



**TENAZAS / PINCERS / TENAILLES / ZANGE / TENAGLIE / ALICATES / КЛЕЩИ**
**DE CANAL / BOX JOINT / MULTIPRISE ENTREPASSÉE / WASSERPUMPENZANGE / PINZE REGOLABILI / BICO DE PAPAGAIO / ШАРНИРНЫЕ**

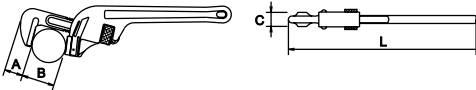
| COD.  | L (inch) | g   |   |   |
|-------|----------|-----|---|---|
| 73004 | 10       | 450 |   |   |
| 73005 | 12       | 600 | 6 | • |



**PICO DE LORO / GROOVE JOINT / MULTIPRISE À CRÉMAILLÈRE / WASSERPUMPENZANGE / PINZE REGOLABILI / BICO DE PAPAGAIO / С ЖЕЛОБКОВЫМ МЕХАНИЗМОМ**

| COD.  | L (inch) | g   |   |   |
|-------|----------|-----|---|---|
| 73001 | 10       | 450 |   |   |
| 73012 | 12       | 720 | 6 | • |



**LLAVE HEAVY DUTY CURVA / OFFSET HEAVY DUTY PIPE WRENCH / CLÉ SERRE-TUBES HEAVY DUTY COUDEE / GEKRÖPFTE ROHRZANGE / GIRATUBI MODELLO AMERICANO CURVO / CHAVE HEAVY DUTY INCLINADA / ИЗОГНУТЫЕ ТРУБНЫЕ КЛЮЧИ ДЛЯ БОЛЬШИХ НАГРУЗОК**


| COD.  | L (inch) | A (mm) | B (inch) | C (mm) | Kg  |   |   |
|-------|----------|--------|----------|--------|-----|---|---|
| 76758 | 8        | 16     | 1        | 20     | 0,4 |   |   |
| 76759 | 10       | 20     | 1.1/2    | 23     | 0,9 | 6 |   |
| 76760 | 12       | 22     | 2        | 26     | 1,4 |   | • |
| 76761 | 14       | 25     | 2        | 29     | 1,6 | 5 |   |
| 76762 | 18       | 27     | 2.1/2    | 33     | 2,4 | 3 | - |

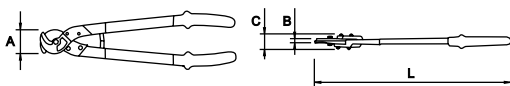


**TENAZAS CORTACABLES / CABLE CUTTERS / COUPE-CÂBLES / KABELSCHNEIDER / CESCOIE PER CAVI / TESOURAS CORTA CABOS / КАБЕЛЕРЕЗЫ**

| COD.  | L (mm) | L (inch) | O.D. mm | Cu/Al (mm <sup>2</sup> ) | g   |   |   |
|-------|--------|----------|---------|--------------------------|-----|---|---|
| 76147 | 150    | 6        | 6,7     | 35                       | 180 | 6 | • |




| COD.  | L (mm) | L (inch) | O.D. mm | Cu/Al (mm <sup>2</sup> ) | g   |   |   |
|-------|--------|----------|---------|--------------------------|-----|---|---|
| 73008 | 250    | 10       | 9       | 63                       | 500 | 6 | • |

| COD.  | L (mm) | L (inch) | O.D. mm | A (mm) | Cu/Al (mm <sup>2</sup> ) | B (mm) | C (mm) | g    |   |
|-------|--------|----------|---------|--------|--------------------------|--------|--------|------|---|
| 73009 | 600    | 24       | 14      | 70     | 154                      | 16     | 55     | 1850 | 1 |



**CORTAVARILLAS / BOLT CUTTERS / COUPE-BOULONS / BOLZENSCHNEIDER / TAGLIABULLONI / CORTA VARÃO / АРМАТУРНЫЕ НОЖНИЦЫ**

| COD.  | L (inch) | CAP                                             | Kg  |   |
|-------|----------|-------------------------------------------------|-----|---|
| 73020 | 18       | 50 kg/mm <sup>2</sup><br>140 kg/mm <sup>2</sup> | 1,7 |   |
| 73021 | 24       |                                                 | 2,7 | 1 |




**CORTATUBOS PARA TUBO DE PLÁSTICO / PLASTIC PIPE CUTTER / COUPE-TUBE PLASTIQUE / KUNSTSTOFFROHRSCHERE / CESCOIA PER TUBI DI PLASTICA / TESOURA PARA TUBO DE PLÁSTICO / ТРУБОРЕЗ ДЛЯ ПЛАСТИКА**
**PIRAINA®**

| COD.         |  |  |  |  |  |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>76145</b> | 64                                                                                | 600                                                                               | 5                                                                                 | •                                                                                 | 64752                                                                              |

 1000V | IEC 60900

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Válido para / Valid for / Valable pour

KEVLAR, PVC, PE, PP, PB, VPE, PVDF, MLP, HTA, PPR, PEX, MULTILAYER

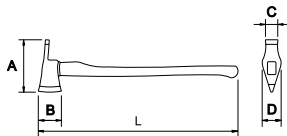

**CORTABRIDAS / PLASTIC TIE CUTTER / PINCE COUPE COLLIERS PLASTIQUES / KABELBINDER SCHNEIDER / PINZA TAGLIA FASCETTE IN NYLON / CORTA-ABRÇAÇEIRA / РЕЗАК ДЛЯ ПЛАСТИКОВЫХ ХОМУТОВ**



| COD.         | L (mm) |  |  |  |
|--------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>73042</b> | 150    | 100                                                                               | 6                                                                                 | •                                                                                  |

 1000V | IEC 60900 | RCD N° 2029504

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Corta bridas sin dañar los cables / It cuts the ties without damaging the cables / Il coupe les colliers plastiques sans abîmer les cables






**CORTE / CUTTING / OUTILS COUPANTS / SCHNEIDWERKZEUG / ARCHETTI / CORTE / РЕЗКА**
**HACHA AZADA / HOE AXE / HACHE HOUE / WIEDEHOPFHACKE / ASCIA A ZAPPA / MACHADO ENXADA / ТОПОР МОТЫГА**


| COD.         | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |  |  |
|--------------|--------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>67243</b> | 910    | 310    | 110    | 80     | 29     | 2,8                                                                                 | 6                                                                                     |





**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre de verre


**ARCO DE SIERRA / HACK SAW / MONTURE DE SCIE À METAUX / METALLSÄGEN GEBOGEN / ARCHETTI / ARCO DE SERRA / HOЖОВКА**

| COD.         |  |  |  |  |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>73029</b> | 6                                                                                   | 150                                                                                 | 500                                                                                 | 1                                                                                    |

 1000V | IEC 60900

| COD.         |  |  |  |  |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>73030</b> | 12                                                                                  | 300                                                                                 | 800                                                                                 | 1                                                                                    |

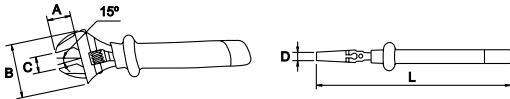
 1000V | IEC 60900





**LLAVES AJUSTABLES / ADJUSTABLE WRENCHES / CLÉS À MOLETTE / ROLLGABELSCHLÜSSEL / CHAVI REGOLABILI A RULLINO / CHAVES AJUSTAVELS / РАЗВОДНЫЕ КЛЮЧИ**

**TITACROM®**

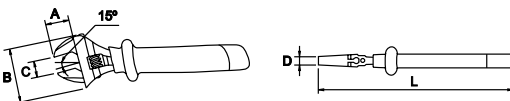


| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g   |   |   |
|-------|----------|--------|--------|--------|--------|--------|-----|---|---|
| 76550 | 6        | 150    | 20     | 47     | 19     | 6,5    | 200 |   |   |
| 76551 | 8        | 200    | 25     | 55     | 24     | 7      | 360 | 4 | • |
| 76552 | 10       | 250    | 30     | 70     | 29     | 8,5    | 600 |   |   |
| 76553 | 12       | 300    | 35     | 85     | 33,5   | 10     | 950 |   |   |



**TITACROM®** ⚡ 1000V | IEC 60900 | Modelo registrado / Registered model / Modèle enregistré

**FOSFATADA / PHOSPHATED / PHOSPHATÉE BRUNIE / PHOSPHATIERT / FINITURA BRUNITA / BRUNIDA / ЧЕРНЕННЫЙ**

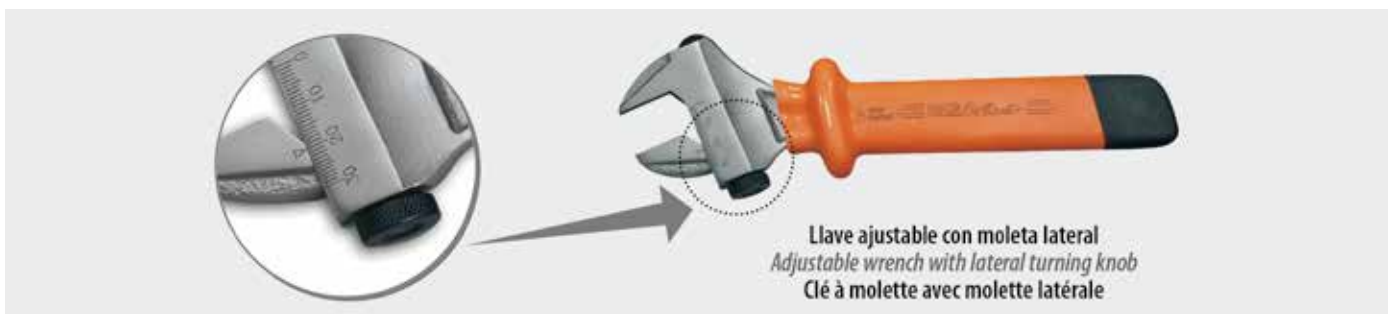


| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g    |   |   |
|-------|----------|--------|--------|--------|--------|--------|------|---|---|
| 76554 | 6        | 150    | 20     | 47     | 19     | 6,5    | 195  |   |   |
| 76555 | 8        | 200    | 25     | 55     | 24     | 7      | 370  | 4 | • |
| 76556 | 10       | 250    | 30     | 70     | 29     | 8,5    | 650  |   |   |
| 76557 | 12       | 300    | 35     | 85     | 33     | 10     | 1050 |   |   |

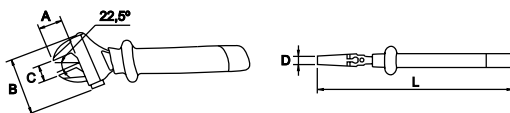


⚡ 1000V | IEC 60900 | Modelo registrado / Registered model / Modèle enregistré

**MOLETA LATERAL / LATERAL NUT / MOLETTE LATÉRALE / MIT SCHNECKENROLLE / RULLINO LATERALE / MOLETA LATERAL / РИГУЛИРОВОЧНАЯ ШАЙБА**



**TITACROM®**

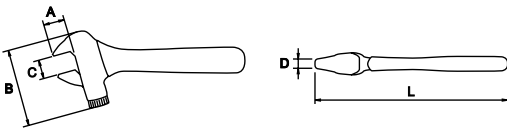





| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | g    |   |   |
|-------|----------|--------|--------|--------|--------|--------|------|---|---|
| 76578 | 6        | 150    | 20     | 55     | 19     | 8,5    | 200  |   |   |
| 76580 | 10       | 250    | 30     | 80     | 29     | 11     | 600  | 4 | • |
| 76581 | 12       | 300    | 36     | 95     | 33     | 12     | 1000 |   |   |



**TITACROM®** ⚡ 1000V | IEC 60900

### 1000V



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |  |  |  |
|-------|----------|--------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 79470 | 8        | 200    | 25     | 95     | 29     | 11     | 370                                                                               |                                                                                   |                                                                                     |
| 79471 | 10       | 250    | 32     | 105    | 33     |        | 620                                                                               | 1                                                                                 | •                                                                                   |
| 79472 | 12       | 300    | 40     | 120    | 38     | 14     | 1000                                                                              |                                                                                   |                                                                                     |














 1000V | IEC 60900

### LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ

#### FIJA DE UNA BOCA / SINGLE ENDED OPEN JAW SPANNER / À FOURCHE / EINMAULSCHLÜSSEL / FISSE SEMPLICE / FIXA DE UMA BOCA / ОДНОРОЖКОВЫЙ КЛЮЧ

#### MM







| COD.  |    | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 73086 | 5,5                                                                                 | 90     | 15                                                                                |                                                                                   |                                                                                   |
| 73060 | 6                                                                                   |        |                                                                                   |                                                                                   |                                                                                   |
| 73061 | -                                                                                   | 100    | 20                                                                                |                                                                                   |                                                                                   |
| 73062 | 8                                                                                   | 105    |                                                                                   |                                                                                   |                                                                                   |
| 73063 | 9                                                                                   | 120    | 25                                                                                |                                                                                   |                                                                                   |
| 73064 |  | 125    | 30                                                                                |                                                                                   |                                                                                   |
| 73065 | -                                                                                   | 133    | 35                                                                                |                                                                                   |                                                                                   |
| 73066 | -                                                                                   | 12     |                                                                                   |                                                                                   |                                                                                   |
| 73067 | -                                                                                   | 142    | 45                                                                                | 10                                                                                |                                                                                   |
| 73068 |  | 14     | 55                                                                                |                                                                                   |                                                                                   |
| 73069 | -                                                                                   | 15     |                                                                                   |                                                                                   |                                                                                   |
| 73070 | -                                                                                   | 164    | 60                                                                                |                                                                                   |                                                                                   |
| 73071 |  | 17     | 70                                                                                |                                                                                   |                                                                                   |
| 73072 | -                                                                                   | 18     | 80                                                                                |                                                                                   |                                                                                   |
| 73073 |  | 19     | 95                                                                                |                                                                                   |                                                                                   |
| 73074 | -                                                                                   | 20     | 100                                                                               |                                                                                   |                                                                                   |
| 73075 | -                                                                                   | 21     | 185                                                                               |                                                                                   |                                                                                   |
| 73076 |  | 22     | 150                                                                               |                                                                                   |                                                                                   |
| 73078 | -                                                                                   | 23     | 160                                                                               |                                                                                   |                                                                                   |
| 73077 |  | 24     | 185                                                                               |                                                                                   |                                                                                   |
| 73079 | -                                                                                   | 27     | 230                                                                               | 5                                                                                 |                                                                                   |
| 73080 | -                                                                                   | 28     | 270                                                                               |                                                                                   |                                                                                   |
| 73081 | -                                                                                   | 29     | 300                                                                               |                                                                                   |                                                                                   |
| 73082 | -                                                                                   | 30     | 350                                                                               |                                                                                   |                                                                                   |
| 73083 |  | 32     | 370                                                                               |                                                                                   |                                                                                   |

 1000V | IEC 60900

#### INCH



| COD.  |  | L (mm) |  |  |  |
|-------|------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 73043 | 1/4                                                                                | 90     |                                                                                     |                                                                                     |                                                                                     |
| 73044 | 9/32                                                                               |        | 30                                                                                  |                                                                                     |                                                                                     |
| 73045 | 5/16                                                                               | 110    |                                                                                     |                                                                                     |                                                                                     |
| 73046 | 3/8                                                                                | 127    | 40                                                                                  |                                                                                     |                                                                                     |
| 73047 | 7/16                                                                               | 135    | 45                                                                                  | 10                                                                                  |                                                                                     |
| 73048 | 1/2                                                                                | 147    | 55                                                                                  |                                                                                     |                                                                                     |
| 73049 | 9/16                                                                               | 147    | 75                                                                                  |                                                                                     |                                                                                     |
| 73050 | 5/8                                                                                | 166    | 100                                                                                 |                                                                                     |                                                                                     |
| 73051 | 11/16                                                                              | 166    | 120                                                                                 |                                                                                     | •                                                                                   |
| 73052 | 3/4                                                                                | 176    | 130                                                                                 |                                                                                     |                                                                                     |
| 73053 | 13/16                                                                              | 176    | 180                                                                                 |                                                                                     |                                                                                     |
| 73054 | 7/8                                                                                | 200    | 190                                                                                 |                                                                                     |                                                                                     |
| 73055 | 15/16                                                                              | 226    | 220                                                                                 | 5                                                                                   |                                                                                     |
| 79483 | 1                                                                                  | 250    | 350                                                                                 |                                                                                     |                                                                                     |
| 79484 | 1.1/8                                                                              | 266    | 450                                                                                 |                                                                                     |                                                                                     |
| 79485 | 1.1/4                                                                              | 281    |                                                                                     |                                                                                     |                                                                                     |

 1000V | IEC 60900

**KIT DEMO 6 LLAVES / 6 SPANNER DEMO KIT / KIT DÉMO. 6 CLÉS / DEMOKIT 6 SCHLÜSSEL / KIT 6 CHIAVI DI DIMOSTRAZIONE / KIT DEMO 6 CHAVES / ДЕМО НАБОР ИЗ 6 КЛЮЧЕЙ**

|              |                                  |
|--------------|----------------------------------|
| COD.         |                                  |
| <b>69342</b> | 300                              |
| COD. PCS.    | mm                               |
| 61727        | Aerospacial / <i>Aerospatial</i> |
| 38092        | INOX                             |
| 73062        | 1000V                            |
| 70172        | Cu-Be                            |
| 70684        | Al-Bron                          |
| 71669        | Titanio / <i>Titanium</i>        |



**LLAVE DE ESTRELLA ACODADA UNA BOCA / OFFSET RING WRENCH / CLÉ POLYGONALE CONTRE-COUDÉE / GEKRÖPFTE RINGSCHLÜSSEL / CHIAVE POLIGONALE AD UNA BOCCA / CHAVE DE LUNETAS INCLINADA / КЛЮЧ ИЗОГНУТАЯ ЗВЕЗДОЧКА**

**MM**



| COD.         |   | L (mm) |     |      |    |
|--------------|---|--------|-----|------|----|
| <b>73090</b> | - | 6      | 140 | 50   |    |
| <b>73091</b> | - | 7      | 145 | 50   |    |
| <b>73092</b> | - | 8      | 150 | 55   |    |
| <b>73093</b> |   | 9      | 155 | 75   |    |
| <b>73094</b> | - | 10     | 160 | 80   |    |
| <b>73095</b> | - | 11     | 170 | 90   |    |
| <b>73096</b> | - | 12     | 180 | 100  |    |
| <b>73097</b> | - | 13     | 180 | 105  |    |
| <b>73098</b> |   | 14     | 190 | 130  |    |
| <b>73099</b> | - | 15     | 200 | 140  |    |
| <b>73100</b> | - | 16     | 200 | 150  | 10 |
| <b>73101</b> |   | 17     | 210 | 160  |    |
| <b>73102</b> | - | 18     | 210 | 210  |    |
| <b>73103</b> |   | 19     | 220 | 230  |    |
| <b>73105</b> | - | 21     | 240 | 280  |    |
| <b>73106</b> |   | 22     | 250 | 300  |    |
| <b>73107</b> | - | 23     | 260 | 320  |    |
| <b>73108</b> |   | 24     | 260 | 350  |    |
| <b>73109</b> | - | 26     | 300 | 550  |    |
| <b>73110</b> |   | 27     | 310 | 600  |    |
| <b>73111</b> | - | 28     | 310 | 600  |    |
| <b>73112</b> | - | 29     | 310 | 600  |    |
| <b>73113</b> | - | 30     | 310 | 600  |    |
| <b>73114</b> |   | 32     | 330 | 650  | 5  |
| <b>73115</b> | - | 36     | 350 | 1100 |    |
| <b>73116</b> | - | 38     | 350 | 1100 |    |
| <b>73117</b> | - | 41     | 380 | 1150 |    |
| <b>73118</b> | - | 42     | 400 | 1200 |    |
| <b>73119</b> | - | 46     | 440 | 1200 |    |
| <b>73104</b> | - | 50     | 460 | 1300 |    |

1000V | IEC 60900

**INCH**

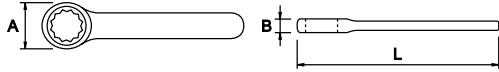


| COD.         |        | L (mm) |     |  |    |
|--------------|--------|--------|-----|--|----|
| <b>73347</b> | 1/4    | 140    | 50  |  |    |
| <b>73348</b> | 5/16   | 150    | 75  |  |    |
| <b>73349</b> | 3/8    | 160    | 85  |  |    |
| <b>73350</b> | 7/16   | 170    | 95  |  |    |
| <b>73351</b> | 1/2    | 180    | 125 |  |    |
| <b>73352</b> | 9/16   | 190    | 165 |  | 10 |
| <b>73353</b> | 5/8    | 200    | 190 |  |    |
| <b>73354</b> | 11/16  | 220    | 210 |  |    |
| <b>73355</b> | 3/4    | 250    | 250 |  |    |
| <b>73356</b> | 13/16  | 240    | 320 |  |    |
| <b>73357</b> | 7/8    | 250    | 340 |  |    |
| <b>73358</b> | 15/16  | 260    | 390 |  |    |
| <b>73359</b> | 1      | 270    | 450 |  |    |
| <b>73360</b> | 1.1/16 | 280    | 500 |  | 5  |
| <b>73361</b> | 1.1/8  | 290    | 550 |  |    |
| <b>73363</b> | 1.1/4  | 305    | 600 |  |    |

1000V | IEC 60900

**LLAVE DE ESTRELLA DE CARRACA PLANA / RING RATCHET / POLYGONALE À CLIQUET / KNARRE RINGSCHÜSSEL / CHIAVE POLIGONALE PIATTA CON CRICCO / CHAVE DE LUNETA COM ROQUETE PLANA / ЗВЕЗДОЧКА С ТРЕЩЕТКОЙ**

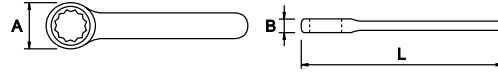
MM



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | g   |   |   |
|-------|-------|--------|--------|--------|-----|---|---|
| 73145 | 10    | 136    | 25     | 13     | 60  |   |   |
| 79423 | 11    | 140    | 26     | 14     | 65  |   |   |
| 79424 | 12    | 147    | 29     | 15     | 75  |   |   |
| 73147 | 13    | 152    | 31     | 15     | 95  |   |   |
| 79425 | 14    | 160    | 32     | 16     | 120 | 6 | • |
| 79426 | 15    | 165    | 34     | 17     | 135 |   |   |
| 79427 | 16    | 170    | 36     | 17     | 150 |   |   |
| 73150 | 17    | 190    | 38     | 18     | 175 |   |   |
| 79428 | 18    | 190    | 38     | 18     | 175 |   |   |
| 73152 | 19    | 210    | 39     | 18     | 190 |   |   |

1000V | IEC 60900

INCH



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | g   |   |   |
|-------|---------|--------|--------|--------|-----|---|---|
| 76020 | 1/2     | 152    | 29     | 14     | 100 |   |   |
| 79429 | 9/16    | 165    | 32     | 16     | 103 |   |   |
| 76032 | 5/8     | 170    | 34     | 17     | 140 |   |   |
| 76023 | 11/16   | 180    | 36     | 18     | 170 | 6 | • |
| 79430 | 3/4     | 205    | 39     | 20     | 209 |   |   |
| 79431 | 7/8     | 235    | 47     | 20     | 289 |   |   |

1000V | IEC 60900

**LLAVE DE ESTRELLA INCLINADA UNA BOCA / ANGLE RING WRENCH / CLÉ POLYGONALE DROITE / GEBOGEN RINGSCHLÜSSEL / CHIAVE A STELLA INCLINATA / CHAVE LUA / КЛЮЧ ЗВЕЗДОЧКА ИЗОГНУТАЯ**

MM



| COD.  | AF mm | L (mm) | g   |    |   |
|-------|-------|--------|-----|----|---|
| 73120 | 8     | 90     | 25  |    |   |
| 73121 | 9     | 100    | 30  |    |   |
| 73122 | 10    | 110    | 40  |    |   |
| 73123 | 11    | 115    | 50  |    |   |
| 73124 | 12    | 125    | 60  |    |   |
| 73125 | 13    | 135    | 80  |    |   |
| 73126 | 14    | 140    | 95  |    |   |
| 73127 | 15    | 145    | 110 |    |   |
| 73128 | 16    | 150    | 125 | 10 | • |
| 73129 | 17    | 160    | 135 |    |   |
| 73130 | 18    | 170    | 145 |    |   |
| 73131 | 19    | 175    | 175 |    |   |
| 73133 | 21    | 185    | 210 |    |   |
| 73134 | 22    | 195    | 240 |    |   |
| 73135 | 23    | 210    | 250 |    |   |
| 73136 | 24    | 230    | 275 |    |   |

1000V | IEC 60900

INCH



| COD.  | AF inch | L (mm) | g   |    |   |
|-------|---------|--------|-----|----|---|
| 73160 | 5/16    | 90     | 25  |    |   |
| 73189 | 3/8     | 110    | 40  |    |   |
| 73190 | 7/16    | 115    | 50  |    |   |
| 73191 | 1/2     | 135    | 80  |    |   |
| 73192 | 9/16    | 140    | 95  |    |   |
| 73198 | 5/8     | 150    | 125 | 10 | • |
| 73199 | 11/16   | 170    | 145 |    |   |
| 73200 | 3/4     | 175    | 175 |    |   |
| 73201 | 7/8     | 195    | 240 |    |   |
| 73202 | 15/16   | 230    | 275 |    |   |
| 79486 | 1       | 245    | 290 |    |   |
| 79487 | 1.1/8   | 300    | 460 | 5  | • |
| 79488 | 1.1/4   | 320    | 600 |    |   |

1000V | IEC 60900

**LLAVES DE PIPA ABIERTAS / ANGLED OPEN SOCKETS / CLÉS À PIPE DEBOUCHEES / PFEIFFENKOPFSCHLÜSSEL / CHIAVI A PIPA APERTE / CHAVE DE CACHIMBO ABERTAS / ГОЛОВКА С РУКОЯТКОЙ ПОД 90 ГРАДУСОВ**

MM

| COD.  | AP mm | L (mm) | g    |   |  |
|-------|-------|--------|------|---|--|
| 73203 | 8     |        | 45   |   |  |
| 73204 | 9     | 110    | 60   |   |  |
| 73205 | 10    | 125    | 85   |   |  |
| 73206 | 11    | 135    | 100  |   |  |
| 73207 | 12    | 145    | 130  |   |  |
| 73208 | 13    | 155    | 160  |   |  |
| 73209 | 14    | 165    | 185  |   |  |
| 73210 | 15    | 170    | 220  | 5 |  |
| 73211 | 16    | 175    | 230  |   |  |
| 73212 | 17    | 180    | 280  |   |  |
| 73213 | 18    | 190    | 330  |   |  |
| 73214 | 19    | 195    | 430  |   |  |
| 73215 | 20    | 210    | 460  |   |  |
| 73216 | 21    | 220    | 500  |   |  |
| 73217 | 22    | 240    | 650  |   |  |
| 73218 | 23    | 260    | 700  |   |  |
| 73219 | 24    | 270    | 750  |   |  |
| 73220 | 25    |        | 800  |   |  |
| 73221 | 26    | 290    | 1000 |   |  |
| 73222 | 27    | 300    | 1100 | 1 |  |
| 73223 | 28    | 320    | 1150 |   |  |
| 73224 | 29    | 330    | 1300 |   |  |
| 73225 | 30    |        |      |   |  |
| 73226 | 32    | 350    | 1150 |   |  |


 1000V | IEC 60900

**LLAVE DE TUBO MANGO EN T / T HANDLE WRENCH / CLÉ EN T / T-GRIFF SCHLÜSSEL / CHIAVE A TUBO CON IMPUGNATURA A T / CHAVES T TUBOLARES / ГОЛОВКА С РУКОЯТКОЙ T**

MM

| COD.  | AP mm | L (mm) | g   |    |  |
|-------|-------|--------|-----|----|--|
| 73170 | 6     | 125    | 70  |    |  |
| 73171 | 7     |        | 85  |    |  |
| 73172 | 8     |        | 95  |    |  |
| 73173 | 9     |        | 120 |    |  |
| 73174 | 10    |        | 140 |    |  |
| 73175 | 11    | 135    | 175 |    |  |
| 73176 | 12    |        | 185 |    |  |
| 73177 | 13    |        | 220 |    |  |
| 73178 | 14    |        | 260 |    |  |
| 73179 | 15    |        | 275 | 10 |  |
| 73180 | 16    |        | 290 |    |  |
| 73181 | 17    |        | 300 |    |  |
| 73182 | 18    |        | 330 |    |  |
| 73183 | 19    | 150    | 360 |    |  |
| 73184 | 20    |        | 370 |    |  |
| 73185 | 21    |        | 420 |    |  |
| 73186 | 22    | 135    | 430 |    |  |
| 73187 | 23    |        | 440 |    |  |
| 73188 | 24    | 150    | 450 |    |  |


 1000V | IEC 60900

■ EN CRUZ / CROSS RIM WRENCH / CLÉ EN CROIX / KREUZSCHLÜSSEL / CHIAVE A CROCE / CHAVE DE CRUZETA / КРЕСТООБРАЗНЫЙ КЛЮЧ

| COD.         | AF mm      | g   |   |   |
|--------------|------------|-----|---|---|
| <b>73167</b> | 8-10-12-14 | 330 | 6 | • |

⚠ 1000V | IEC 60900



■ LLAVES HEXAGONALES / HEXAGONAL KEYS / CLÉS MÂLES / WINKELSCHRAUBENDREHER / CHIAVI ESAGONALI / CHAVES HEXAGONAIS / ШЕСТИГРАННЫЕ КЛЮЧИ

■ MM



| COD.         | AF mm | g   |    |   |
|--------------|-------|-----|----|---|
| <b>73155</b> | 3     | 16  | 10 | • |
| <b>73156</b> | 4     | 30  |    |   |
| <b>73157</b> | 5     | 42  |    |   |
| <b>73158</b> | 6     | 55  |    |   |
| <b>73159</b> | 8     | 100 |    |   |

⚠ 1000V | IEC 60900

■ INCH



| COD.         | AF inch | g   |    |   |
|--------------|---------|-----|----|---|
| <b>73025</b> | 1/8     | 20  | 10 | • |
| <b>73026</b> | 3/16    | 30  |    |   |
| <b>73027</b> | 7/32    | 50  |    |   |
| <b>73028</b> | 15/64   | 55  |    |   |
| <b>73037</b> | 5/16    | 100 |    |   |

⚠ 1000V | IEC 60900

■ SERIE LARGA / LONG SOCKET / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

■ MM



| COD.         | AF mm | L (mm) | g   |    |   |
|--------------|-------|--------|-----|----|---|
| <b>79388</b> | 1,5   | 65     | 3   | 10 | • |
| <b>79389</b> | 2     | 80     | 5   |    |   |
| <b>79394</b> | 2,5   | 90     | 6   |    |   |
| <b>79370</b> | 3     | 100    | 15  |    |   |
| <b>79371</b> | 4     | 110    | 25  |    |   |
| <b>79372</b> | 5     | 125    | 35  |    |   |
| <b>79373</b> | 6     | 145    | 50  |    |   |
| <b>79374</b> | 8     | 165    | 90  |    |   |
| <b>79375</b> | 10    | 185    | 160 |    |   |
| <b>79376</b> | 12    | 205    | 300 |    |   |

⚠ 1000V | IEC 60900

■ INCH







| COD.         | AF inch | L (mm) | g   |    |   |
|--------------|---------|--------|-----|----|---|
| <b>79377</b> | 1/8     | 100    | 15  | 10 | • |
| <b>79378</b> | 9/64    | 105    | 18  |    |   |
| <b>79379</b> | 5/32    | 110    | 20  |    |   |
| <b>79380</b> | 3/16    |        | 30  |    |   |
| <b>79381</b> | 7/32    | 130    | 40  |    |   |
| <b>79382</b> | 1/4     | 140    | 60  |    |   |
| <b>79383</b> | 5/16    | 155    | 90  |    |   |
| <b>79384</b> | 3/8     | 175    | 150 |    |   |
| <b>79385</b> | 7/16    | 195    | 250 |    |   |
| <b>79386</b> | 1/2     | 215    |     |    |   |
| <b>79387</b> | 5/8     | 255    | 400 |    |   |

⚠ 1000V | IEC 60900




**LLAVES HEXAGONALES EN T / T HEXAGONAL KEYS / CLÉS MÂLES EN T / T-INBUSSCHLÜSSEL / CHIAVI ESAGONALI A T / CHAVES HEXAGONAIS EM T / Т-ОБРАЗНЫЕ КЛЮЧИ ДЛЯ ШЕСТИГРАННИКОВ**

MM

| COD.  |  | L (mm)   |  |  |  |
|-------|-----------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 79390 | 5                                                                                 | 120 x 90 | 185                                                                               | 10                                                                                | ●                                                                                   |
| 79391 | 6                                                                                 |          |                                                                                   |                                                                                   |                                                                                     |
| 79392 | 8                                                                                 |          | 245                                                                               |                                                                                   |                                                                                     |
| 79393 | 10                                                                                |          | 325                                                                               |                                                                                   |                                                                                     |


 1000V | IEC 60900

**APRIETE CONTROLADO / CONTROLLED TIGHTENING / SERRAGE CONTRÔLÉ / KONTROLLIERTES ANZIEHEN / CONTROLLO DI SERRAGGIO / APERTO CONTROLADO / КОНТРОЛИРУЕМАЯ ЗАТЯЖКА**
**LLAVE DINAMOMÉTRICA / TORQUE WRENCH / CLÉ DYNAMOMÉTRIQUE / DREHMOMENT-SCHRAUBENSCHLÜSSEL / CHIAVE DINAMOMETRICA / CHAVE DINAMOMÉTRICA / ДИНАМОМЕТРИЧЕСКИЕ КЛЮЧИ**

| COD.  |  | N.m    | L (mm) |  |  |
|-------|-----------------------------------------------------------------------------------|--------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 79990 | 1/4                                                                               | 5-25   | 290    | 0,6                                                                               | 1                                                                                   |
| 79995 | 3/8                                                                               | 10-50  |        |                                                                                   |                                                                                     |
| 79993 |                                                                                   | 20-100 |        | 0,7                                                                               |                                                                                     |
| 79991 |                                                                                   | 40-200 | 550    | 1,7                                                                               |                                                                                     |
| 79992 | 1/2                                                                               |        |        |                                                                                   |                                                                                     |
| 79994 |                                                                                   |        |        |                                                                                   |                                                                                     |


 1000V | IEC 60900 | 12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Precisión / Accuracy / Précision 4%

| COD.  |  | N.m    | Lb.ft     | L (mm) |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-----------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 79434 | 3/8                                                                                 | 20-100 | 14,7-73,6 | 405    | 1,3                                                                                 | 1                                                                                     |

 1000V | IEC 60900 | 12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Precisión / Accuracy / Précision 4%




| COD.  |  | N.m    | Lb.ft  | L (mm) |  |  |
|-------|-------------------------------------------------------------------------------------|--------|--------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 79435 | 1/2                                                                                 | 20-200 | 15-150 | 500    | 1,4                                                                                 | 1                                                                                     |

 1000V | IEC 60900 | 12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Precisión / Accuracy / Précision 4%

**DESTORNILLADOR DINAMOMETRICO / TORQUE SCREWDRIVER / TOURNEVIS DYNAMOMÉTRIQUE / DREHMOMENT SCHRAUBENDREHER / CACCIAVITE DINAMOMETRICO / CHAVE DE FENDAS DINAMOMÉTRICA / ОТВЕРТКА СУСТАВКОЙ МОМЕНТА ЗАТЯГИВАНИЯ**

| COD.  |  | N.m     | Lb.in | L (mm) |  |  |
|-------|-------------------------------------------------------------------------------------|---------|-------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 79891 |                                                                                     | -       | 10-50 | 210    | 445                                                                                 | 1                                                                                     |
| 79889 | 1/4                                                                                 | 1-6     |       |        |                                                                                     |                                                                                       |
| 79890 |                                                                                     | 0.5-4.5 |       |        |                                                                                     |                                                                                       |

 1000V | IEC 60900 | 12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Certificado de calibración / Calibration certificate / Certificat de calibrage ●

Precisión / Accuracy / Précision +/-6%


**12M** GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

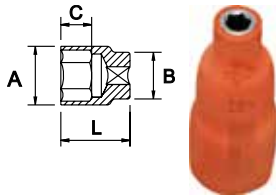
■ LLAVES DE VASO / SOCKET WRENCHES / DOUILLES / STECKSCHLÜSSEL / BUSSOLE DOPPEN / CHAVES DE CAIXA / ГОЛОВКИ

■ 1/4"

■ STANDARD

■ MM

■ 6 PT.

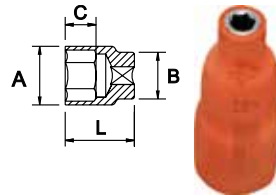


| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g  |  |
|-------|-------|--------|--------|--------|--------|----|----|--|
| 73230 | 4     |        | 11     |        |        |    |    |  |
| 73228 | 4,5   |        | 11     |        |        |    |    |  |
| 73231 | 5     |        | 12     |        |        |    |    |  |
| 73229 | 5,5   |        | 12     |        |        |    |    |  |
| 73232 | 6     |        | 13     |        | 11     | 15 |    |  |
| 73233 | 7     |        | 14     |        |        |    |    |  |
| 73234 | 8     | 42     | 16     | 18     |        | 6  | 10 |  |
| 73235 | 9     |        | 17     |        |        |    |    |  |
| 73236 | 10    |        | 18     |        |        |    | 25 |  |
| 73237 | 11    |        | 19     |        |        |    |    |  |
| 73238 | 12    |        | 21     |        |        |    |    |  |
| 73239 | 13    |        | 22     |        | 15     | 30 |    |  |
| 73240 | 14    |        | 23     |        |        |    | 35 |  |

⊕ 1000V | IEC 60900

■ INCH

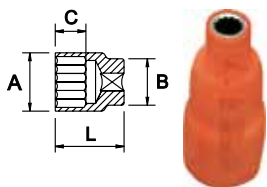
■ 6 PT.



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g  |    |
|-------|---------|--------|--------|--------|--------|----|----|----|
| 73366 | 5/32    |        | 11     |        |        |    |    |    |
| 73367 | 3/16    |        | 11     |        |        |    | 15 |    |
| 73368 | 7/32    |        | 12     |        |        |    |    |    |
| 73369 | 1/4     |        | 13     |        |        |    |    |    |
| 73370 | 9/32    |        | 14     |        | 11     | 17 |    |    |
| 73371 | 5/16    | 42     | 16     | 18     |        | 6  | 19 | 10 |
| 73372 | 11/32   |        | 17     |        |        |    | 23 |    |
| 73373 | 3/8     |        | 18     |        |        |    | 27 |    |
| 73374 | 7/16    |        | 20     |        |        |    | 29 |    |
| 73377 | 15/32   |        | 21     |        |        |    | 30 |    |
| 73375 | 1/2     |        | 22     |        | 15     |    |    |    |
| 73376 | 9/16    |        | 23     |        |        |    | 35 |    |

⊕ 1000V | IEC 60900

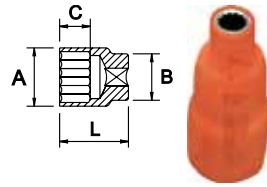
■ 12 PT.



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g  |  |
|-------|-------|--------|--------|--------|--------|----|----|--|
| 73241 | 4     |        | 11     |        |        |    |    |  |
| 73242 | 4,5   |        | 11     |        |        |    |    |  |
| 74885 | 5     |        | 12     |        |        |    |    |  |
| 74886 | 5,5   |        | 12     |        |        |    |    |  |
| 74887 | 6     |        | 13     |        | 11     | 15 |    |  |
| 74888 | 7     |        | 14     |        |        |    |    |  |
| 74889 | 8     | 42     | 16     | 18     |        | 12 | 10 |  |
| 74890 | 9     |        | 17     |        |        |    |    |  |
| 74891 | 10    |        | 18     |        |        |    | 25 |  |
| 74892 | 11    |        | 19     |        |        |    |    |  |
| 74893 | 12    |        | 21     |        |        |    |    |  |
| 74894 | 13    |        | 22     |        | 15     | 30 |    |  |
| 74895 | 14    |        | 23     |        |        |    | 35 |  |

⊕ 1000V | IEC 60900

■ 12 PT.



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g  |    |
|-------|---------|--------|--------|--------|--------|----|----|----|
| 73365 | 5/32    |        | 11     |        |        |    |    |    |
| 74900 | 3/16    |        | 11     |        |        |    | 15 |    |
| 74901 | 7/32    |        | 12     |        |        |    |    |    |
| 74902 | 1/4     |        | 13     |        |        |    |    |    |
| 74903 | 9/32    |        | 14     |        | 11     | 17 |    |    |
| 74904 | 5/16    | 42     | 16     | 18     |        | 12 | 19 | 10 |
| 74905 | 11/32   |        | 17     |        |        |    | 23 |    |
| 74906 | 3/8     |        | 18     |        |        |    | 27 |    |
| 74907 | 7/16    |        | 20     |        |        |    | 29 |    |
| 74910 | 15/32   |        | 21     |        |        |    | 30 |    |
| 74908 | 1/2     |        | 22     |        | 15     |    |    |    |
| 74909 | 9/16    |        | 23     |        |        |    | 35 |    |

⊕ 1000V | IEC 60900

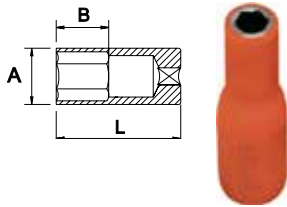


1/4"

SERIE LARGA / LONG SOCKET / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

MM

6 PT.

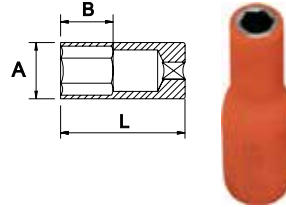


| COD.  | AF mm | L (mm) | A (mm) | B (mm) | Pt | g  |    |
|-------|-------|--------|--------|--------|----|----|----|
| 75050 | 4     |        | 7,5    |        |    |    |    |
| 75051 | 4,5   |        | 8,0    | 8,0    |    |    |    |
| 75052 | 5     |        | 9,0    |        |    |    |    |
| 75053 | 5,5   |        | 10     |        |    | 33 |    |
| 75054 | 6     |        | 11     |        |    |    |    |
| 75055 | 7     |        | 12     | 10     |    |    |    |
| 75056 | 8     | 48     | 12     | 10     | 6  | 35 | 10 |
| 75057 | 9     |        | 14     |        |    | 42 |    |
| 75058 | 10    |        | 15     |        |    | 46 |    |
| 75059 | 11    |        | 17     | 12     |    | 50 |    |
| 75060 | 12    |        | 17     | 12     |    | 55 |    |
| 75061 | 13    |        | 18     |        |    | 65 |    |
| 75062 | 14    |        | 20     |        |    |    |    |

1000V | IEC 60900

INCH

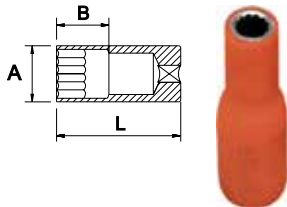
6 PT.



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | Pt | g  |    |
|-------|---------|--------|--------|--------|----|----|----|
| 75085 | 3/16    |        | 9,0    | 8,0    |    |    |    |
| 75086 | 7/32    |        | 10     |        |    | 33 |    |
| 75087 | 1/4     |        | 11     |        |    |    |    |
| 75088 | 9/32    |        | 13     | 10     |    | 35 |    |
| 75089 | 5/16    |        | 13     | 10     |    | 42 |    |
| 75090 | 11/32   | 48     | 14     |        | 6  | 47 | 10 |
| 75091 | 3/8     |        | 14     |        |    | 50 |    |
| 75092 | 7/16    |        | 17     | 12     |    | 55 |    |
| 75093 | 1/2     |        | 19     |        |    | 65 |    |
| 75094 | 9/16    |        | 21     |        |    |    |    |

1000V | IEC 60900

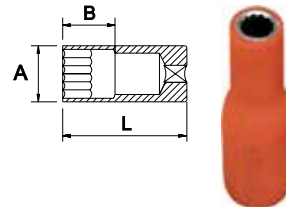
12 PT.



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | Pt | g  |    |
|-------|-------|--------|--------|--------|----|----|----|
| 75070 | 5     |        | 9,0    | 80     |    |    |    |
| 75071 | 5,5   |        | 10     |        |    | 33 |    |
| 75072 | 6     |        | 11     |        |    |    |    |
| 75073 | 7     |        | 12     | 10     |    | 35 |    |
| 75074 | 8     |        | 12     | 10     |    | 35 |    |
| 75075 | 9     | 48     | 14     |        | 12 | 42 | 10 |
| 75076 | 10    |        | 15     |        |    | 46 |    |
| 75077 | 11    |        | 17     | 12     |    | 50 |    |
| 75078 | 12    |        | 17     | 12     |    | 55 |    |
| 75079 | 13    |        | 18     |        |    | 65 |    |
| 75080 | 14    |        | 20     |        |    |    |    |

1000V | IEC 60900

12 PT.







| COD.  | AF inch | L (mm) | A (mm) | B (mm) | Pt | g  |    |
|-------|---------|--------|--------|--------|----|----|----|
| 75100 | 5/32    |        | 7,0    |        |    |    |    |
| 75101 | 3/16    |        | 9,0    | 8,0    |    | 33 |    |
| 75102 | 7/32    |        | 10     |        |    |    |    |
| 75103 | 1/4     |        | 11     |        |    | 35 |    |
| 75104 | 9/32    |        | 13     | 10     |    | 42 |    |
| 75105 | 5/16    | 48     | 13     | 10     | 12 | 42 | 10 |
| 75106 | 11/32   |        | 14     |        |    | 46 |    |
| 75107 | 3/8     |        | 14     |        |    | 50 |    |
| 75108 | 7/16    |        | 17     | 12     |    | 55 |    |
| 75109 | 1/2     |        | 19     |        |    | 65 |    |
| 75110 | 9/16    |        | 21     |        |    |    |    |

1000V | IEC 60900





## 1/4"

**PUNTA ATORNILLADORA CON VASO / SOCKET BITS / EMBOUTS DE VISSAGE AVEC DOUILLE / STECKSCHLÜSSELEINSATZ / INSERTI A BUSSOLA / PONTAS APARAFUSADORAS COM CAIXA / ГОЛОВКИ-БИТЫ**
**HEXAGONAL / HEXAGONAL / HEXAGONALE / HEXAGONAL / ESAGONALE / HEXAGONAL / ШЕСТИГРАННАЯ**

| COD.  |  |  |  |  |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 73250 | 3                                                                                 | 16                                                                                | 10                                                                                | ●                                                                                  |
| 73251 | 4                                                                                 | 18                                                                                |                                                                                   |                                                                                    |
| 73252 | 5                                                                                 | 20                                                                                |                                                                                   |                                                                                    |
| 73253 | 6                                                                                 | 22                                                                                |                                                                                   |                                                                                    |
| 73254 | 7                                                                                 | 24                                                                                |                                                                                   |                                                                                    |






 1000V | IEC 60900

**HEXAGONAL SERIE LARGA / HEXAGONAL LONG / HEXAGONALE SÉRIE LONGUE / HEXAGONAL LANG / ESAGONALE SERIE LUNGA / HEXAGONAL SÉRIE LONGA / ШЕСТИГРАННАЯ ВЫСОКАЯ СЕРИЯ**

| COD.  |  |  |  |  |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 79938 | 3                                                                                 | 50                                                                                | 10                                                                                | ●                                                                                  |


 1000V | IEC 60900

## TORX®\*





| COD.  |  | L (mm) |  |  |  |
|-------|------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 79495 | T-20                                                                               | 55     | 20                                                                                 | 10                                                                                 | ●                                                                                    |
| 79496 | T-25                                                                               |        | 25                                                                                 |                                                                                    |                                                                                      |
| 79497 | T-30                                                                               |        | 25                                                                                 |                                                                                    |                                                                                      |


**LLAVE DE CARRACA REVERSIBLE / REVERSIBLE RATCHET HANDLE / CLÉ À CLIQUET RÉVERSIBLE / UMSCHALTKNARRE / CHIAVE A CRICCO REVERSIBILE / ROQUETE REVERSIVEL / РЕВЕРСИВНАЯ ТРЕЩЕТКА**

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 73687 | 1/4                                                                                 | 124    | 140                                                                                 | 6                                                                                   | ●                                                                                     |


 1000V | IEC 60900

**ALARGADERA / EXTENSION / RALLONGE / VERLÄNGERUNG / PROLUNGA / EXTENÇÃO / УДЛИНИТЕЛЬ**

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 73244 | 1/4                                                                                 | 50     | 28                                                                                  | 5                                                                                   | ●                                                                                     |
| 73245 |                                                                                     | 100    | 52                                                                                  |                                                                                     |                                                                                       |
| 75204 |                                                                                     | 150    | 80                                                                                  |                                                                                     |                                                                                       |


 1000V | IEC 60900

**EXTENSIÓN CON MANGO / EXTENSION WITH HANDLE / GRANDE RALLONGE EMMANCHÉE / 4-KT. VERLÄNGERUNG MIT GRIFF / PROLUNGA CON IMPUGNATURA / EXTENÇÃO COM CABO / УДЛИНИТЕЛЬ С РУКОЯТКОЙ**

| COD.  |  | L (mm) |  |  |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 73256 | 1/4                                                                                 | 270    | 150                                                                                 | 5                                                                                   | ●                                                                                     |


 1000V | IEC 60900

\*Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)

■ 1/4"

■ MANGO EN T / T HANDLE / POIGNÉE T / T-GRIFF / IMPUGNATURA A T / PUNHO DE T / Т-ОБРАЗНАЯ РУКОЯТКА

| COD.         | AF inch | L (mm) | g   |   |   |
|--------------|---------|--------|-----|---|---|
| <b>73243</b> | 1/4     | 170    | 140 | 6 | • |

⚡ 1000V | IEC 60900



■ ADAPTADOR / ADAPTER / ADAPTATEUR / VERBINDUNGSTEILE / ADATTATORE / REDUTOR / АДАПТОР

| COD.         | AF inch | AF inch | g  |   |   |
|--------------|---------|---------|----|---|---|
| <b>79922</b> | 1/4-3/8 |         | 30 | 5 | • |

⚡ 1000V | IEC 60900



1/4"

**JUEGOS LLAVES DE VASO / SOCKET WRENCHES SETS / SETS DOUILLES / WERKZEUGSÄTZE FÜR STECKSCHLÜSSEL / KIT BUSSOLE DOPPEN / JOGOS CHAVES DE CAIXA / НАБОР ГОЛОВКИ**

6 PCS.

STANDARD



| COD.         | PCS. | AF inch | AF mm      | Medidas en / Sizes in / Mesures en |       |     |
|--------------|------|---------|------------|------------------------------------|-------|-----|
| <b>79067</b> | 6    | 1/4     | 8-10-12-13 | mm                                 | 51079 | 850 |

| PCS. | Composición / Composition / Composition | Descripción / Description / Description |              |
|------|-----------------------------------------|-----------------------------------------|--------------|
| 1    | 73687                                   | Carraca / Ratchet                       | 1000V        |
| 4    | 73234, 73236, 73238, 73239              | Vasos / Sockets                         |              |
| 1    | 73252                                   | Boquilla hexagonal / Hexagonal sockets  | 5 mm - 1000V |

10 PCS.

STANDARD



| COD.         | PCS. | AF inch | AF inch                         | Medidas en / Sizes in / Mesures en |       |   |
|--------------|------|---------|---------------------------------|------------------------------------|-------|---|
| <b>79475</b> | 10   | 1/4     | 3/16-1/4-5/16-3/8-7/16-1/2-9/16 | inch                               | 51079 | 1 |

| PCS. | Composición / Composition / Composition         | Descripción / Description / Description |       |
|------|-------------------------------------------------|-----------------------------------------|-------|
| 1    | 73687                                           | Carraca / Ratchet                       |       |
| 2    | 73244, 73245                                    | Alargadera / Extension                  | 1000V |
| 7    | 73367, 73369, 73371, 73373, 73374, 73375, 73376 | Vasos / Sockets                         |       |

11 PCS.

STANDARD



| COD.         | PCS. | AF inch | AF mm                  | Medidas en / Sizes in / Mesures en |       |     |
|--------------|------|---------|------------------------|------------------------------------|-------|-----|
| <b>79068</b> | 11   | 1/4     | 6-7-8-9-10-11-12-13-14 | mm                                 | 51079 | 950 |

| PCS. | Composición / Composition / Composition                       | Descripción / Description / Description |              |
|------|---------------------------------------------------------------|-----------------------------------------|--------------|
| 1    | 73687                                                         | Carraca / Ratchet                       | 1000V        |
| 9    | 73232, 73233, 73234, 73235, 73236, 73237, 73238, 73239, 73240 | Vasos / Sockets                         |              |
| 1    | 73252                                                         | Boquilla hexagonal / Hexagonal sockets  | 5 mm - 1000V |

**SERIE LARGA / LONG SOCKET / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ**



| COD.         | PCS. | AF inch | AF inch                         | Medidas en / Sizes in / Mesures en |       |     |
|--------------|------|---------|---------------------------------|------------------------------------|-------|-----|
| <b>79476</b> | 10   | 1/4     | 3/16-1/4-5/16-3/8-7/16-1/2-9/16 | inch                               | 51079 | 1,2 |

| PCS. | Composición / Composition / Composition         | Descripción / Description / Description |       |
|------|-------------------------------------------------|-----------------------------------------|-------|
| 1    | 73687                                           | Carraca / Ratchet                       |       |
| 2    | 73244, 73245                                    | Alargadera / Extension                  | 1000V |
| 7    | 75085, 75087, 75089, 75091, 75092, 75093, 75094 | Vasos (S.L.) / (L.S.) Sockets           |       |

- 1/4"
- 16 PCS.
- STANDARD



| COD.         | PCS. | AF inch | AF mm                      | Medidas en / Sizes in / Mesures en |       |     |
|--------------|------|---------|----------------------------|------------------------------------|-------|-----|
| <b>79069</b> | 16   | 1/4     | 4-5-6-7-8-9-10-11-12-13-14 | mm                                 | 51053 | 1,5 |

| PCS. | Composición / Composition / Composition                                     | Descripción / Description / Description     |                  |
|------|-----------------------------------------------------------------------------|---------------------------------------------|------------------|
| 1    | 73687<br>73245                                                              | Carraca / Ratchet<br>Alargadera / Extension |                  |
| 11   | 73230, 73231, 73232, 73233, 73234, 73235, 73236, 73237, 73238, 73239, 73240 | Vasos / Sockets                             | 1000V            |
| 3    | 73251, 73252, 73253                                                         | Boquilla hexagonal / Hexagonal sockets      | 4-5-6 mm - 1000V |

- 19 PCS.
- STANDARD



| COD.         | PCS. | AF inch | AF mm                      | Medidas en / Sizes in / Mesures en |       |     |
|--------------|------|---------|----------------------------|------------------------------------|-------|-----|
| <b>73014</b> | 19   | 1/4     | 4-5-6-7-8-9-10-11-12-13-14 | mm                                 | 51053 | 2,0 |

| PCS. | Composición / Composition / Composition                                     | Descripción / Description / Description     |                      |
|------|-----------------------------------------------------------------------------|---------------------------------------------|----------------------|
| 1    | 73687<br>73245                                                              | Carraca / Ratchet<br>Alargadera / Extension |                      |
| 11   | 73230, 73231, 73232, 73233, 73234, 73235, 73236, 73237, 73238, 73239, 73240 | Vasos / Sockets                             | 1000V                |
| 5    | 73250, 73251, 73252, 73253, 73254                                           | Boquilla hexagonal / Hexagonal sockets      | 3-4-5-6-7 mm - 1000V |

- 21 PCS.
- SERIE LARGA / LONG SOCKET / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ



| COD.         | PCS. | AF inch | AF mm                                                                                    | Medidas en / Sizes in / Mesures en |       |     |
|--------------|------|---------|------------------------------------------------------------------------------------------|------------------------------------|-------|-----|
| <b>79070</b> | 21   | 1/4     | 4-5-6-7-8-9-10-11-12-13-14 (8-10-12-13-14 Serie larga) / (Long pattern) / (Série longue) | mm                                 | 51053 | 1,8 |

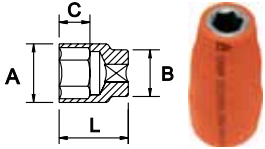
| PCS. | Composición / Composition / Composition                                     | Descripción / Description / Description     |                  |
|------|-----------------------------------------------------------------------------|---------------------------------------------|------------------|
| 1    | 73687<br>73245                                                              | Carraca / Ratchet<br>Alargadera / Extension |                  |
| 11   | 73230, 73231, 73232, 73233, 73234, 73235, 73236, 73237, 73238, 73239, 73240 | Vasos / Sockets                             | 1000V            |
| 5    | 75056, 75058, 75060, 75061, 75062                                           | Vasos (S.L.) / (L.S.) Sockets               |                  |
| 3    | 73251, 73252, 73253                                                         | Boquilla hexagonal / Hexagonal sockets      | 4-5-6 mm - 1000V |

■ 3/8"

■ STANDARD

■ MM

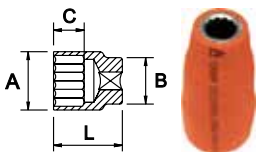
■ 6 PT.



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g  |    |
|-------|-------|--------|--------|--------|--------|----|----|----|
| 74914 | 6     |        | 11     |        |        |    | 20 |    |
| 74915 | 7     |        | 12     |        |        |    |    |    |
| 74916 | 8     |        | 13     |        |        |    | 25 |    |
| 74917 | 9     |        | 14     | 17     | 12     |    |    |    |
| 74918 | 10    |        | 15     |        |        |    | 31 |    |
| 74919 | 11    | 27     | 16     |        |        |    |    |    |
| 74920 | 12    |        | 17     |        |        |    |    |    |
| 74921 | 13    |        | 18     |        |        |    | 33 |    |
| 74922 | 14    |        | 20     | 18     |        |    |    |    |
| 74923 | 15    |        | 22     |        | 14     | 6  |    | 10 |
| 74924 | 16    |        | 23     | 20     |        |    | 35 |    |
| 74925 | 17    |        | 24     | 21     |        |    |    |    |
| 74926 | 18    | 29     | 26     | 22     | 16     |    | 45 |    |
| 74927 | 19    |        |        |        |        |    |    |    |
| 74928 | 20    |        | 28     | 24     |        |    | 50 |    |
| 74929 | 21    |        |        |        |        |    | 55 |    |
| 74930 | 22    | 31     | 30     | 26     | 18     |    | 65 |    |
| 74997 | 23    |        |        |        |        |    | 70 |    |
| 74998 | 24    |        | 32     | 28     |        |    | 75 |    |

⊕ 1000V | IEC 60900

■ 12 PT.

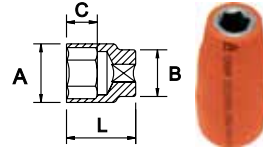


| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g  |    |
|-------|-------|--------|--------|--------|--------|----|----|----|
| 73261 | 8     |        | 13     |        |        |    | 25 |    |
| 73262 | 9     |        | 14     |        |        |    |    |    |
| 73263 | 10    |        | 15     | 17     | 12     |    | 31 |    |
| 73264 | 11    |        | 16     |        |        |    |    |    |
| 73265 | 12    | 27     | 17     |        |        |    |    |    |
| 73266 | 13    |        | 18     |        |        |    | 33 |    |
| 73267 | 14    |        | 20     | 18     |        |    |    |    |
| 73268 | 15    |        | 22     |        | 14     | 12 |    | 10 |
| 73269 | 16    |        | 23     | 20     |        |    | 35 |    |
| 73270 | 17    |        | 24     | 21     |        |    |    |    |
| 73271 | 18    | 29     |        |        | 16     |    |    |    |
| 73272 | 19    |        | 26     | 22     |        |    | 45 |    |
| 73273 | 20    |        |        |        |        |    | 50 |    |
| 73274 | 21    | 31     | 28     | 24     | 18     |    | 55 |    |
| 73275 | 22    |        | 30     | 26     |        |    | 65 |    |

⊕ 1000V | IEC 60900

■ INCH

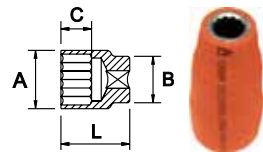
■ 6 PT.



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g  |    |
|-------|---------|--------|--------|--------|--------|----|----|----|
| 74940 | 1/4     |        | 12     |        |        |    |    |    |
| 74941 | 9/32    |        | 13     |        |        |    | 25 |    |
| 74942 | 5/16    |        | 14     | 17     | 12     |    |    |    |
| 74943 | 11/32   | 27     | 15     |        |        | 6  |    | 10 |
| 74944 | 3/8     |        | 16     |        |        |    | 31 |    |
| 74945 | 7/16    |        | 17     |        |        |    |    |    |
| 74946 | 1/2     |        | 18     | 18     |        |    | 33 |    |
| 74947 | 9/16    |        | 20     |        | 14     |    |    |    |

⊕ 1000V | IEC 60900

■ 12 PT.



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g  |    |
|-------|---------|--------|--------|--------|--------|----|----|----|
| 73477 | 1/4     |        | 12     |        |        |    |    |    |
| 73478 | 5/16    |        | 13     |        |        |    | 25 |    |
| 73479 | 11/32   |        | 14     | 17     | 12     |    |    |    |
| 73480 | 3/8     | 27     | 15     |        |        |    | 31 |    |
| 73481 | 7/16    |        | 16     |        |        |    |    |    |
| 73482 | 1/2     |        | 17     |        |        |    |    |    |
| 73484 | 19/32   |        | 18     | 18     |        | 12 | 33 | 10 |
| 73485 | 5/8     |        | 22     | 19     | 14     |    | 35 |    |
| 73486 | 11/16   | 29     | 24     | 21     |        |    |    |    |
| 73487 | 3/4     |        | 26     | 22     |        |    | 45 |    |
| 73488 | 13/16   | 31     | 28     | 24     | 16     |    | 50 |    |
| 73489 | 7/8     |        | 30     | 26     | 18     |    | 65 |    |

⊕ 1000V | IEC 60900

# 33

1000V



■ 3/8"

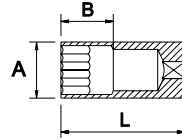
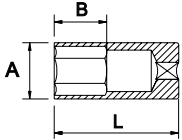
■ SERIE LARGA / LONG SOCKET / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

■ MM

■ 6 PT.

■ INCH

■ 12 PT.



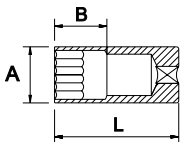
| COD.  | AF mm | L (mm) | A (mm) | B (mm) | Pt | g   | Icon |
|-------|-------|--------|--------|--------|----|-----|------|
| 75115 | 7     |        | 12     |        |    | 90  |      |
| 75116 | 8     |        | 13     | 12     |    |     |      |
| 75117 | 9     |        | 14     |        |    |     |      |
| 75118 | 10    |        | 15     |        |    |     |      |
| 75119 | 11    |        | 16     | 14     |    | 95  |      |
| 75120 | 12    |        | 18     |        |    |     |      |
| 75121 | 13    |        | 20     |        |    |     |      |
| 75122 | 14    | 62     |        |        | 6  |     | 10   |
| 75123 | 15    |        | 22     | 18     |    | 105 |      |
| 75124 | 16    |        | 24     |        |    |     |      |
| 75125 | 17    |        | 24     |        |    | 135 |      |
| 75126 | 18    |        | 27     |        |    | 165 |      |
| 75127 | 19    |        | 27     |        |    | 160 |      |
| 75129 | 21    |        | 29     | 20     |    | 185 |      |
| 75130 | 22    |        | 31     |        |    | 210 |      |

| COD.  | AF inch | L (mm) | A (mm) | B (mm) | Pt | g   | Icon |
|-------|---------|--------|--------|--------|----|-----|------|
| 75160 | 1/4     |        | 11     |        |    | 90  |      |
| 75161 | 5/16    |        | 13     | 12     |    |     |      |
| 75162 | 3/8     |        | 15     |        |    |     |      |
| 75163 | 7/16    |        | 17     | 14     |    | 95  |      |
| 75164 | 1/2     |        | 19     |        |    |     |      |
| 75165 | 9/16    | 62     | 21     |        | 12 |     | 10   |
| 75166 | 19/32   |        | 22     | 18     |    | 105 |      |
| 75167 | 5/8     |        | 24     |        |    | 145 |      |
| 75168 | 11/16   |        | 26     |        |    | 160 |      |
| 75169 | 3/4     |        | 28     | 20     |    | 185 |      |
| 75170 | 13/16   |        | 28     |        |    | 185 |      |
| 75171 | 7/8     |        | 30     |        |    | 210 |      |

⚡ 1000V | IEC 60900

⚡ 1000V | IEC 60900

■ 12 PT.






| COD.  | AF mm | L (mm) | A (mm) | B (mm) | Pt | g   | Icon |
|-------|-------|--------|--------|--------|----|-----|------|
| 75140 | 7     |        | 12     |        |    | 90  |      |
| 75141 | 8     |        | 13     | 12     |    |     |      |
| 75142 | 9     |        | 14     |        |    |     |      |
| 75143 | 10    |        | 15     |        |    |     |      |
| 75144 | 11    |        | 16     | 14     |    | 95  |      |
| 75145 | 12    |        | 18     |        |    |     |      |
| 75146 | 13    |        | 20     |        |    |     |      |
| 75147 | 14    | 62     |        |        | 12 |     | 10   |
| 75148 | 15    |        | 23     | 18     |    | 105 |      |
| 75149 | 16    |        | 25     |        |    | 135 |      |
| 75150 | 17    |        | 25     |        |    | 135 |      |
| 75151 | 18    |        | 27     |        |    | 165 |      |
| 75152 | 19    |        | 27     |        |    | 160 |      |
| 75153 | 20    |        | 29     | 20     |    | 185 |      |
| 75154 | 21    |        | 29     |        |    | 185 |      |
| 75155 | 22    |        | 31     |        |    | 210 |      |

⚡ 1000V | IEC 60900




## 3/8"

**PUNTAS ATORNILLADORAS CON VASO / SOCKET BITS / EMBOUTS DE VISSAGE AVEC DOUILLE / STECKSCHLÜSSELEINSATZ / INSERTI A BUSSOLA / ONTAS APARAFUSADORAS COM CAIXA / ГОЛОВКИ-БИТЫ**
**HEXAGONAL / HEXAGONAL / HEXAGONALE / HEXAGONAL / ESAGONALE / HEZAGONAL / ШЕСТИГРАННАЯ**

| COD.  |  |  |  |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 73290 | 3                                                                                 | 42                                                                                |                                                                                   |
| 73291 | 4                                                                                 | 44                                                                                |                                                                                   |
| 73292 | 5                                                                                 | 46                                                                                |                                                                                   |
| 73293 | 6                                                                                 | 50                                                                                | 10                                                                                |
| 73294 | 7                                                                                 | 65                                                                                |                                                                                   |
| 73295 | 8                                                                                 | 80                                                                                |                                                                                   |
| 73296 | 10                                                                                | 80                                                                                |                                                                                   |




 1000V | IEC 60900

**HEXAGONAL SERIE LARGA / HEXAGONAL LONG / HEXAGONALE SÉRIE LONGUE / HEXAGONAL LANG / ESAGONALE SERIE LUNGA / HEXAGONAL SÉRIE LONGA / ШЕСТИГРАННАЯ ВЫСОКАЯ СЕРИЯ**

| COD.  |  |  |  |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 79939 | 4                                                                                 |                                                                                   | 54                                                                                |
| 79940 | 5                                                                                 |                                                                                   | 56                                                                                |
| 79941 | 6                                                                                 | 10                                                                                | 60                                                                                |
| 79942 | 8                                                                                 |                                                                                   | 75                                                                                |
| 79943 | 10                                                                                |                                                                                   | 90                                                                                |




 1000V | IEC 60900

## TORX®

| COD.  |  | L (mm) |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|
| 79892 | T-10                                                                                |        | 38                                                                                  |
| 79893 | T-15                                                                                |        |                                                                                     |
| 79894 | T-20                                                                                |        | 39                                                                                  |
| 79895 | T-25                                                                                |        |                                                                                     |
| 79896 | T-27                                                                                | 68     | 40                                                                                  |
| 79498 | T-30                                                                                |        | 39                                                                                  |
| 79950 | T-35                                                                                |        | 44                                                                                  |
| 79897 | T-40                                                                                |        | 40                                                                                  |
| 79898 | T-45                                                                                |        | 44                                                                                  |
| 79951 | T-50                                                                                |        | 45                                                                                  |




 1000V | IEC 60900

**TORX® SERIE LARGA / TORX® LONG / TORX® SÉRIE LONGUE / TORX® LANGE SERIE / TORX® SERIE LUNGA / TORX® SÉRIE LONGA / TORX® ВЫСОКАЯ СЕРИЯ**

| COD.  |  | L (mm) |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|
| 79952 | T-25                                                                                |        | 55                                                                                  |
| 79953 | T-30                                                                                |        |                                                                                     |
| 79954 | T-35                                                                                | 120    |                                                                                     |
| 79955 | T-50                                                                                |        | 70                                                                                  |


 1000V | IEC 60900

## TAMPER TORX


| COD.  |  | L (mm) |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|
| 79956 | TT-45                                                                               | 68     | 44                                                                                  |


 1000V | IEC 60900



## 3/8"

**TAMPER TORX SERIE LARGA / TAMPER TORX LONG / TAMPER TORX SÉRIE LONGUE / TAMPER TORX LANG / TAMPER TORX SERIE LUNGA / TAMPER TORX SÉRIE LONGA / TAMPER TORX ВЫСОКАЯ СЕРИЯ**

| COD.         |  | L (mm) |  |
|--------------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|
| <b>79957</b> | TT-45                                                                             | 120    | 70                                                                                |





 1000V | IEC 60900

**LLAVE DE CARRACA REVERSIBLE / REVERSIBLE RATCHET HANDLE / CLÉ À CLIQUET RÉVERSIBLE / UMSCHALTKNARRE / CHIAVE A CRICCO REVERSIBILE / ROQUETE REVERSIVEL / РЕВЕРСИВНАЯ ТРЕЩЕТКА**

| COD.         |  | L (mm) |  |  |  |
|--------------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>73685</b> | 3/8                                                                               | 200    | 390                                                                               | 6                                                                                 | ●                                                                                   |

 1000V | IEC 60900

**ALARGADERA / EXTENSION / RALLONGE / VERLÄNGERUNG / PROLUNGA / EXTENÇÃO / УДЛИНИТЕЛЬ**

| COD.         |  | L (mm) |  |  |  |
|--------------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>74236</b> | 3/8                                                                               | 50     | 50                                                                                | 6                                                                                 | ●                                                                                   |
| <b>73276</b> |                                                                                   | 100    | 110                                                                               |                                                                                   |                                                                                     |
| <b>73280</b> |                                                                                   | 125    | 112                                                                               |                                                                                   |                                                                                     |
| <b>73281</b> |                                                                                   | 250    | 290                                                                               |                                                                                   |                                                                                     |

 1000V | IEC 60900

**MANGO EN T / T HANDLE / POIGNÉE T / T-GRIFF / IMPUGNATURA A T / PUNHO DE T / Т-ОБРАЗНАЯ РУКОЯТКА**

| COD.         |  | L (mm) |  |  |  |
|--------------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>73283</b> | 3/8                                                                                 | 200    | 600                                                                                 | 6                                                                                   | ●                                                                                     |

 1000V | IEC 60900

**ADAPTADOR / ADAPTER / ADAPTATEUR / VERBINDUNGSTEILE / ADATTATORE / REDUTOR / АДАПТОР**

| COD.         |  |  |  |  |  |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>73284</b> | 3/8-1/2                                                                             |                                                                                     | 47                                                                                  | 5                                                                                   | ●                                                                                    |

 1000V | IEC 60900



| COD.         |  |  |  |  |  |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>73285</b> | 3/8-1/4                                                                             |                                                                                     | 65                                                                                  | 5                                                                                   | ●                                                                                    |

 1000V | IEC 60900



3/8"

**JUEGOS LLAVES DE VASO / SOCKET WRENCHES SETS / SETS DOUILLES / WERKZEUGSÄTZE FÜR STECKSCHLÜSSEL / KIT BUSSOLE DOPPEN / JOGOS CHAVES DE CAIXA / НАБОР ГОЛОВКИ**

8 PCS.

STANDARD




| COD.         | PCS. | AF inch | AF mm      | Medidas en / Sizes in / Mesures en |  |  |
|--------------|------|---------|------------|------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>79071</b> | 8    | 3/8     | 8-10-13-17 | mm                                 | 51079                                                                             | 1,5                                                                               |

| PCS. | Composición / Composition / Composition | Descripción / Description / Description |                |
|------|-----------------------------------------|-----------------------------------------|----------------|
| 1    | 73685                                   | Carraca / Ratchet                       | 1000V          |
| 4    | 74916, 74918, 74921, 74925              | Vasos / Sockets                         |                |
| 2    | 73291, 73292                            | Boquilla hexagonal / Hexagonal sockets  | 4-5 mm - 1000V |
| 1    | 73280                                   | Alargadera / Extension                  | 1000V          |

10 PCS.



STANDARD



| COD.         | PCS. | AF inch | AF mm               | Medidas en / Sizes in / Mesures en |  |  |
|--------------|------|---------|---------------------|------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>79072</b> | 10   | 3/8     | 8-10-13-14-17-19-21 | mm                                 | 51053                                                                               | 2                                                                                   |



| PCS. | Composición / Composition / Composition         | Descripción / Description / Description |              |
|------|-------------------------------------------------|-----------------------------------------|--------------|
| 1    | 73685                                           | Carraca / Ratchet                       | 1000V        |
| 7    | 74916, 74918, 74921, 74922, 74925, 74927, 74929 | Vasos / Sockets                         |              |
| 1    | 73292                                           | Boquilla hexagonal / Hexagonal sockets  | 5 mm - 1000V |
|      | 73280                                           | Alargadera / Extension                  | 1000V        |



| COD.         | PCS. | AF inch | AF inch          | Medidas en / Sizes in / Mesures en |  |  |
|--------------|------|---------|------------------|------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>79437</b> | 8    | 3/8     | 1/4-5/16-3/8-1/2 | inch                               | 51079                                                                               | 1,5                                                                                 |

| PCS. | Composición / Composition / Composition | Descripción / Description / Description |                |
|------|-----------------------------------------|-----------------------------------------|----------------|
| 1    | 73685                                   | Carraca / Ratchet                       | 1000V          |
| 4    | 73477, 73478, 73480, 73482              | Vasos / Sockets                         |                |
| 2    | 73291, 73292                            | Boquilla hexagonal / Hexagonal sockets  | 4-5 mm - 1000V |
| 1    | 73280                                   | Alargadera / Extension                  | 1000V          |



| COD.         | PCS. | AF inch | AF inch                          | Medidas en / Sizes in / Mesures en |  |  |
|--------------|------|---------|----------------------------------|------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>79477</b> | 10   | 3/8     | 3/8-7/16-1/2-5/8-11/16-3/4-13/16 | inch                               | 51053                                                                                 | 2,5                                                                                   |

| PCS. | Composición / Composition / Composition         | Descripción / Description / Description |       |
|------|-------------------------------------------------|-----------------------------------------|-------|
| 1    | 73685                                           | Carraca / Ratchet                       | 1000V |
| 2    | 73276, 73280                                    | Alargadera / Extension                  |       |
| 7    | 73480, 73481, 73482, 73485, 73486, 73487, 73488 | Vasos / Sockets                         |       |

■ 3/8"

■ 11 PCS.

■ **SERIE LARGA / LONG SOCKET / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ**



| COD.         | PCS. | AF inch | AF inch | Medidas en / Sizes in / Mesures en                                                     |      |           |
|--------------|------|---------|---------|----------------------------------------------------------------------------------------|------|-----------|
| <b>79478</b> | 11   | 3/8     |         | 3/8-7/16-1/2-9/16-5/8-11/16-3/4-13/16" (Serie larga) / (Long pattern) / (Série longue) | inch | 51053 2,8 |

| PCS. | Composición / Composition / Composition                | Descripción / Description / Description | 1000V |
|------|--------------------------------------------------------|-----------------------------------------|-------|
| 1    | 73685                                                  | Carraca / Ratchet                       |       |
| 2    | 73276, 73280                                           | Alargadera / Extension                  |       |
| 8    | 75162, 75163, 75164, 75165, 75167, 75168, 75169, 75170 | Vasos (S.L.) / (L.S.) Sockets           |       |

■ 19 PCS.

■ **SERIE LARGA / LONG SOCKET / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ**



| COD.         | PCS. | AF inch | AF mm | Medidas en / Sizes in / Mesures en                                                 |    |           |
|--------------|------|---------|-------|------------------------------------------------------------------------------------|----|-----------|
| <b>73015</b> | 19   | 3/8     |       | 6-7-8-9-10-11-12-13-14-17-19-21 (10 Serie larga) / (Long pattern) / (Série longue) | mm | 51053 3,3 |

| PCS. | Composición / Composition / Composition                                            | Descripción / Description / Description | 1000V            |
|------|------------------------------------------------------------------------------------|-----------------------------------------|------------------|
| 1    | 73685                                                                              | Carraca / Ratchet                       |                  |
|      | 73280                                                                              | Alargadera / Extension                  |                  |
|      | 73283                                                                              | Mango en T / T Handle                   |                  |
| 12   | 74914, 74915, 74916, 74917, 74918, 74919, 74920, 74921, 74922, 74925, 74927, 74929 | Vasos / Sockets                         |                  |
| 1    | 75118                                                                              | Vasos (S.L.) / (L.S.) Sockets           |                  |
| 3    | 73291, 73292, 73294                                                                | Boquilla hexagonal / Hexagonal sockets  | 4-5-7 mm - 1000V |

■ 26 PCS.

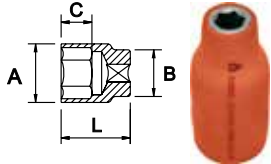
■ STANDARD



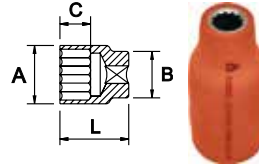
| COD.         | PCS. | AF inch | AF mm | Medidas en / Sizes in / Mesures en                |    |           |
|--------------|------|---------|-------|---------------------------------------------------|----|-----------|
| <b>79073</b> | 26   | 3/8     |       | 6-7-8-9-10-11-12-13-14-16-17-18-19-20-21-22-23-24 | mm | 51053 4,2 |

| PCS. | Composición / Composition / Composition                                                                                      | Descripción / Description / Description | 1000V                         |
|------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------|
| 1    | 73685                                                                                                                        | Carraca / Ratchet                       |                               |
| 18   | 74914, 74915, 74916, 74917, 74918, 74919, 74920, 74921, 74922, 74924, 74925, 74926, 74927, 74928, 74929, 74930, 74997, 74998 | Vasos / Sockets                         |                               |
| 4    | 73291, 73292, 73293, 73295                                                                                                   | Boquilla hexagonal / Hexagonal sockets  |                               |
| 1    | 73281                                                                                                                        | Alargadera / Extension                  |                               |
| 2    | 73284, 73285                                                                                                                 | Adaptador / Adapter                     | 3/8"-1/2" - 3/8"-1/4" - 1000V |

- 1/2"
- STANDARD
- MM
- 6 PT.



- 12 PT.



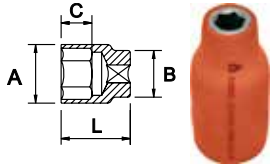
| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   |    |
|-------|-------|--------|--------|--------|--------|----|-----|----|
| 74960 | 8     |        | 14     |        | 5,0    |    | 50  |    |
| 74961 | 9     |        | 15     |        |        |    |     |    |
| 74962 | 10    |        | 16     |        | 6,0    |    |     |    |
| 74963 | 11    |        | 17     |        | 7,0    |    |     |    |
| 74964 | 12    |        | 18     | 21     | 8,0    |    | 55  |    |
| 74965 | 13    |        | 19     |        |        |    |     |    |
| 74966 | 14    |        | 21     |        |        |    |     |    |
| 74967 | 15    |        | 22     |        | 10     |    | 60  |    |
| 74968 | 16    | 40     | 24     | 22     |        |    | 70  |    |
| 74969 | 17    |        | 26     | 23     |        |    |     |    |
| 74970 | 18    |        | 28     | 26     |        |    |     |    |
| 74971 | 19    |        | 30     |        | 14     |    | 95  |    |
| 74972 | 20    |        | 32     |        |        |    |     |    |
| 74973 | 21    |        | 34     |        | 16     |    | 110 |    |
| 74974 | 22    |        | 36     |        | 18     |    | 140 |    |
| 74975 | 23    |        | 38     | 34     | 20     |    | 150 |    |
| 74976 | 24    |        | 40     |        | 22     |    | 160 |    |
| 74977 | 25    |        | 42     | 38     | 22     |    | 170 |    |
| 74978 | 26    | 44     | 44     |        |        |    | 180 |    |
| 74979 | 27    |        | 46     |        |        |    | 200 |    |
| 74980 | 28    |        | 48     |        |        |    | 210 |    |
| 74981 | 29    | 45     | 50     |        |        |    |     | 6  |
| 74982 | 30    |        | 52     |        |        |    |     | 10 |
| 74983 | 32    |        | 54     |        |        |    |     |    |

1000V I IEC 60900

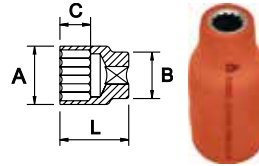
| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   |    |
|-------|-------|--------|--------|--------|--------|----|-----|----|
| 73400 | 8     |        | 14     |        | 5,0    |    | 50  |    |
| 73401 | 9     |        | 15     |        |        |    |     |    |
| 73402 | 10    |        | 16     |        | 6,0    |    |     |    |
| 73403 | 11    |        | 17     |        | 7,0    |    |     |    |
| 73404 | 12    |        | 18     | 21     | 8,0    |    | 55  |    |
| 73405 | 13    |        | 19     |        |        |    |     |    |
| 73406 | 14    |        | 21     |        |        |    |     |    |
| 73407 | 15    |        | 22     |        | 10     |    | 60  |    |
| 73408 | 16    | 40     | 24     | 22     |        |    | 70  |    |
| 73409 | 17    |        | 26     | 23     |        |    |     |    |
| 73410 | 18    |        | 28     | 26     |        |    |     |    |
| 73411 | 19    |        | 30     |        | 14     |    | 90  | 10 |
| 73412 | 20    |        | 32     |        |        |    |     |    |
| 73413 | 21    |        | 34     |        | 16     |    | 110 |    |
| 73414 | 22    |        | 36     |        | 18     |    | 140 |    |
| 74991 | 23    |        | 38     | 34     | 20     |    | 150 |    |
| 73416 | 24    |        | 40     |        | 22     |    | 160 |    |
| 74992 | 25    |        | 42     | 38     | 22     |    | 170 |    |
| 74993 | 26    | 44     | 44     |        |        |    | 180 |    |
| 73417 | 27    |        | 46     |        |        |    | 200 |    |
| 74994 | 28    |        | 48     |        |        |    | 210 |    |
| 74995 | 29    | 45     | 50     |        |        |    |     | 6  |
| 73420 | 30    |        | 52     |        |        |    |     | 10 |
| 73421 | 32    |        | 54     |        |        |    |     |    |

1000V I IEC 60900

- 1/2"
- INCH
- 6 PT.



- 12 PT.



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   |    |
|-------|---------|--------|--------|--------|--------|----|-----|----|
| 75000 | 5/16    |        | 15     |        |        |    | 45  |    |
| 75001 | 3/8     |        | 16     |        |        |    | 50  |    |
| 75002 | 7/16    |        | 17     |        |        |    | 55  |    |
| 75003 | 1/2     |        | 18     | 22     | 14     |    | 60  |    |
| 75004 | 9/16    |        | 21     |        |        |    | 70  |    |
| 75005 | 19/32   |        | 22     |        |        |    | 80  |    |
| 75006 | 5/8     |        |        |        |        |    | 90  |    |
| 75007 | 21/32   | 38     | 24     | 23     | 16     |    | 110 |    |
| 75008 | 11/16   |        |        | 24     |        |    | 120 |    |
| 75009 | 3/4     |        | 26     | 26     |        | 6  | 130 | 10 |
| 75010 | 25/32   |        | 28     | 28     | 20     |    | 140 |    |
| 75011 | 13/16   |        | 30     |        |        |    | 145 |    |
| 75012 | 7/8     |        | 32     |        |        |    | 160 |    |
| 75013 | 15/16   |        |        |        |        |    | 170 |    |
| 75014 | 31/32   |        |        | 30     |        |    | 180 |    |
| 75015 | 1       |        | 36     |        | 24     |    | 180 |    |
| 75016 | 1.1/16  | 42     | 38     |        |        |    | 180 |    |
| 75017 | 1.1/8   |        |        |        |        |    | 180 |    |
| 75018 | 1.3/16  | 45     | 40     | 31     | 28     |    | 200 |    |
| 75019 | 1.1/4   |        |        |        |        |    | 200 |    |

| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   |    |
|-------|---------|--------|--------|--------|--------|----|-----|----|
| 73491 | 5/16    |        | 15     |        |        |    | 45  |    |
| 73492 | 3/8     |        | 16     |        |        |    | 50  |    |
| 73493 | 7/16    |        | 17     |        |        |    | 55  |    |
| 73494 | 1/2     |        | 18     | 22     | 14     |    | 60  |    |
| 73495 | 9/16    |        | 21     |        |        |    | 70  |    |
| 73496 | 19/32   |        | 22     |        |        |    | 80  |    |
| 73497 | 5/8     |        |        |        |        |    | 90  |    |
| 73498 | 21/32   | 38     | 24     | 23     | 16     |    | 110 |    |
| 73499 | 11/16   |        |        | 24     |        |    | 120 |    |
| 73500 | 3/4     |        | 26     | 26     |        | 12 | 130 | 10 |
| 75025 | 25/32   |        | 28     | 28     | 20     |    | 140 |    |
| 73501 | 13/16   |        | 30     |        |        |    | 145 |    |
| 73502 | 7/8     |        | 32     |        |        |    | 160 |    |
| 73503 | 15/16   |        |        |        |        |    | 170 |    |
| 75028 | 31/32   |        |        | 30     |        |    | 180 |    |
| 75029 | 1       |        | 36     |        | 24     |    | 180 |    |
| 75030 | 1.1/16  | 42     | 38     |        |        |    | 180 |    |
| 75031 | 1.1/8   |        |        |        |        |    | 180 |    |
| 75032 | 1.3/16  | 45     | 40     | 31     | 28     |    | 200 |    |
| 75033 | 1.1/4   |        |        |        |        |    | 200 |    |

⊕ 1000V | IEC 60900

⊕ 1000V | IEC 60900

# EGAMaster

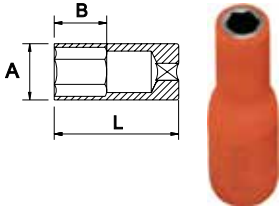
## ART IN INNOVATION

■ 1/2"

■ SERIE LARGA / LONG SOCKET / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

■ MM

■ 6 PT.

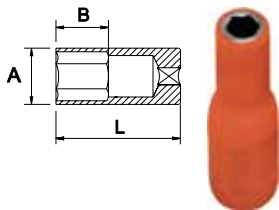


| COD.  | AF mm | L (mm) | A (mm) | B (mm) | Pt | g  | Icon |
|-------|-------|--------|--------|--------|----|----|------|
| 73430 | 10    | 75     | 17     | 9,0    | 6  | 10 | Icon |
| 73431 | 11    |        | 18     | 11     |    |    |      |
| 73432 | 12    |        | 19     | 12     |    |    |      |
| 73433 | 13    |        | 21     | 12     |    |    |      |
| 73434 | 14    |        | 22     |        |    |    |      |
| 73435 | 15    |        | 23     | 15     |    |    |      |
| 73436 | 16    |        |        |        |    |    |      |
| 73437 | 17    |        | 24     |        |    |    |      |
| 73438 | 18    |        | 26     |        |    |    |      |
| 73439 | 19    |        | 28     | 18     |    |    |      |
| 73440 | 21    | 30     |        |        |    |    |      |
| 73441 | 22    | 32     | 21     |        |    |    |      |
| 73442 | 23    | 34     | 24     |        |    |    |      |
| 73443 | 24    | 36     |        |        |    |    |      |
| 75205 | 26    | 38     | 27     |        |    |    |      |
| 75206 | 27    | 40     | 30     |        |    |    |      |
| 75207 | 28    | 42     |        |        |    |    |      |
| 75208 | 29    |        |        |        |    |    |      |
| 75209 | 30    |        |        |        |    |    |      |
| 75210 | 32    |        |        |        |    |    |      |

⊕ 1000V | IEC 60900

■ INCH

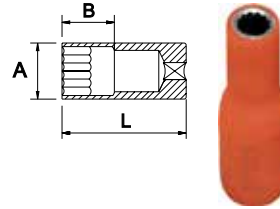
■ 6 PT.



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | Pt | g  | Icon |
|-------|---------|--------|--------|--------|----|----|------|
| 73378 | 3/8     | 75     | 17     | 6,0    | 6  | 10 | Icon |
| 73379 | 7/16    |        | 19     | 7,0    |    |    |      |
| 73380 | 1/2     |        | 20     | 8,0    |    |    |      |
| 73381 | 9/16    |        | 22     | 10     |    |    |      |
| 73382 | 5/8     |        | 24     | 15     |    |    |      |
| 73383 | 11/16   |        | 26     |        |    |    |      |
| 73384 | 3/4     |        | 28     | 18     |    |    |      |
| 73385 | 13/16   |        | 30     | 21     |    |    |      |
| 73386 | 7/8     |        | 32     | 24     |    |    |      |
| 73387 | 15/16   |        |        |        |    |    |      |

⊕ 1000V | IEC 60900

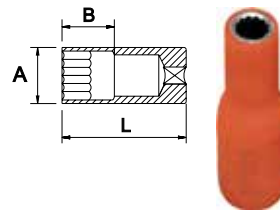
■ 12 PT.



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | Pt | g  | Icon |
|-------|-------|--------|--------|--------|----|----|------|
| 75180 | 10    | 75     | 17     | 9,0    | 12 | 10 | Icon |
| 75181 | 11    |        | 18     | 11     |    |    |      |
| 75182 | 12    |        | 19     | 12     |    |    |      |
| 75183 | 13    |        | 21     | 12     |    |    |      |
| 75184 | 14    |        | 22     |        |    |    |      |
| 75185 | 15    |        | 23     | 15     |    |    |      |
| 75186 | 16    |        |        |        |    |    |      |
| 75187 | 17    |        | 24     |        |    |    |      |
| 75188 | 18    |        | 26     |        |    |    |      |
| 75189 | 19    |        | 28     | 18     |    |    |      |
| 75191 | 21    | 30     |        |        |    |    |      |
| 75192 | 22    | 32     | 21     |        |    |    |      |
| 75193 | 23    | 34     | 24     |        |    |    |      |
| 75194 | 24    | 36     |        |        |    |    |      |
| 75195 | 26    | 38     | 27     |        |    |    |      |
| 75196 | 27    | 40     | 30     |        |    |    |      |
| 75197 | 28    | 42     |        |        |    |    |      |
| 75198 | 29    |        |        |        |    |    |      |
| 75199 | 30    |        |        |        |    |    |      |
| 75200 | 32    |        |        |        |    |    |      |

⊕ 1000V | IEC 60900

■ 12 PT.



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | Pt | g  | Icon |
|-------|---------|--------|--------|--------|----|----|------|
| 75215 | 3/8     | 75     | 17     | 6,0    | 12 | 10 | Icon |
| 75216 | 7/16    |        | 19     | 7,0    |    |    |      |
| 75217 | 1/2     |        | 20     | 8,0    |    |    |      |
| 75218 | 9/16    |        | 22     | 10     |    |    |      |
| 75219 | 5/8     |        | 24     | 15     |    |    |      |
| 75220 | 11/16   |        | 26     |        |    |    |      |
| 75221 | 3/4     |        | 28     | 18     |    |    |      |
| 75222 | 13/16   |        | 30     | 21     |    |    |      |
| 75223 | 7/8     |        | 32     | 24     |    |    |      |
| 75224 | 15/16   |        |        |        |    |    |      |
| 75225 | 1       | 36     | 24     |        |    |    |      |
| 75226 | 1.1/16  | 38     |        |        |    |    |      |
| 75227 | 1.1/8   |        |        |        |    |    |      |

⊕ 1000V | IEC 60900

## 1/2"

**LLAVE DE CARRACA REVERSIBLE / REVERSIBLE RATCHET HANDLE / CLÉ À CLIQUET RÉVERSIBLE / UMSCHALTKNARRE / CHIAVE A CRICCO REVERSIBILE / ROQUETE REVERSIVEL / РЕВЕРСИВНАЯ ТРЕЩЕТКА**

| COD.         | AF inch | L (mm) | g   |   |   |
|--------------|---------|--------|-----|---|---|
| <b>73683</b> | 1/2     | 235    | 645 | 6 | • |



**ALARGADERA / EXTENSION / RALLONGE / VERLÄNGERUNG / PROLUNGA / EXTENÇÃO / УДЛИНИТЕЛЬ**

| COD.         | AF inch | L (mm) | g   |   |   |
|--------------|---------|--------|-----|---|---|
| <b>73445</b> | 1/2     | 125    | 260 | 5 | • |
| <b>73446</b> |         | 250    | 360 |   |   |



**MANGO EN T / T HANDLE / POIGNÉE T / T-GRIFF / IMPUGNATURA A T / PUNHO DE T / Т-ОБРАЗНАЯ РУКОЯТКА**

| COD.         | AF inch | L (mm) | g   |   |   |
|--------------|---------|--------|-----|---|---|
| <b>73448</b> | 1/2     | 200    | 600 | 6 | • |



**PUNTA ATORNILLADORA CON VASO / SOCKET BITS / EMBOUTS DE VISSAGE AVEC DOUILLE / STECKSCHLÜSSELEINSATZ / INSERTI A BUSSOLA / ONTAS APARAFUSADORAS COM CAIXA / ГОЛОВКИ-БИТЫ**
**HEXAGONAL / HEXAGONAL / HEXAGONALE / HEXAGONAL / ESAGONALE / HEXAGONAL / ШЕСТИГРАННАЯ**

| COD.         | AF mm | g   |    |
|--------------|-------|-----|----|
| <b>73455</b> | 4     | 75  |    |
| <b>73456</b> | 5     |     |    |
| <b>73457</b> | 6     |     |    |
| <b>73458</b> | 7     | 80  |    |
| <b>73459</b> | 8     | 85  |    |
| <b>73460</b> | 9     | 90  |    |
| <b>73461</b> | 10    | 95  | 10 |
| <b>73462</b> | 11    |     |    |
| <b>73463</b> | 12    |     |    |
| <b>73464</b> | 13    | 135 |    |
| <b>73465</b> | 14    |     |    |
| <b>73468</b> | 17    | 160 |    |



**ADAPTADOR / ADAPTER / АДАПТАТЕУР / VERBINDUNGSTEILE / ADATTATORE / REDUTOR / АДАПТОР**

| COD.         | AF inch | AF inch | g  |   |   |
|--------------|---------|---------|----|---|---|
| <b>73286</b> | 1/2-1/4 |         | 80 | 5 | • |
| <b>73449</b> | 1/2-3/8 |         |    |   |   |




1/2"

**JUEGOS LLAVES DE VASO / SOCKET WRENCHES SETS / SETS DOUILLES / WERKZEUGSÄTZE FÜR STECKSCHLÜSSEL / KIT BUSSOLE DOPPEN / JOGOS CHAVES DE CAIXA / НАБОР ГОЛОВКИ**

10 PCS.

STANDARD



| COD.         | PCS. | AF inch | AF mm                  | Medidas en / Sizes in / Mesures en |       |   |
|--------------|------|---------|------------------------|------------------------------------|-------|---|
| <b>79074</b> | 10   | 1/2     | 8-10-13-17-18-19-21-22 | mm                                 | 51053 | 3 |

| PCS. | Composición / Composition / Composition                | Descripción / Description / Description |       |
|------|--------------------------------------------------------|-----------------------------------------|-------|
| 1    | 73683                                                  | Carraca / Ratchet                       |       |
| 8    | 73400, 73402, 73405, 73409, 73410, 73411, 73413, 73414 | Vasos / Sockets                         | 1000V |
| 1    | 73445                                                  | Alargadera / Extension                  |       |

12 PCS.

STANDARD



| COD.         | PCS. | AF inch | AF inch                                  | Medidas en / Sizes in / Mesures en |       |     |
|--------------|------|---------|------------------------------------------|------------------------------------|-------|-----|
| <b>79479</b> | 12   | 1/2     | 1/2-9/16-5/8-11/16-3/4-13/16-7/8-15/16-1 | inch                               | 51053 | 3,2 |

| PCS. | Composición / Composition / Composition                       | Descripción / Description / Description |       |
|------|---------------------------------------------------------------|-----------------------------------------|-------|
| 1    | 73683                                                         | Carraca / Ratchet                       |       |
| 2    | 73445, 73446                                                  | Alargadera / Extension                  | 1000V |
| 9    | 73494, 73495, 73497, 73499, 73500, 73501, 73502, 73503, 75029 | Vasos / Sockets                         |       |

14 PCS.

STANDARD



| COD.         | PCS. | AF inch | AF mm                             | Medidas en / Sizes in / Mesures en |       |     |
|--------------|------|---------|-----------------------------------|------------------------------------|-------|-----|
| <b>79075</b> | 14   | 1/2     | 8-9-10-11-12-13-14-17-19-21-22-23 | mm                                 | 51053 | 3,5 |

| PCS. | Composición / Composition / Composition                                            | Descripción / Description / Description |       |
|------|------------------------------------------------------------------------------------|-----------------------------------------|-------|
| 1    | 73683                                                                              | Carraca / Ratchet                       |       |
| 12   | 73400, 73401, 73402, 73403, 73404, 73405, 73406, 73409, 73411, 73413, 73414, 74991 | Vasos / Sockets                         | 1000V |
| 1    | 73445                                                                              | Alargadera / Extension                  |       |

**SERIE LARGA / LONG SOCKET / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ**



| COD.         | PCS. | AF inch | AF inch                                                                                  | Medidas en / Sizes in / Mesures en |       |     |
|--------------|------|---------|------------------------------------------------------------------------------------------|------------------------------------|-------|-----|
| <b>79480</b> | 12   | 1/2     | 1/2-9/16-5/8-11/16-3/4-13/16-7/8-15/16-1 (Serie larga) / (Long pattern) / (Série longue) | inch                               | 51054 | 6,6 |

| PCS. | Composición / Composition / Composition                       | Descripción / Description / Description |       |
|------|---------------------------------------------------------------|-----------------------------------------|-------|
| 1    | 73683                                                         | Carraca / Ratchet                       |       |
| 2    | 73445, 73446                                                  | Alargadera / Extension                  | 1000V |
| 9    | 75217, 75218, 75219, 75220, 75221, 75222, 75223, 75224, 75225 | Vasos (S.L.) / (L.S.) Sockets           |       |



■ 1/2"

■ 15 PCS.

■ **SERIE LARGA / LONG SOCKET / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ**

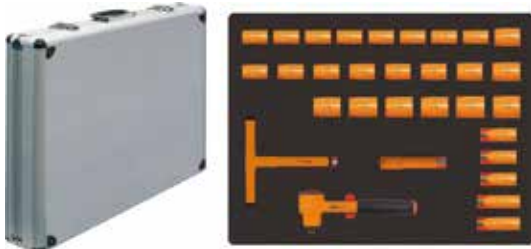


| COD.         | PCS. | AF inch | AF mm | Medidas en / Sizes in / Mesures en                                                     |    |         |
|--------------|------|---------|-------|----------------------------------------------------------------------------------------|----|---------|
| <b>79076</b> | 15   | 1/2     |       | 10-12-13-14-15-16-17-18-19-21-22-23-27 (Serie larga) / (Long pattern) / (Série longue) | mm | 51054 7 |

| PCS. | Composición / Composition / Composition                                                   | Descripción / Description / Description |       |
|------|-------------------------------------------------------------------------------------------|-----------------------------------------|-------|
| 1    | 73683                                                                                     | Carraca / Ratchet                       |       |
| 13   | 75180, 75182, 75183, 75184, 75185, 75186, 75187, 75188, 75189, 75191, 75192, 75193, 75196 | Vasos (S.L.) / (L.S.) Sockets           | 1000V |
| 1    | 73446                                                                                     | Alargadera / Extension                  |       |

■ 31 PCS.

■ STANDARD



| COD.         | PCS. | AF inch | AF mm | Medidas en / Sizes in / Mesures en                                 |    |          |
|--------------|------|---------|-------|--------------------------------------------------------------------|----|----------|
| <b>79077</b> | 31   | 1/2     |       | 8-9-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-32 | mm | 51054 10 |

| PCS. | Composición / Composition / Composition                                                                                                                         | Descripción / Description / Description |                          |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------|
| 1    | 73683                                                                                                                                                           | Carraca / Ratchet                       |                          |
| 23   | 73400, 73401, 73403, 73404, 73405, 73406, 73407, 73408, 73409, 73410, 73411, 73412, 73413, 73414, 74991, 73416, 74992, 74993, 73417, 74994, 74995, 73420, 73421 | Vasos / Sockets                         | 1000V                    |
| 5    | 73459, 73461, 73463, 73465, 73468                                                                                                                               | Boquilla hexagonal / Hexagonal sockets  | 8-10-12-14-17 mm - 1000V |
| 1    | 73445                                                                                                                                                           | Alargadera / Extension                  | 1000V                    |
| 1    | 73448                                                                                                                                                           | Mango en T / T Handle                   |                          |

■ 18 PCS.

■ STANDARD



| COD.         | PCS. | AF inch   | AF mm | Medidas en / Sizes in / Mesures en               |    |         |
|--------------|------|-----------|-------|--------------------------------------------------|----|---------|
| <b>73017</b> | 18   | 1/2 - 1/4 |       | 6-7 (1/4"); 8-9-10-11-12-13-14-16-17-18-19-21-23 | mm | 51053 3 |

| PCS. | Composición / Composition / Composition                                                   | Descripción / Description / Description |           |
|------|-------------------------------------------------------------------------------------------|-----------------------------------------|-----------|
| 1    | 73683                                                                                     | Carraca / Ratchet                       |           |
| 2    | 73445                                                                                     | Alargadera / Extension                  |           |
| 15   | 73232, 73233                                                                              |                                         | 1000V     |
| 15   | 73400, 73401, 73402, 73403, 73404, 73405, 73406, 73408, 73409, 73410, 73411, 73413, 74991 | Vasos / Sockets                         |           |
| 1    | 73286                                                                                     | Adaptador / Adapter                     | 1/2"-1/4" |

■ 32 PCS.

■ STANDARD



| COD.         | PCS. | AF inch | AF mm | Medidas en / Sizes in / Mesures en                                    |    |           |
|--------------|------|---------|-------|-----------------------------------------------------------------------|----|-----------|
| <b>73016</b> | 32   | 1/2     |       | 8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-32 | mm | 51053 7,3 |

| PCS. | Composición / Composition / Composition                                                                                                                                | Descripción / Description / Description |                          |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------|
| 1    | 73683                                                                                                                                                                  | Carraca / Ratchet                       |                          |
| 1    | 73445                                                                                                                                                                  | Alargadera / Extension                  |                          |
| 24   | 73400, 73401, 73402, 73403, 73404, 73405, 73406, 73407, 73408, 73409, 73410, 73411, 73412, 73413, 73414, 74991, 73416, 74992, 74993, 73417, 74994, 74995, 73420, 73421 | Vasos / Sockets                         | 1000V                    |
| 5    | 73459, 73461, 73463, 73465, 73468                                                                                                                                      | Boquilla hexagonal / Hexagonal sockets  | 8-10-12-14-17 mm - 1000V |

- 1/2"
- 37 PCS.
- **SERIE LARGA / LONG SOCKET / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ**



| COD.         | PCS. | AF<br>1/2" inch | AF<br>mm | Medidas en / Sizes in /<br>Mesures en                                                                                                             |    |            |
|--------------|------|-----------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------|----|------------|
| <b>79078</b> | 37   | 1/2             |          | 8-9-11-12-13-14-15-16-<br>17-18-19-20-21-22-23-<br>24-25-26-27-28-29-30-<br>32 (10-13-17-19 (Serie<br>larga) / (Long pattern) /<br>(Série longue) | mm | 51054 10,2 |

| PCS. | Composición / Composition /<br>Composition                                                                                                                                           | Descripción / Description /<br>Description |                            |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------|
| 1    | 73683                                                                                                                                                                                | Carraca / Ratchet                          |                            |
| 23   | 73400, 73401, 73403,<br>73404, 73405, 73406,<br>73407, 73408, 73409,<br>73410, 73411, 73412,<br>73413, 73414, 74991,<br>73416, 74992, 74993,<br>73417, 74994, 74995,<br>73420, 73421 | Vasos / Sockets                            | 1000V                      |
| 4    | 73430, 73433, 73437, 73439                                                                                                                                                           | Vasos (S.L.) / (L.S.) Sockets              |                            |
| 1    | 73449                                                                                                                                                                                | Adaptador / Adapter                        | 1/2"-3/8" - 1000V          |
| 6    | 73457, 73459, 73462,<br>73463, 73464, 73465                                                                                                                                          | Boquilla hexagonal /<br>Hexagonal sockets  | 6-8-11-12-13-14 mm - 1000V |
| 1    | 73445                                                                                                                                                                                | Alargadera / Extension                     | 1000V                      |
|      | 73448                                                                                                                                                                                | Mango en T / T Handle                      |                            |




# EGGA Master

## ART IN INNOVATION

**GUANTES AISLANTES / INSULATING GLOVES / GANTS ISOLANTS / SCHUTZHANDSCHUHE, ISOLIERT / GUANTI ISOLATE / LUVAS ISOLADAS / ИЗОЛЯЦИОННЫЕ ПЕРЧАТКИ**

| Resistente a: / Resistant to: / Résistance à: |                                                                           |
|-----------------------------------------------|---------------------------------------------------------------------------|
| <b>A</b>                                      | Ácido / Acid / Acide                                                      |
| <b>Z</b>                                      | Ozono / Ozone / Ozone                                                     |
| <b>H</b>                                      | Aceite / Oil / Huile                                                      |
| <b>C</b>                                      | Muy baja temperatura / Extremely low temperature / Très basse température |
| <b>R</b>                                      | A+Z+H                                                                     |


| COD.  | Clase / Class / Classe | Tensión de prueba (V) / Proof test voltage (V) / Tension d'essai (V) | Tensión de uso (V) / Use voltage (V) / Tension d'utilisation (V) | Tensión de resistencia (V) / Resistance voltage (V) / Tension de résistance (V) | L (mm) | Talla / Size / Taille | Categoría / Category / Catégorie |  |
|-------|------------------------|----------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------|--------|-----------------------|----------------------------------|-------------------------------------------------------------------------------------|
| 73746 |                        |                                                                      |                                                                  |                                                                                 |        | 7                     |                                  |                                                                                     |
| 73539 |                        |                                                                      |                                                                  |                                                                                 |        | 8                     |                                  |                                                                                     |
| 73540 | 00                     | 2.500                                                                | 500                                                              | 5.000                                                                           |        | 9                     |                                  | 150                                                                                 |
| 73541 |                        |                                                                      |                                                                  |                                                                                 |        | 10                    |                                  |                                                                                     |
| 73542 |                        |                                                                      |                                                                  |                                                                                 |        | 11                    |                                  |                                                                                     |
| 73748 |                        |                                                                      |                                                                  |                                                                                 |        | 7                     |                                  |                                                                                     |
| 73553 |                        |                                                                      |                                                                  |                                                                                 |        | 8                     | AZC                              |                                                                                     |
| 73554 | 0                      | 5.000                                                                | 1.000                                                            | 10.000                                                                          |        | 9                     |                                  | 250                                                                                 |
| 73555 |                        |                                                                      |                                                                  |                                                                                 |        | 10                    |                                  |                                                                                     |
| 73556 |                        |                                                                      |                                                                  |                                                                                 |        | 11                    |                                  |                                                                                     |
| 73557 |                        |                                                                      |                                                                  |                                                                                 | 360    | 8                     |                                  |                                                                                     |
| 73558 | 1                      | 10.000                                                               | 7.500                                                            | 20.000                                                                          |        | 9                     |                                  | 350                                                                                 |
| 73559 |                        |                                                                      |                                                                  |                                                                                 |        | 10                    |                                  |                                                                                     |
| 73560 |                        |                                                                      |                                                                  |                                                                                 |        | 11                    |                                  |                                                                                     |
| 73561 |                        |                                                                      |                                                                  |                                                                                 |        | 8                     |                                  |                                                                                     |
| 73562 | 2                      | 20.000                                                               | 17.000                                                           | 30.000                                                                          |        | 9                     |                                  | 500                                                                                 |
| 73563 |                        |                                                                      |                                                                  |                                                                                 |        | 10                    |                                  |                                                                                     |
| 73564 |                        |                                                                      |                                                                  |                                                                                 |        | 11                    |                                  |                                                                                     |
| 73565 |                        |                                                                      |                                                                  |                                                                                 |        | 8                     |                                  |                                                                                     |
| 73566 | 3                      | 30.000                                                               | 26.500                                                           | 40.000                                                                          |        | 9                     | RC                               | 700                                                                                 |
| 73567 |                        |                                                                      |                                                                  |                                                                                 |        | 10                    |                                  |                                                                                     |
| 73568 |                        |                                                                      |                                                                  |                                                                                 |        | 11                    |                                  |                                                                                     |
| 73569 |                        |                                                                      |                                                                  |                                                                                 |        | 9                     |                                  |                                                                                     |
| 73570 | 4                      | 40.000                                                               | 36.000                                                           | 50.000                                                                          | 410    | 10                    |                                  | 850                                                                                 |
| 73571 |                        |                                                                      |                                                                  |                                                                                 |        | 11                    |                                  |                                                                                     |


**CE 1000V** | IEC-EN 60903

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Almacenaje / Storage / Emballage           | Los guantes se deberán almacenar en su empaquetado original a una temperatura ambiente entre +5° y +35°C, en un lugar seco y oscuro, sin exposición directa a la luz solar, artificial u otras fuentes de ozono. / Gloves should be stored in their original package at a temperature between +5°C and +35°C in a dark and dry place, not exposed to direct sunlight, artificial light or sources of ozone. / Les gants devront être gardés dans leur emballage d'origine à une température ambiante comprise entre +5°C et +35°C, dans un lieu sec et obscur, sans exposition directe au rayon du soleil, à la lumière artificielle ou toutes autres sources d'ozone. |
| Inspección / Inspection / Inspection       | Antes de cada uso, llevar a cabo una inspección visual y comprobar el guante inflándolo para detectar posibles daños. Cualquier punción o perforación lo hace inutilizable. / Before each use, make a visual inspection and inflate the glove to detect possible damages. Any hole or perforation makes it unusable. / Avant chaque utilisation, réalisez une inspection visuelle et testez le gant en le gonflant afin de détecter d'éventuels dommages. Toute ponction ou perforation rend le gant inutilisable.                                                                                                                                                     |
| Limpieza / Cleaning / Nettoyage            | Usar agua y jabón para limpiarlos. / Use water and soap to clean them. / Utiliser de l'eau et du savon pour le nettoyer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Comprobación / Verification / Vérification | Se recomienda comprobar todos los guantes aislantes cada seis meses. / Testing the insulating gloves every six months is advisable. / Il est recommandé de tester les gants isolants tous les six mois.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

**SOBREGUANTES DE CUERO / LEATHER OVERGLOVES / SURGANTS CUIR / LEDER ÜBERHANDSCHUHE / SOPRAGUANTI IN PELLE / SOBRE-LUVA DE COURO / ЗАЩИТНЫЕ НАКЛАДНЫЕ ПЕРЧАТКИ КОЖАНЫЕ**

| COD.  | L (mm) | Clase / Class / Classe                           | Talla / Size / Taille | Válido para / Valid for / Valable pour   |  |
|-------|--------|--------------------------------------------------|-----------------------|------------------------------------------|-------------------------------------------------------------------------------------|
| 57121 | 280    | 00 (7)   0 (7)                                   | 7                     | 73746, 73748                             | 175                                                                                 |
| 57122 | 290    | 00 (8)   00 (9)   0 (8)   0 (9)                  | 8   9                 | 73539, 73540, 73553, 73554               |                                                                                     |
| 57123 | 300    | 00 (10)   0 (10)   1 (8)   1 (9)   2 (8)   2 (9) | 8   9   10            | 73541, 73555, 73557, 73558, 73561, 73562 |                                                                                     |
| 57124 | 310    | 00 (11)   0 (11)   1 (10)                        | 10   11               | 73559, 73542, 73556                      |                                                                                     |
| 57125 | 330    | 1 (11)   2 (10)   3 (8)   3 (9)   4 (9)          | 8   9   10   11       | 73560, 73563, 73565, 73566, 73569        |                                                                                     |
| 57144 | 340    | 2 (11)   3 (10)   4 (10)                         | 10   11               | 73564, 73567, 73570                      |                                                                                     |
| 57145 | 350    | 3 (11)   4 (11)                                  | 11                    | 73568, 73571                             |                                                                                     |


IEC-EN 60903

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Para su uso sobre los guantes aislantes con el fin protegerlos de los riesgos mecánicos, y si fuere el caso contra los riesgos de arco eléctrico. / Designed for its use over insulating gloves to protect against mechanical risks and, when necessary, against electric arc risks. / Pour les porter sur les gants isolants afin de les protéger des risques mécaniques et le cas échéant contre les risques d'arc électrique.


**GUANTES AISLANTES COMPOSITE / COMPOSITE INSULATING GLOVES / GANTS ISOLANTS COMPOSITES / KOMPOZIT ISOLIERHANDSCHUHE / GUANTI ISOLATI IN COMPOSITO / LUVAS ISOLANTES COMPOSITE / ИЗОЛИРУЮЩИЕ ПЕРЧАТКИ КОМПОЗИТНЫЕ**

|   | Resistente a: / Resistant to: / Résistance à:                             |
|---|---------------------------------------------------------------------------|
| A | Ácido / Acid / Acide                                                      |
| Z | Ozono / Ozone / Ozone                                                     |
| H | Aceite / Oil / Huile                                                      |
| C | Muy baja temperatura / Extremely low temperature / Très basse température |
| R | A+Z+H                                                                     |

| COD.  | Clase / Class / Classe | Tensión de prueba (V) / Proof test voltage (V) / Tension d'essai (V) | Tensión de uso (V) / Use voltage (V) / Tension d'utilisation (V) | Tensión de resistencia (V) / Resistance voltage (V) / Tension de résistance (V) | L (mm) | Talla / Size / Taille | Categoría / Category / Catégorie |  |
|-------|------------------------|----------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------|--------|-----------------------|----------------------------------|---------------------------------------------------------------------------------------|
| 79734 | 0                      | 5.000                                                                | 1.000                                                            | 10.000                                                                          | 410    | 7                     | RC                               | 600                                                                                   |
| 79735 |                        |                                                                      |                                                                  |                                                                                 |        | 8                     |                                  |                                                                                       |
| 79736 |                        |                                                                      |                                                                  |                                                                                 |        | 9                     |                                  |                                                                                       |
| 79737 |                        |                                                                      |                                                                  |                                                                                 |        | 10                    |                                  |                                                                                       |
| 79738 |                        |                                                                      |                                                                  |                                                                                 |        | 11                    |                                  |                                                                                       |
| 79739 | 12                     |                                                                      |                                                                  |                                                                                 |        |                       |                                  |                                                                                       |
| 79740 | 1                      | 10.000                                                               | 7.500                                                            | 20.000                                                                          | 410    | 8                     | RC                               | 650                                                                                   |
| 79741 |                        |                                                                      |                                                                  |                                                                                 |        | 9                     |                                  |                                                                                       |
| 79742 |                        |                                                                      |                                                                  |                                                                                 |        | 10                    |                                  |                                                                                       |
| 79743 |                        |                                                                      |                                                                  |                                                                                 |        | 11                    |                                  |                                                                                       |
| 79744 |                        |                                                                      |                                                                  |                                                                                 |        | 12                    |                                  |                                                                                       |
| 79745 | 2                      | 20.000                                                               | 17.000                                                           | 30.000                                                                          | 410    | 8                     | RC                               | 700                                                                                   |
| 79746 |                        |                                                                      |                                                                  |                                                                                 |        | 9                     |                                  |                                                                                       |
| 79747 |                        |                                                                      |                                                                  |                                                                                 |        | 10                    |                                  |                                                                                       |
| 79748 |                        |                                                                      |                                                                  |                                                                                 |        | 11                    |                                  |                                                                                       |
| 79749 |                        |                                                                      |                                                                  |                                                                                 |        | 12                    |                                  |                                                                                       |
| 79750 | 3                      | 30.000                                                               | 26.500                                                           | 40.000                                                                          | 410    | 8                     | RC                               | 800                                                                                   |
| 79751 |                        |                                                                      |                                                                  |                                                                                 |        | 9                     |                                  |                                                                                       |
| 79752 |                        |                                                                      |                                                                  |                                                                                 |        | 10                    |                                  |                                                                                       |
| 79753 |                        |                                                                      |                                                                  |                                                                                 |        | 11                    |                                  |                                                                                       |
| 79754 |                        |                                                                      |                                                                  |                                                                                 |        | 12                    |                                  |                                                                                       |
| 79755 | 4                      | 40.000                                                               | 36.000                                                           | 50.000                                                                          | 410    | 8                     | RC                               | 1100                                                                                  |
| 79756 |                        |                                                                      |                                                                  |                                                                                 |        | 9                     |                                  |                                                                                       |
| 79757 |                        |                                                                      |                                                                  |                                                                                 |        | 10                    |                                  |                                                                                       |
| 79758 |                        |                                                                      |                                                                  |                                                                                 |        | 11                    |                                  |                                                                                       |
| 79759 |                        |                                                                      |                                                                  |                                                                                 |        | 12                    |                                  |                                                                                       |


**CE 1000V** | IEC-EN 60903

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

 Protección eléctrica y mecánica / *Electrical and mechanical protection* / Protection électrique et mécanique

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Almacenaje / <i>Storage</i> / Emballage           | Los guantes se deberán almacenar en su empaquetado original a una temperatura ambiente entre +5° y +35°C, en un lugar seco y oscuro, sin exposición directa a la luz solar, artificial u otras fuentes de ozono. / <i>Gloves should be stored in their original package at a temperature between +5°C and +35°C in a dark and dry place, not exposed to direct sunlight, artificial light or sources of ozone.</i> / Les gants devront être gardés dans leur emballage d'origine à une température ambiante comprise entre +5°C et +35°C, dans un lieu sec et obscur, sans exposition directe au rayon du soleil, à la lumière artificielle ou toutes autres sources d'ozone. |
| Inspección / <i>Inspection</i> / Inspection       | Antes de cada uso, llevar a cabo una inspección visual y comprobar el guante inflándolo para detectar posibles daños. Cualquier punción o perforación lo hace inutilizable. / <i>Before each use, make a visual inspection and inflate the glove to detect possible damages. Any hole or perforation make it useless.</i> / Avant chaque utilisation, réalisez une inspection visuelle et testez le gant en le gonflant afin de détecter d'éventuels dommages. Toute ponction ou perforation rend le gant inutilisable.                                                                                                                                                       |
| Limpieza / <i>Cleaning</i> / Nettoyage            | Usar agua y jabón para limpiarlos. / <i>Use water and soap to clean them.</i> / Utiliser de l'eau et du savon pour le nettoyer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Comprobación / <i>Verification</i> / Vérification | Se recomienda comprobar todos los guantes aislantes cada seis meses. / <i>Testing the insulating gloves every six months is advisable.</i> / Il est recommandé de tester les gants isolants tous les six mois.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

**ACCESORIOS / ACCESORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACCESSORIOS / ЗАПАСНЫЕ ЧАСТИ**
**CAJAS DE TRANSPORTE / TRANSPORT BOXES / CAISSES DE TRANSPORT / TRANSPORTKISTEN / ASTUCCIO PER IL TRASPORTO / CAIXAS DE TRANSPORTE / КЕЙСЫ ДЛЯ ТРАНСПОРТИРОВКИ**

| COD.         | L x W x H (mm) |  |
|--------------|----------------|-------------------------------------------------------------------------------------|
| <b>58918</b> | 500x250x100    | 1100                                                                                |


| COD.         | L x W x H (mm) |  |
|--------------|----------------|-------------------------------------------------------------------------------------|
| <b>58919</b> | 500x250x100    | 1100                                                                                |


**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

 Accesorios incluidos / *Accessories Included* / Accessoires inclus
 

|                                                     |
|-----------------------------------------------------|
| Bote de talco / <i>Talc Bottle</i> / Talc en flacon |
|-----------------------------------------------------|

**MANTENIMIENTO / MAINTENANCE / MAINTENANCE / INSTANDHALTUNG / MANTENIMENTO / MANUTENÇÃO / ОБСЛУЖИВАНИЕ**
**LIMPIADOR PARA GUANTES Y ALFOMBRAS AISLANTES / CLEANER FOR GLOVES AND INSULATING CARPETS / NETTOYANT POUR GANTS ET TAPIS ISOLANTS / REINIGER FÜR HANDSCHUHE UND ISOLIERTE TEPPICHE / PULITORE PER GUANTI E TAPPETI ISOLATI / PRODUTO DE LIMPEZA PARA LUVAS E TAPETES ISOLANTES / ОЧИСТИТЕЛЬ ДЛЯ РУКАВИЦ**

| COD.         | CAP. (ml) |  |
|--------------|-----------|-------------------------------------------------------------------------------------|
| <b>58920</b> | 750       | 750                                                                                 |



**TESTER PARA GUANTES / GLOVE TESTER / TESTEUR POUR GANTS / HANDSCHUH-PRÜFER / TESTER PER GUANTI / TESTER PARA LUVAS / ПНЕВМАТИЧЕСКИЙ ТЕСТЕР ДЛЯ РУКАВИЦ**

| COD.  | Clase / Class / Classe                                  | Kg  |
|-------|---------------------------------------------------------|-----|
| 73490 | Clase 00-Class 0 / Class 00-Class 0 / Classe 00-Class 0 | 0,6 |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

El tester neumático solamente es apto para su uso con guantes de bajo voltage (clase 00 & clase 0) / The pneumatic tester can be only used for the low voltage gloves (class 00 and class 0) / Le testeur pneumatique est seulement utilisable avec des gants basse tension (classe 00 et classe 0)

**ALFOMBRAS AISLANTES / INSULATING CARPETS / TAPIS ISOLANTS / ISOLIERTEPPISCH / TAPPETO ISOLATO / TAPETES ISOLANTES / ДИЭЛЕКТРИЧЕСКИЙ КОВРИК**
**IEC-EN 60243-1**

| COD.  | mm  | L x W (mm)   | Resistencia dieléctrica (kV) / Dielectric Resistance (kV) / Résistance diélectrique (kV) | Kg  |   |
|-------|-----|--------------|------------------------------------------------------------------------------------------|-----|---|
| 73505 | 3   | 600 x 600    | 30                                                                                       | 1,4 | 1 |
| 73506 |     | 1000 x 600   |                                                                                          | 2,3 |   |
| 73507 |     | 5000 x 600   |                                                                                          | 12  |   |
| 73508 |     | 10000 x 600  |                                                                                          | 23  |   |
| 73514 |     | 1000 x 1200  |                                                                                          | 4,7 |   |
| 73515 |     | 2000 x 1200  |                                                                                          | 9,5 |   |
| 73516 |     | 5000 x 1200  |                                                                                          | 23  |   |
| 73517 |     | 10000 x 1200 |                                                                                          | 47  |   |
| 73518 | 4,5 | 1000 x 600   | 50                                                                                       | 3,1 |   |
| 73519 |     | 5000 x 600   |                                                                                          | 15  |   |
| 73520 |     | 10000 x 600  |                                                                                          | 31  |   |
| 73521 |     | 1000 x 1200  |                                                                                          | 5,0 |   |
| 73522 |     | 5000 x 1200  |                                                                                          | 26  |   |
| 73524 |     | 10000 x 1200 |                                                                                          | 60  |   |


**1000 V | IEC-EN 60243-1**
**IEC-EN 61111**

| COD.  | mm  | L x W (mm)   | Resistencia dieléctrica (kV) / Dielectric Resistance (kV) / Résistance diélectrique (kV) | Kg  |   |
|-------|-----|--------------|------------------------------------------------------------------------------------------|-----|---|
| 79899 | 3,2 | 600 X 600    | 26,5                                                                                     | 1,8 | 1 |
| 79927 |     | 600 X 1000   |                                                                                          | 3   |   |
| 79944 |     | 600 X 5000   |                                                                                          | 15  |   |
| 79945 |     | 600 X 10000  |                                                                                          | 30  |   |
| 79948 |     | 1200 X 1000  |                                                                                          | 6   |   |
| 79949 |     | 1200 X 2000  |                                                                                          | 12  |   |
| 79958 |     | 1200 X 5000  |                                                                                          | 30  |   |
| 79959 |     | 1200 X 10000 |                                                                                          | 60  |   |
| 79970 | 5   | 600 X 1000   | 36                                                                                       | 4,5 |   |
| 79975 |     | 600 X 5000   |                                                                                          | 23  |   |
| 79976 |     | 600 X 10000  |                                                                                          | 47  |   |
| 79977 |     | 1200 X 1000  |                                                                                          | 9,5 |   |
| 79978 |     | 1200 X 5000  |                                                                                          | 47  |   |
| 79979 |     | 1200 X 10000 |                                                                                          | 94  |   |


**1000 V | IEC-EN 61111**
**MANTAS AISLANTES / INSULATING BLANKETS / COUVERTURES ISOLANTES / ISOLIERENDE DECKEN / TAPPETI ISOLANTI / MANTAS ISOLANTES / ИЗОЛИРУЮЩАЯ ТКАНЬ**

| COD.  | mm  | LxW (mm)   | Resistencia dieléctrica (kV) / Dielectric Resistance (kV) / Résistance diélectrique (kV) | g    |   |
|-------|-----|------------|------------------------------------------------------------------------------------------|------|---|
| 79801 | 0,3 | 470x350    | 1                                                                                        | 125  | 1 |
| 79799 |     | 600x460    |                                                                                          | 150  |   |
| 79800 |     | 600x600    |                                                                                          | 175  |   |
| 79802 |     | 1000x600   |                                                                                          | 220  |   |
| 79803 |     | 1000x1200  |                                                                                          | 295  |   |
| 79804 |     | 2000x1200  |                                                                                          | 460  |   |
| 79805 |     | 5000x1200  |                                                                                          | 900  |   |
| 79806 |     | 10000x1200 |                                                                                          | 1600 |   |


**1000 V | IEC-EN 61112**

### ■ DESTORNILLADORES / SCREWDRIVERS / TOURNEVIS / HANDSCHRAUBER / CACCIAVITI / CHAVES DE FENDA / ОТВЕРТКИ



El aislamiento de la varilla de los destornilladores 1.000V de EGA Master, ha sido especialmente diseñado para acceder a espacios más reducidos gracias a su aislamiento conico, que le provee de un menor espesor en la punta.

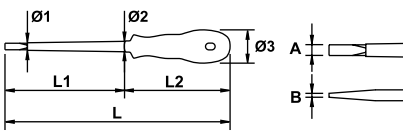
The insulation of EGA Master screwdrivers' bars has been specially designed to allow access to the smallest spaces, as the insulation is made in taper shape (conical), which provides less diameter close to the tip.

L'isolement de la lame des tournevis 1000V d'EGA Master, il a été spécialement conçu pour accéder à des espaces plus réduits grâce à son isolement conique, qui lui octroie une plus petite épaisseur sur la pointe.

### ■ MASTERTORK

### ■ ELECTRICISTA / ELECTRICIAN / ELECTRICIEN / ELEKTRIKER / PER ELETTRICISTI / ELETRICISTA / ЭЛЕКТРИЧЕСКАЯ

### ■ MM

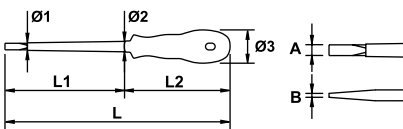


| COD.  | A (mm) | B (mm) | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |   |   |
|-------|--------|--------|----------|----------|----------|--------|---------|---------|----|---|---|
| 76620 | 2,5    | 0,4    |          |          |          | 160    | 75      |         |    |   |   |
| 76621 | 3      | 0,5    | 4,4      | 6,1      | 26       | 185    | 100     | 85      | 16 |   | ● |
| 76734 | 3,5    | 0,6    |          |          |          |        |         |         |    |   |   |
| 76622 | 4      | 0,8    | 5,4      | 7        |          | 230    | 125     | 105     | 8  | ● | ● |
| 76623 | 5,5    | 1      | 6,4      | 8,8      | 34       | 255    | 150     | 115     |    |   | ● |
| 76624 | 6,5    | 1,2    | 8,4      | 11       | 36       | 265    | 175     | 130     | 6  |   |   |
| 76625 | 8      | 1,6    | 9,4      | 12,3     | 40       | 305    | 200     | 130     | 6  |   |   |
| 76626 | 8      | 1,2    | 9,4      | 12,3     | 40       | 305    | 175     | 130     | 6  |   |   |
| 76627 | 10     | 1,6    | 11,4     | 15       | 40       | 330    | 200     | 130     | 6  |   |   |



1000V | IEC 60900 | DIN ISO 2380 | Modelo registrado / Registered model / Modèle enregistré

### ■ INCH

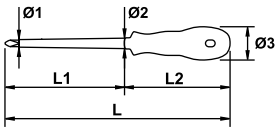


| COD.  | A (inch) | B (inch) | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (inch) | L2 (mm) |    |   |   |
|-------|----------|----------|----------|----------|----------|--------|-----------|---------|----|---|---|
| 75063 | 3/32     | 0,016    | 4,4      | 6,1      | 26       | 160    | 3         | 85      | 16 |   | ● |
| 75064 | 1/8      | 0,02     | 4,4      | 6,1      | 26       | 185    | 4         | 85      | 16 |   | ● |
| 75065 | 5/32     | 0,032    | 5,4      | 7        |          | 230    | 5         | 105     | 8  |   |   |
| 75066 | 7/32     | 0,04     | 6,4      | 8,8      | 34       | 255    | 6         | 115     |    | ● |   |
| 75067 | 7/32     | 0,04     | 6,4      | 8,8      | 34       | 255    | 6         | 115     |    |   |   |
| 75068 | 1/4      | 0,046    | 8,4      | 11       | 36       | 265    | 7         | 130     | 6  |   |   |
| 75069 | 5/16     | 0,046    | 9,4      | 12,3     | 40       | 305    | 7         | 130     | 6  |   |   |
| 75081 | 25/64    | 0,063    | 11,4     | 15       | 40       | 330    | 8         | 130     | 6  |   |   |



1000V | IEC 60900 | DIN ISO 2380 | Modelo registrado / Registered model / Modèle enregistré

## PHILLIPS®\*

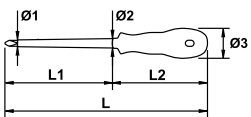


| COD.         |      | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |  |  |
|--------------|------|----------|----------|----------|--------|---------|---------|----|--|--|
| <b>76628</b> | PH-0 | 4,4      | 5        | 26       | 145    | 60      | 85      | 16 |  |  |
| <b>76738</b> | PH-1 | 6,4      | 7,6      | 34       | 185    | 80      | 105     | 8  |  |  |
| <b>76629</b> |      | 205      | 100      |          |        |         |         |    |  |  |
| <b>76630</b> | PH-2 | 7,4      | 9,6      | 36       | 240    | 125     | 115     |    |  |  |
| <b>76631</b> | PH-3 | 9,4      | 12,3     | 40       | 280    | 150     |         | 6  |  |  |
| <b>76632</b> | PH-4 |          |          |          | 330    | 200     | 130     |    |  |  |



1000V | IEC 60900 | DIN ISO 8764 | Modelo registrado / Registered model / Modèle enregistré

## PLANO-PHILLIPS®\* PARA BORNES ELÉCTRICOS / SLOTTED-PHILLIPS®\* FOR TERMINAL SCREWS / PHILLIPS®\*-À FENTE POUR BORNES ÉLECTRIQUES / SCHLITZ-PHILLIPS®\* SCHRAUBENDREHER FÜR SCHRAUBKLEMMEN / TAGLIO-PHILLIPS®\*PER TERMINALI ELETTRICI / FENDA-PHILLIPS®\* PARA BORNES ELÉCTRICOS / ОТВЕРТКА КРЕСТОВАЯ КЛЕМНАЯ PH

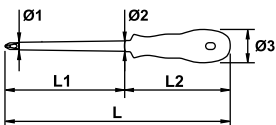


| COD.         |  | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |     |   |  |
|--------------|--|----------|----------|----------|--------|---------|---------|-----|---|--|
| <b>79163</b> |  | PH-1     | 6,4      | 7,6      | 34     | 205     | 100     | 105 | 8 |  |
| <b>79164</b> |  | PH-2     | 7,4      | 9,6      | 36     | 240     | 125     | 115 | 6 |  |



1000V | IEC 60900 | Modelo registrado / Registered model / Modèle enregistré

## POZIDRIV®\*



| COD.         |      | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |  |  |
|--------------|------|----------|----------|----------|--------|---------|---------|----|--|--|
| <b>76633</b> | PZ-0 | 4,4      | 5        | 26       | 145    | 60      | 85      | 16 |  |  |
| <b>76634</b> | PZ-1 | 6,4      | 7,6      | 34       | 205    | 100     | 105     | 8  |  |  |
| <b>76635</b> |      | 240      | 125      | 115      |        |         |         |    |  |  |
| <b>76636</b> | PZ-3 | 9,4      | 12,3     | 40       | 280    | 150     |         | 6  |  |  |
| <b>76637</b> | PZ-4 |          |          |          | 330    | 200     | 130     |    |  |  |

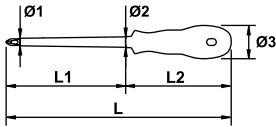


1000V | IEC 60900 | DIN ISO 8764 | Modelo registrado / Registered model / Modèle enregistré

\*Para tornillos PHILLIPS® (Marca registrada por Phillips Screw Company) / \*For screws PHILLIPS® (Phillips Screw Company registered trademark) / \*Pour vis PHILLIPS® (Marque enregistrée par Phillips Screw Company)  
\*Para tornillos POZIDRIV® (Marca registrada por European Ind. Serv. Ltd.) / \*For screws POZIDRIV® (European Ind. Serv. Ltd. registered trademark) / \*Pour vis POZIDRIV® (Marque enregistrée par European Ind. Serv. Ltd.)



**PLANO-POZIDRIV® PARA BORNES ELÉCTRICOS / SLOTTED-POZIDRIV® FOR TERMINAL SCREWS / POZIDRIV® -À FENTE POUR BORNES ÉLECTRIQUES / SCHLITZ-POZIDRIV® SCHRAUBENDREHER FÜR SCHRAUBKLEMMEN / TAGLIO-POZIDRIV® PER TERMINALI ELETTRICI / FENDA-POZIDRIV® PARA BORNES ELÉCTRICOS / ОТВЕРТКА КРЕСТОВАЯ POZIDRIV®**

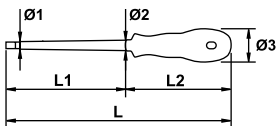


| COD.  |  | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |     |   |  |
|-------|--|----------|----------|----------|--------|---------|---------|-----|---|--|
| 79165 |  | PZ-1     | 6,4      | 7,6      | 34     | 205     | 100     | 105 | 8 |  |
| 79166 |  | PZ-2     | 7,4      | 9,6      | 36     | 240     | 125     | 115 | 6 |  |



1000V IEC 60900 | Modelo registrado / Registered model / Modèle enregistré

**TORX®**

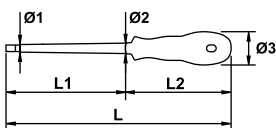


| COD.  |      | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |  |  |
|-------|------|----------|----------|----------|--------|---------|---------|----|--|--|
| 76638 | T-6  |          | 8        |          |        |         |         |    |  |  |
| 76639 | T-7  |          | 8        |          | 135    | 50      |         |    |  |  |
| 76640 | T-8  | 4,4      |          | 26       |        |         | 85      |    |  |  |
| 76641 | T-9  |          | 5        |          |        |         |         | 16 |  |  |
| 76642 | T-10 |          |          |          | 160    | 75      |         |    |  |  |
| 76643 | T-15 |          |          |          | 180    |         |         |    |  |  |
| 76644 | T-20 | 5,8      | 8        |          |        |         |         |    |  |  |
| 76645 | T-25 |          |          | 34       | 205    | 100     | 105     |    |  |  |
| 76646 | T-27 | 6,4      |          |          |        |         |         | 8  |  |  |
| 76647 | T-30 | 7,4      | 9,6      |          | 240    | 125     | 115     |    |  |  |
| 76648 | T-40 | 8,7      |          |          | 255    | 125     |         |    |  |  |
| 76649 | T-45 | 9,4      | 12,3     | 40       | 280    | 150     | 128     | 6  |  |  |
| 76650 | T-50 | 11,4     | 15       |          | 305    | 175     |         |    |  |  |



1000V IEC 60900 | Modelo registrado / Registered model / Modèle enregistré




**TAMPER TORX**



| COD.  |       | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |  |
|-------|-------|----------|----------|----------|--------|---------|---------|----|--|
| 75037 | TT-6  |          | 8        |          |        |         |         |    |  |
| 75038 | TT-7  |          | 8        |          | 135    | 50      |         |    |  |
| 75039 | TT-8  | 4,4      |          | 26       |        |         | 85      |    |  |
| 75040 | TT-9  |          | 5        |          |        |         |         | 16 |  |
| 75041 | TT-10 |          |          |          | 160    | 75      |         |    |  |
| 75042 | TT-15 |          |          |          | 180    |         |         |    |  |
| 75043 | TT-20 | 5,8      | 8        |          |        |         |         |    |  |
| 75044 | TT-25 |          |          | 34       | 205    | 100     | 105     |    |  |
| 75045 | TT-27 | 6,4      |          |          |        |         |         | 8  |  |
| 75046 | TT-30 | 7,4      | 9,6      |          | 240    | 125     | 115     |    |  |
| 75047 | TT-40 | 8,7      |          |          | 255    | 125     |         |    |  |
| 75048 | TT-45 | 9,4      | 12,3     | 40       | 280    | 150     | 128     | 6  |  |



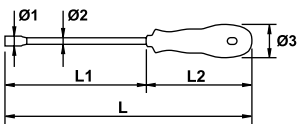
• \*Para tornillos POZIDRIV® (Marca registrada por European Ind. Serv. Ltd.) / \*For screws POZIDRIV® (European Ind. Serv. Ltd. registered trademark) / \*Pour vis POZIDRIV® (Marque enregistrée par European Ind. Serv. Ltd.)  
 • \*Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)




| COD.         |  | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |
|--------------|-----------------------------------------------------------------------------------|----------|----------|----------|--------|---------|---------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>75049</b> | TT-50                                                                             | 11,4     | 15       | 40       | 305    | 175     | 128     | 6                                                                                  | •                                                                                   |

  1000V | IEC 60900 | Modelo registrado / Registered model / Modèle enregistré

■ DE VASO / SOCKET SCREWDRIVER / CLÉ À DOUILLE EMMANCHÉE / 6-KANT STECKSCHLÜSSEL / BUSSOLE / DE CAIXA / ОТВЕРТКА С ГОЛОВКОЙ

■ MM

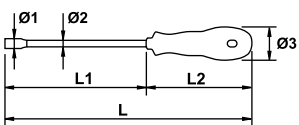





| COD.         |  | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |  |  |
|--------------|-----------------------------------------------------------------------------------|----------|----------|----------|--------|---------|---------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>74698</b> | 4                                                                                 |          |          |          |        |         |         |                                                                                    |                                                                                     |
| <b>74699</b> | 5                                                                                 | 11       | 7,5      | 34       | 255    | 150     | 105     | 8                                                                                  |                                                                                     |
| <b>74700</b> | 5,5                                                                               |          |          |          |        |         |         |                                                                                    |                                                                                     |
| <b>74701</b> | 6                                                                                 |          |          |          | 275    | 160     |         |                                                                                    |                                                                                     |
| <b>74702</b> | 7                                                                                 | 12,5     | 8,5      | 36       | 290    |         | 115     |                                                                                    |                                                                                     |
| <b>74703</b> | 8                                                                                 |          |          |          |        |         |         |                                                                                    | •                                                                                   |
| <b>74704</b> | 9                                                                                 | 16       | 10,5     |          |        |         |         |                                                                                    |                                                                                     |
| <b>74705</b> | 10                                                                                |          |          |          |        |         |         | 6                                                                                  |                                                                                     |
| <b>74706</b> | 11                                                                                |          |          | 40       | 305    | 175     | 130     |                                                                                    |                                                                                     |
| <b>74707</b> | 12                                                                                | 19       |          |          |        |         |         |                                                                                    |                                                                                     |
| <b>74708</b> | 13                                                                                |          | 11,5     |          |        |         |         |                                                                                    |                                                                                     |
| <b>74709</b> | 14                                                                                | 21       |          |          |        |         |         |                                                                                    |                                                                                     |



  1000V | IEC 60900 | Modelo registrado / Registered model / Modèle enregistré

■ INCH



| COD.         |  | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (inch) | L2 (mm) |  |  |
|--------------|-------------------------------------------------------------------------------------|----------|----------|----------|--------|-----------|---------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>75132</b> | 5/32                                                                                |          |          |          |        |           |         |                                                                                      |                                                                                       |
| <b>74984</b> | 3/16                                                                                | 11       | 7,5      | 34       | 255    | 6         | 105     | 8                                                                                    |                                                                                       |
| <b>75133</b> | 7/32                                                                                |          |          |          |        |           |         |                                                                                      |                                                                                       |
| <b>74985</b> | 1/4                                                                                 | 12,5     | 8,5      | 36       | 275    |           | 115     |                                                                                      |                                                                                       |
| <b>74986</b> | 5/16                                                                                |          |          |          |        |           |         |                                                                                      | •                                                                                     |
| <b>74987</b> | 3/8                                                                                 | 16       | 10,5     |          |        |           |         |                                                                                      |                                                                                       |
| <b>75136</b> | 25/64                                                                               |          |          | 40       | 305    | 7         | 130     | 6                                                                                    |                                                                                       |
| <b>74988</b> | 7/16                                                                                | 19       |          |          |        |           |         |                                                                                      |                                                                                       |
| <b>75138</b> | 15/32                                                                               |          | 11,5     |          |        |           |         |                                                                                      |                                                                                       |
| <b>74989</b> | 1/2                                                                                 | 21       |          |          |        |           |         |                                                                                      |                                                                                       |



  1000V | IEC 60900 | Modelo registrado / Registered model / Modèle enregistré

MM

| COD.  |    |    |     |     |   |   |
|-------|----|----|-----|-----|---|---|
| 74664 | 9  | 11 | 130 | 115 | 6 | • |
| 74665 | 10 |    |     |     |   |   |



1000V | IEC 60900

**DESTORNILLADOR PORTAPUNTAS MAGNÉTICO / MAGNETIC BITHOLDER SCREWDRIVER / TOURNEVIS PORTE-EMBOUS MAGNÉTIQUE / MAGNETISCHER BITHALTER-SCHRAUBENDREHER / CACCIAVITE PORTA INSERTI MAGNETICOM / CHAVE PORTA PONTAS MAGNETICO / ОТВЕРТКА С МАГНИТНЫМ БИТОДЕРЖАТЕЛЕМ**

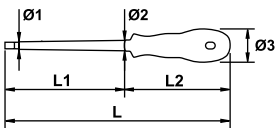
| COD.  |     | L (mm) |     |   |   |
|-------|-----|--------|-----|---|---|
| 76737 | 1/4 | 210    | 120 | 6 | • |



1000V | IEC 60900

HEXAGONAL ALLEN

MM

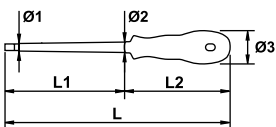


| COD.  |     | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |   |
|-------|-----|----------|----------|----------|--------|---------|---------|----|---|
| 74710 | 2,5 | 4,4      | 6        |          | 160    | 75      |         | 16 |   |
| 74711 | 3   | 5,8      | 8        | 26       | 185    | 100     |         | 8  | • |
| 74712 | 4   | 6,4      | 8        |          | 205    | 125     | 105     |    |   |
| 74713 | 5   | 7,8      | 11,2     | 34       | 230    | 150     | 130     | 6  | - |
| 74714 | 6   | 9,8      | 13,4     | 40       | 280    |         |         |    |   |
| 74715 | 8   |          |          |          |        |         |         |    |   |



1000V | ICE 60900 | Modelo registrado / Registered model / Modèle enregistré

INCH



| COD.  |       | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (inch) | L2 (mm) |    |   |
|-------|-------|----------|----------|----------|--------|-----------|---------|----|---|
| 75083 | 1/8   | 4,4      | 6        |          | 160    | 3         |         | 16 |   |
| 75084 | 5/32  | 5,8      | 8        | 26       | 185    | 4         | 85      | 8  | • |
| 75131 | 13/64 | 6,4      | 8        | 34       | 205    |           | 105     |    |   |
| 75097 | 5/16  | 9,8      | 13,4     | 40       | 280    | 6         | 130     | 6  | - |

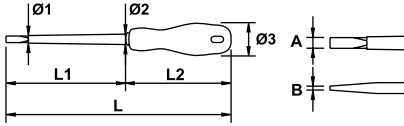


1000V | ICE 60900 | Modelo registrado / Registered model / Modèle enregistré

### ■ ROTORK

### ■ ELECTRICISTA / ELECTRICIAN / ELECTRICIEN / ELEKTRIKER / PER ELETRICISTI / ELETRICISTA / ЭЛЕКТРИЧЕСКАЯ

### ■ MM

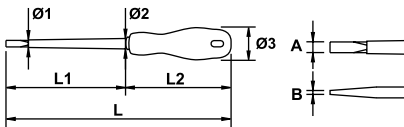


| COD.  | A (mm) | B (mm) | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |  |  |
|-------|--------|--------|----------|----------|----------|--------|---------|---------|----|--|--|
| 76730 | 2,5    | 0,4    | 4,4      | 6,1      | 22       | 135    | 60      | 75      | 16 |  |  |
| 76731 | 3      | 0,5    |          |          |          | 175    | 100     |         |    |  |  |
| 76651 |        |        |          |          |          |        |         |         |    |  |  |
| 76652 | 4      | 0,8    | 5,4      | 7        |          | 230    | 125     |         |    |  |  |
| 76653 | 5,5    | 1      | 6,4      | 8,8      | 31       | 255    | 150     | 105     | 8  |  |  |
| 76654 | 6,5    | 1,2    | 7,8      | 11       |          |        |         |         |    |  |  |
| 76732 | 8      |        | 9,4      | 12,3     |          | 290    | 175     |         |    |  |  |
| 76733 | 10     | 1,6    | 11,4     | 15       | 35       | 315    | 200     | 115     | 6  |  |  |
| 76125 | 12     | 2      | 13,5     | 16,5     |          | 318    |         | 118     |    |  |  |



1000V | IEC 60900 | DIN ISO 2380

### ■ INCH

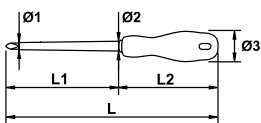


| COD.  | A (inch) | B (inch) | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (inch) | L2 (mm) |    |  |  |
|-------|----------|----------|----------|----------|----------|--------|-----------|---------|----|--|--|
| 75172 | 3/32     | 0,016    | 4,4      | 6,1      | 22       | 135    | 2         | 75      | 16 |  |  |
| 75175 | 5/32     | 0,032    | 5,4      | 7        |          | 230    | 5         |         |    |  |  |
| 75176 | 3/16     | 0,04     | 6,4      | 8,8      | 31       | 255    | 6         | 105     | 8  |  |  |
| 75177 | 1/4      |          | 7,8      | 11       |          |        |           |         |    |  |  |
| 75178 | 5/16     | 0,046    | 9,4      | 12,3     |          | 290    | 7         |         | 6  |  |  |
| 75179 | 25/64    | 0,063    | 11,4     | 15       | 35       | 315    | 8         | 115     |    |  |  |



1000V | IEC 60900 | DIN ISO 2380

### ■ PHILLIPS®\*



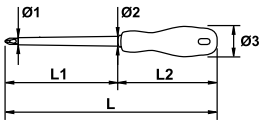
| COD.  |      | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |  |  |
|-------|------|----------|----------|----------|--------|---------|---------|----|--|--|
| 76655 | PH-0 | 4,4      | 5        | 22       | 135    | 60      | 75      | 16 |  |  |
| 76656 | PH-1 | 6,4      | 8        | 31       | 205    | 100     | 105     | 8  |  |  |
| 76657 | PH-2 | 7,4      | 9,6      |          | 230    | 125     |         |    |  |  |
| 76658 | PH-3 | 9,4      | 12,3     | 35       | 268    | 150     | 118     | 6  |  |  |
| 76735 | PH-4 |          |          |          | 318    | 200     |         |    |  |  |




1000V | IEC 60900 | DIN ISO 8764

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### POZIDRIV®\*



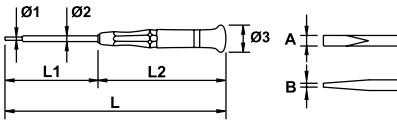
| COD.  |                                                                                   |      | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |   |
|-------|-----------------------------------------------------------------------------------|------|----------|----------|----------|--------|---------|---------|----|---|
| 76659 | -                                                                                 | PZ-0 | 4,4      | 5        | 22       | 135    | 60      | 75      | 16 |   |
| 76660 |                                                                                   | PZ-1 | 6,4      | 8        | 31       | 205    | 100     | 105     | 8  |   |
| 76661 |  | PZ-2 | 7,4      | 9,6      | 35       | 230    | 125     | 118     | 6  | • |
| 76662 |                                                                                   | PZ-3 | 9,4      | 12,3     | 35       | 268    | 150     | 118     | 6  |   |
| 76736 | -                                                                                 | PZ-4 | 9,4      | 12,5     | 35       | 318    | 200     | 118     | 6  |   |



  1000V | IEC 60900 | DIN ISO 8764

### MICROTRONIC

#### ELECTRICISTA / ELECTRICIAN / ELECTRICIEN / ELEKTRIKER / PER ELETTICISTI / ELETRICISTA / ЭЛЕКТРИЧЕСКАЯ

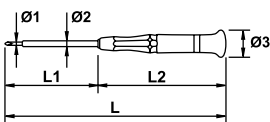


| COD.  | A (mm) | B (mm) | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |   |
|-------|--------|--------|----------|----------|----------|--------|---------|---------|----|---|
| 75156 | 1,5    | 0,23   | 1,5      | 3,1      |          | 140    | 40      |         |    |   |
| 75157 | 1,8    | 0,3    | 1,8      | 3,4      |          | 160    | 60      | 100     | 10 | • |
| 75158 | 2      | 0,4    | 2        | 3,6      | 19       | 175    | 75      |         |    |   |
| 75159 | 2,5    |        | 2,5      | 4,1      |          |        |         |         |    |   |
| 75201 | 3      | 0,5    | 3        | 4,6      |          |        |         |         |    |   |



  1000V | IEC 60900 | DIN ISO 2380

### PHILLIPS®\*



| COD.  |       | Ø 1 (mm) | Ø 2 (mm) | Ø 3 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |   |
|-------|-------|----------|----------|----------|--------|---------|---------|----|---|
| 75202 | PH-00 | 2,5      | 4,1      | 19       | 175    | 75      | 100     | 10 | • |
| 75203 | PH-0  | 3        | 4,6      | 19       | 175    | 75      | 100     | 10 | • |



  1000V | IEC 60900 | DIN ISO 8764

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 • \*Para tornillos POZIDRIV® (Marca registrada por European Ind. Serv. Ltd.) / \*For screws POZIDRIV® (European Ind. Serv. Ltd. registered trademark) / \*Pour vis POZIDRIV® (Marque enregistrée par European Ind. Serv. Ltd.)

■ EXPOSITORES Y SETS / *DISPLAYS AND SETS* / PRESENTOIRS ET SETS / *STÄNDER* / ESPOSITORI / *DISPLAY STAND* / СТЕНДЫ

■ MASTERTORK

■ 4 PCS.



| COD.         | PCS. |   |
|--------------|------|---|
| <b>76676</b> | 4    | A |
| <b>76677</b> |      | B |

| PCS. | COD.  | PCS. |  |
|------|-------|------|--|
| 1    | 76628 | PH0  |  |
|      | 76629 | PH1  |  |
|      | 76630 | PH2  |  |
|      | 76631 | PH3  |  |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>76664</b> | 4    | A |
| <b>76665</b> |      | B |

| PCS. | COD.  | PCS. |  |
|------|-------|------|--|
| 1    | 76633 | PZ0  |  |
|      | 76634 | PZ1  |  |
|      | 76635 | PZ2  |  |
|      | 76636 | PZ3  |  |

■ 5 PCS.



| COD.         | PCS. |   |
|--------------|------|---|
| <b>76667</b> | 5    | A |
| <b>76668</b> |      | B |

| PCS. | COD.  | PCS.         |  |
|------|-------|--------------|--|
| 1    | 76621 | 3 x 100 mm   |  |
|      | 76622 | 4 x 125 mm   |  |
|      | 76624 | 5,5 x 150 mm |  |
|      | 76625 | 6,5 x 150 mm |  |
|      | 76626 | 8 x 175 mm   |  |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>76910</b> | 5    | A |
| <b>76911</b> |      | B |

| PCS. | COD.  | PCS.         |  |
|------|-------|--------------|--|
| 1    | 76621 | 3 x 100 mm   |  |
|      | 76622 | 4 x 125 mm   |  |
|      | 76624 | 5,5 x 150 mm |  |
|      | 76634 | PZ1          |  |
|      | 76635 | PZ2          |  |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>76916</b> | 5    | A |
| <b>76917</b> |      | B |

| PCS. | COD.  | PCS. |  |
|------|-------|------|--|
| 1    | 76628 | PH0  |  |
|      | 76629 | PH1  |  |
|      | 76630 | PH2  |  |
|      | 76631 | PH3  |  |
|      | 76632 | PH4  |  |

■ 6 PCS.



| COD.         | PCS. |   |
|--------------|------|---|
| <b>76670</b> | 6    | A |
| <b>76671</b> |      | B |

| PCS. | COD.  | PCS.         |  |
|------|-------|--------------|--|
| 1    | 76620 | 2,5 x 75 mm  |  |
|      | 76621 | 3 x 100 mm   |  |
|      | 76622 | 4 x 125 mm   |  |
|      | 76624 | 5,5 x 150 mm |  |
|      | 76625 | 6,5 x 150 mm |  |
|      | 76626 | 8 x 175 mm   |  |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>76901</b> | 6    | A |
| <b>76902</b> |      | B |

| PCS. | COD.  | PCS.         |  |
|------|-------|--------------|--|
| 1    | 76621 | 3 x 100 mm   |  |
|      | 76622 | 4 x 125 mm   |  |
|      | 76624 | 5,5 x 150 mm |  |
|      | 76628 | PH0          |  |
|      | 76629 | PH1          |  |
|      | 76630 | PH2          |  |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>76922</b> | 6    | A |
| <b>76923</b> |      | B |

| PCS. | COD. PCS. |              |  |
|------|-----------|--------------|--|
| 1    | 76620     | 2,5 x 75 mm  |  |
|      | 76621     | 3 x 100 mm   |  |
|      | 76622     | 4 x 125 mm   |  |
|      | 76623     | 5,5 x 125 mm |  |
|      | 76629     | PH1          |  |
|      | 76630     | PH2          |  |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>76928</b> | 6    | A |
| <b>76929</b> |      | B |

| PCS. | COD. PCS. |              |  |
|------|-----------|--------------|--|
| 1    | 76621     | 3 x 100 mm   |  |
|      | 76622     | 4 x 125 mm   |  |
|      | 76625     | 6,5 x 150 mm |  |
|      | 76629     | PH1          |  |
|      | 76630     | PH2          |  |
|      | 76631     | PH3          |  |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>76934</b> | 6    | A |
| <b>76935</b> |      | B |

| PCS. | COD. PCS. |              |  |
|------|-----------|--------------|--|
| 1    | 76621     | 3 x 100 mm   |  |
|      | 76622     | 4 x 125 mm   |  |
|      | 76625     | 6,5 x 150 mm |  |
|      | 76633     | PZ0          |  |
|      | 76634     | PZ1          |  |
|      | 76635     | PZ2          |  |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>76931</b> | 6    | A |
| <b>76932</b> |      | B |

| PCS. | COD. PCS. |     |  |
|------|-----------|-----|--|
| 1    | 76640     | T8  |  |
|      | 76641     | T9  |  |
|      | 76642     | T10 |  |
|      | 76643     | T15 |  |
|      | 76644     | T20 |  |
|      | 76645     | T25 |  |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>76926</b> | 6    | B |

| PCS. | COD. PCS. |       |  |
|------|-----------|-------|--|
| 1    | 74701     | 6 mm  |  |
|      | 74702     | 7 mm  |  |
|      | 74703     | 8 mm  |  |
|      | 74704     | 9 mm  |  |
|      | 74705     | 10 mm |  |
|      | 74708     | 13 mm |  |

### 7 PCS.



| COD.         | PCS. |   |
|--------------|------|---|
| <b>76938</b> | 7    | B |

| PCS. | COD. PCS. |        |  |
|------|-----------|--------|--|
| 1    | 74699     | 5 mm   |  |
|      | 74700     | 5,5 mm |  |
|      | 74701     | 6 mm   |  |
|      | 74702     | 7 mm   |  |
|      | 74703     | 8 mm   |  |
|      | 74705     | 10 mm  |  |
|      | 74708     | 13 mm  |  |

### 8 PCS.






| COD.         | PCS. |   |
|--------------|------|---|
| <b>76674</b> | 8    | B |

| PCS. | COD. PCS. |              |  |
|------|-----------|--------------|--|
| 1    | 76621     | 3 x 100 mm   |  |
|      | 76622     | 4 x 125 mm   |  |
|      | 76624     | 5,5 x 150 mm |  |
|      | 76625     | 6,5 x 150 mm |  |
|      | 76629     | PH1          |  |
|      | 76630     | PH2          |  |
|      | 76634     | PZ1          |  |
|      | 76635     | PZ2          |  |




| COD.         | PCS. |   |
|--------------|------|---|
| <b>76919</b> | 8    | A |
| <b>76920</b> |      | B |

| PCS. | COD. PCS. |              |  |
|------|-----------|--------------|--|
| 1    | 76620     | 2,5 x 75 mm  |  |
|      | 76622     | 4 x 125 mm   |  |
|      | 76623     | 5,5 x 125 mm |  |
|      | 76625     | 6,5 x 150 mm |  |
|      | 76628     | PH0          |  |
|      | 76629     | PH1          |  |
|      | 76630     | PH2          |  |
|      | 76631     | PH3          |  |







| COD.         | PCS. |   |
|--------------|------|---|
| <b>76940</b> | 8    | A |
| <b>76941</b> |      | B |

| PCS. | COD.  | PCS.         |                                                                                   |
|------|-------|--------------|-----------------------------------------------------------------------------------|
| 1    | 76620 | 2,5 x 75 mm  |                                                                                   |
|      | 76621 | 3 x 100 mm   |  |
|      | 76622 | 4 x 125 mm   |  |
|      | 76625 | 6,5 x 150 mm |                                                                                   |
|      | 76628 | PH0          |                                                                                   |
|      | 76629 | PH1          |  |
|      | 76630 | PH2          |                                                                                   |
|      | 76631 | PH3          |                                                                                   |



| COD.         | PCS. |   |
|--------------|------|---|
| <b>76907</b> | 8    | A |
| <b>76908</b> |      | B |

| PCS. | COD.  | PCS.         |                                                                                    |
|------|-------|--------------|------------------------------------------------------------------------------------|
| 1    | 76620 | 2,5 x 75 mm  |                                                                                    |
|      | 76621 | 3 x 100 mm   |   |
|      | 76622 | 4 x 125 mm   |   |
|      | 76624 | 5,5 x 150 mm |                                                                                    |
|      | 76625 | 6,5 x 150 mm |                                                                                    |
|      | 76633 | PZ0          |                                                                                    |
|      | 76634 | PZ1          |  |
|      | 76635 | PZ2          |                                                                                    |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>76904</b> | 8    | A |
| <b>76905</b> |      | B |

| PCS. | COD.  | PCS.         |                                                                                     |
|------|-------|--------------|-------------------------------------------------------------------------------------|
| 1    | 76621 | 3 x 100 mm   |                                                                                     |
|      | 76622 | 4 x 125 mm   |  |
|      | 76624 | 5,5 x 150 mm |  |
|      | 76625 | 6,5 x 150 mm |                                                                                     |
|      | 76629 | PH1          |  |
|      | 76630 | PH2          |  |
|      | 76634 | PZ1          |  |
|      | 76635 | PZ2          |  |


| COD.         | PCS. |   |
|--------------|------|---|
| <b>76913</b> | 8    | A |
| <b>76914</b> |      | B |

| PCS. | COD.  | PCS. |                                                                                     |
|------|-------|------|-------------------------------------------------------------------------------------|
| 1    | 76628 | PH0  |                                                                                     |
|      | 76629 | PH1  |                                                                                     |
|      | 76630 | PH2  |  |
|      | 76631 | PH3  |                                                                                     |
|      | 76633 | PZ0  |                                                                                     |
|      | 76634 | PZ1  |                                                                                     |
|      | 76635 | PZ2  |  |
|      | 76636 | PZ3  |                                                                                     |

10 PCS.




| COD.         | PCS. |   |
|--------------|------|---|
| <b>79468</b> | 10   | C |


| PCS. | COD.  | PCS.   |                                                                                     |
|------|-------|--------|-------------------------------------------------------------------------------------|
| 1    | 75132 | 5/32"  |                                                                                     |
|      | 74984 | 3/16"  |                                                                                     |
|      | 75133 | 7/32"  |                                                                                     |
|      | 74985 | 1/4"   |                                                                                     |
|      | 74986 | 5/16"  |                                                                                     |
|      | 74987 | 3/8"   |  |
|      | 75136 | 25/64" |                                                                                     |
|      | 74988 | 7/16"  |                                                                                     |
|      | 75138 | 15/32" |                                                                                     |
|      | 74989 | 1/2"   |                                                                                     |

12 PCS.

| COD.         | PCS. |   |
|--------------|------|---|
| <b>79466</b> | 12   | C |

| PCS. | COD.  | PCS. |                                                                                       |
|------|-------|------|---------------------------------------------------------------------------------------|
| 1    | 75038 | TT7  |                                                                                       |
|      | 75039 | TT8  |                                                                                       |
|      | 75040 | TT9  |                                                                                       |
|      | 75041 | TT10 |                                                                                       |
|      | 75042 | TT15 |                                                                                       |
|      | 75043 | TT20 |                                                                                       |
|      | 75044 | TT25 |  |
|      | 75045 | TT27 |                                                                                       |
|      | 75046 | TT30 |                                                                                       |
|      | 75047 | TT40 |                                                                                       |
|      | 75048 | TT45 |                                                                                       |
|      | 75049 | TT50 |                                                                                       |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>79467</b> | 12   | C |

| PCS. | COD.  | PCS.   |                                                                                       |
|------|-------|--------|---------------------------------------------------------------------------------------|
| 1    | 74698 | 4 mm   |                                                                                       |
|      | 74699 | 5 mm   |                                                                                       |
|      | 74700 | 5,5 mm |                                                                                       |
|      | 74701 | 6 mm   |                                                                                       |
|      | 74702 | 7 mm   |                                                                                       |
|      | 74703 | 8 mm   |                                                                                       |
|      | 74704 | 9 mm   |  |
|      | 74705 | 10 mm  |                                                                                       |
|      | 74706 | 11 mm  |                                                                                       |
|      | 74707 | 12 mm  |                                                                                       |
|      | 74708 | 13 mm  |                                                                                       |
|      | 74709 | 14 mm  |                                                                                       |



### 13 PCS.

| COD.         | PCS. |   |
|--------------|------|---|
| <b>79465</b> | 13   | C |

| PCS. | COD.  | PCS. |  |
|------|-------|------|--|
| 1    | 76638 | T6   |  |
|      | 76639 | T7   |  |
|      | 76640 | T8   |  |
|      | 76641 | T9   |  |
|      | 76642 | T10  |  |
|      | 76643 | T15  |  |
|      | 76644 | T20  |  |
|      | 76645 | T25  |  |
|      | 76646 | T27  |  |
|      | 76647 | T30  |  |
|      | 76648 | T40  |  |
|      | 76649 | T45  |  |
|      | 76650 | T50  |  |

### SET



| COD.         | PCS. | Dimensiones / Dimensions / Dimensions |     |
|--------------|------|---------------------------------------|-----|
| <b>76678</b> | 5    | 320 x 190 x 280                       | 780 |

1000V | IEC 60900

| PCS. | COD.  | PCS. | Descripción / Description / Description                                                   |                  |
|------|-------|------|-------------------------------------------------------------------------------------------|------------------|
| 1    | 76607 |      | Alicate universal Mastercut Titacrom® Bimat / Mastercut Titacrom® Bimat combination plier | 180 mm           |
|      | 76621 |      | Destornillador electricista Mastertork / Electrician Mastertork screwdriver               | 3 x 100 mm       |
|      | 76629 |      | Destornillador Phillips® Mastertork / Phillips® Mastertork screwdriver                    | PH-1, 5 x 100 mm |
|      | 62493 |      | Alicate para terminales aislados / For insulated terminals plier                          | 200 mm           |
|      | 66074 |      | Buscapolos digital / Digital voltage tester                                               | 160 mm           |

| COD.         | PCS. | Dimensiones / Dimensions / Dimensions |     |
|--------------|------|---------------------------------------|-----|
| <b>76679</b> | 4    | 320 x 190 x 280                       | 700 |

1000V | IEC 60900

| PCS. | COD.  | PCS. | Descripción / Description / Description                                                   |                  |
|------|-------|------|-------------------------------------------------------------------------------------------|------------------|
| 1    | 76607 |      | Alicate universal Mastercut Titacrom® Bimat / Mastercut Titacrom® Bimat combination plier | 180 mm           |
|      | 76621 |      | Destornillador electricista Mastertork / Electrician Mastertork screwdriver               | 3 x 100 mm       |
|      | 76622 |      | Destornillador Phillips® Mastertork / Phillips® Mastertork screwdriver                    | PH-1, 5 x 100 mm |
|      | 76629 |      | Destornillador Phillips® Mastertork / Phillips® Mastertork screwdriver                    | PH-1, 5 x 100 mm |

### ROTORK

#### 4 PCS.



| COD.         | PCS. |   |
|--------------|------|---|
| <b>76988</b> | 4    | A |
| <b>76989</b> |      | B |

| PCS. | COD.  | PCS. |  |
|------|-------|------|--|
| 1    | 76655 | PH0  |  |
|      | 76656 | PH1  |  |
|      | 76657 | PH2  |  |
|      | 76658 | PH3  |  |

| COD.         | PCS. |   |
|--------------|------|---|
| <b>76985</b> | 4    | A |
| <b>76986</b> |      | B |

| PCS. | COD.  | PCS. |  |
|------|-------|------|--|
| 1    | 76659 | PZ0  |  |
|      | 76660 | PZ1  |  |
|      | 76661 | PZ2  |  |
|      | 76662 | PZ3  |  |

#### 5 PCS.



| COD.         | PCS. |   |
|--------------|------|---|
| <b>76961</b> | 5    | A |
| <b>76962</b> |      | B |

| PCS. | COD.  | PCS. |  |
|------|-------|------|--|
| 1    | 76655 | PH0  |  |
|      | 76656 | PH1  |  |
|      | 76657 | PH2  |  |
|      | 76658 | PH3  |  |
|      | 76735 | PH4  |  |
|      |       |      |  |

6 PCS.



| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76973</b> | 6    |   |   |
| <b>76974</b> |      |   |   |

| PCS. | COD. PCS. |              |   |   |
|------|-----------|--------------|---|---|
| 1    | 76730     | 2,5 x 60 mm  |   |   |
|      | 76651     | 3 x 100 mm   |   |   |
|      | 76652     | 4 x 125 mm   | ⓘ | ☐ |
|      | 76653     | 5,5 x 150 mm |   |   |
|      | 76654     | 6,5 x 150 mm |   |   |
|      | 76732     | 8 x 175 mm   |   |   |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76955</b> | 6    |   |   |
| <b>76956</b> |      |   |   |

| PCS. | COD. PCS. |              |   |   |
|------|-----------|--------------|---|---|
| 1    | 76651     | 3 x 100 mm   |   |   |
|      | 76652     | 4 x 125 mm   |   |   |
|      | 76653     | 5,5 x 150 mm | ⓘ | ☐ |
|      | 76654     | 6,5 x 150 mm |   |   |
|      | 76732     | 8 x 175 mm   |   |   |
|      | 76733     | 10 x 200 mm  |   |   |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76967</b> | 6    |   |   |
| <b>76968</b> |      |   |   |

| PCS. | COD. PCS. |              |   |   |
|------|-----------|--------------|---|---|
| 1    | 76730     | 2,5 x 60 mm  |   |   |
|      | 76651     | 3 x 100 mm   | ⓘ | ☐ |
|      | 76652     | 4 x 125 mm   |   |   |
|      | 76653     | 5,5 x 150 mm |   |   |
|      | 76656     | PH1          | ⊕ |   |
|      | 76657     | PH2          |   |   |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76943</b> | 6    |   |   |
| <b>76944</b> |      |   |   |

| PCS. | COD. PCS. |              |   |   |
|------|-----------|--------------|---|---|
| 1    | 76651     | 3 x 100 mm   |   |   |
|      | 76652     | 4 x 125 mm   | ⓘ | ☐ |
|      | 76653     | 5,5 x 150 mm |   |   |
|      | 76655     | PH0          |   |   |
|      | 76656     | PH1          | ⊕ |   |
|      | 76657     | PH2          |   |   |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76952</b> | 6    |   |   |
| <b>76953</b> |      |   |   |

| PCS. | COD. PCS. |              |   |   |
|------|-----------|--------------|---|---|
| 1    | 76651     | 3 x 100 mm   |   |   |
|      | 76652     | 4 x 125 mm   | ⓘ | ☐ |
|      | 76653     | 5,5 x 150 mm |   |   |
|      | 76659     | PZ0          |   |   |
|      | 76660     | PZ1          | ⊕ |   |
|      | 76661     | PZ2          |   |   |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76976</b> | 6    |   |   |
| <b>76977</b> |      |   |   |

| PCS. | COD. PCS. |              |   |   |
|------|-----------|--------------|---|---|
| 1    | 76651     | 3 x 100 mm   |   |   |
|      | 76652     | 4 x 125 mm   | ⓘ | ☐ |
|      | 76654     | 6,5 x 150 mm |   |   |
|      | 76656     | PH1          |   |   |
|      | 76657     | PH2          | ⊕ |   |
|      | 76658     | PH3          |   |   |

| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76970</b> | 6    |   |   |
| <b>76971</b> |      |   |   |

| PCS. | COD. PCS. |              |   |   |
|------|-----------|--------------|---|---|
| 1    | 76651     | 3 x 100 mm   |   |   |
|      | 76652     | 4 x 125 mm   | ⓘ | ☐ |
|      | 76654     | 6,5 x 150 mm |   |   |
|      | 76659     | PZ0          | ⊕ |   |
|      | 76660     | PZ1          |   |   |
|      | 76661     | PZ2          | ⊕ |   |


8 PCS.




| COD.         | PCS. | A | B |
|--------------|------|---|---|
| <b>76684</b> | 8    |   |   |
| <b>76685</b> |      |   |   |

| PCS. | COD. PCS. |              |   |   |
|------|-----------|--------------|---|---|
| 1    | 76651     | 3 x 100 mm   |   |   |
|      | 76652     | 4 x 125 mm   |   |   |
|      | 76653     | 5,5 x 150 mm | ⓘ | ☐ |
|      | 76654     | 6,5 x 150 mm |   |   |
|      | 76656     | PH1          |   |   |
|      | 76657     | PH2          | ⊕ |   |
|      | 76660     | PZ1          |   |   |
|      | 76661     | PZ2          | ⊕ |   |


| COD.         | PCS. |  |   |
|--------------|------|--|---|
| <b>76964</b> | 8    |  | A |
| <b>76965</b> |      |  | B |

| PCS. | COD.  | PCS.         |   |                                                                                   |
|------|-------|--------------|---|-----------------------------------------------------------------------------------|
| 1    | 76730 | 2,5 x 60 mm  |   |                                                                                   |
|      | 76652 | 4 x 125 mm   | ⓘ |  |
|      | 76653 | 5,5 x 150 mm |   |                                                                                   |
|      | 76654 | 6,5 x 150 mm |   |                                                                                   |
|      | 76655 | PH0          |   |                                                                                   |
|      | 76656 | PH1          | ⊕ |                                                                                   |
|      | 76657 | PH2          |   |                                                                                   |
|      | 76658 | PH3          |   |                                                                                   |


| COD.         | PCS. |  |   |
|--------------|------|--|---|
| <b>76982</b> | 8    |  | A |
| <b>76983</b> |      |  | B |

| PCS. | COD.  | PCS.         |   |                                                                                   |
|------|-------|--------------|---|-----------------------------------------------------------------------------------|
| 1    | 76730 | 2,5 x 60 mm  |   |                                                                                   |
|      | 76651 | 3 x 100 mm   | ⓘ |  |
|      | 76652 | 4 x 125 mm   |   |                                                                                   |
|      | 76654 | 6,5 x 150 mm |   |                                                                                   |
|      | 76655 | PH0          |   |                                                                                   |
|      | 76656 | PH1          | ⊕ |                                                                                   |
|      | 76657 | PH2          |   |                                                                                   |
|      | 76658 | PH3          |   |                                                                                   |

| COD.         | PCS. |  |   |
|--------------|------|--|---|
| <b>76949</b> | 8    |  | A |
| <b>76950</b> |      |  | B |

| PCS. | COD.  | PCS.         |   |                                                                                     |
|------|-------|--------------|---|-------------------------------------------------------------------------------------|
| 1    | 76730 | 2,5 x 60 mm  |   |                                                                                     |
|      | 76731 | 3 x 60 mm    |   |                                                                                     |
|      | 76652 | 4 x 125 mm   | ⓘ |  |
|      | 76653 | 5,5 x 150 mm |   |                                                                                     |
|      | 76654 | 6,5 x 150 mm |   |                                                                                     |
|      | 76659 | PZ0          |   |                                                                                     |
|      | 76660 | PZ1          | ⊕ |                                                                                     |
|      | 76661 | PZ2          |   |                                                                                     |

| COD.         | PCS. |  |   |
|--------------|------|--|---|
| <b>76979</b> | 8    |  | A |
| <b>76980</b> |      |  | B |

| PCS. | COD.  | PCS.         |   |                                                                                     |
|------|-------|--------------|---|-------------------------------------------------------------------------------------|
| 1    | 76651 | 3 x 100 mm   |   |                                                                                     |
|      | 76652 | 4 x 125 mm   | ⓘ |  |
|      | 76653 | 5,5 x 150 mm |   |                                                                                     |
|      | 76654 | 6,5 x 150 mm |   |                                                                                     |
|      | 76655 | PH0          |   |                                                                                     |
|      | 76656 | PH1          | ⊕ |                                                                                     |
|      | 76657 | PH2          |   |                                                                                     |
|      | 76658 | PH3          |   |                                                                                     |

| COD.         | PCS. |  |   |
|--------------|------|--|---|
| <b>76958</b> | 8    |  | A |
| <b>76959</b> |      |  | B |

| PCS. | COD.  | PCS. |   |  |
|------|-------|------|---|--|
| 1    | 76655 | PH0  |   |  |
|      | 76656 | PH1  | ⊕ |  |
|      | 76657 | PH2  |   |  |
|      | 76658 | PH3  |   |  |
|      | 76659 | PZ0  |   |  |
|      | 76660 | PZ1  | ⊕ |  |
|      | 76661 | PZ2  |   |  |
|      | 76662 | PZ3  |   |  |

**MICROTRONIC**

**7 PCS.**



| COD.         | PCS. |
|--------------|------|
| <b>76083</b> | 7    |

| PCS. | COD.  | PCS.        |   |  |
|------|-------|-------------|---|--|
| 1    | 75156 | 1,5 x 40 mm |   |  |
|      | 75157 | 1,8 x 60 mm |   |  |
|      | 75158 | 2 x 60 mm   |   |  |
|      | 75159 | 2,5 x 75 mm | ⓘ |  |
|      | 75201 | 3 x 75 mm   |   |  |
|      | 75202 | PH00        |   |  |
|      | 75203 | PH0         | ⊕ |  |

## JUEGOS ELECTRICIDAD / ELECTRICIAN SETS / SETS ÉLECTRICIENS / WERKZEUGSÄTZE FÜR ELEKTRIZITÄT / KIT ELETTRICISTI / JOGOS ÉTRICIDADE / НАБОР ЭЛЕКТРИКА

■ 5 PCS.

■ MM



| COD.         | PCS.                                    |                                         | Medidas en / Sizes in / Mesures en |       |
|--------------|-----------------------------------------|-----------------------------------------|------------------------------------|-------|
| <b>79060</b> | 5                                       | 51033                                   | mm                                 | 1,2   |
| PCS.         | Composición / Composition / Composition | Descripción / Description / Description |                                    |       |
| 4            | 76583, 76594, 76603, 76595              | Alicates / Pliers                       |                                    |       |
| 1            | 73004                                   | Tenaza de canal / Box joint             |                                    | 1000V |

■ 16 PCS.

■ MM



| COD.         | PCS. |       | Medidas en / Sizes in / Mesures en |     |
|--------------|------|-------|------------------------------------|-----|
| <b>76690</b> |      | -     |                                    | 2,0 |
| <b>76691</b> | 16   | 51013 | mm                                 | 4,0 |

■ 10 PCS.

■ MM



| COD.         | PCS.                                    |                                                           | Medidas en / Sizes in / Mesures en |       |
|--------------|-----------------------------------------|-----------------------------------------------------------|------------------------------------|-------|
| <b>79061</b> | 10                                      | 51033                                                     | mm                                 | 3,0   |
| PCS.         | Composición / Composition / Composition | Descripción / Description / Description                   |                                    |       |
| 4            | 76583, 76594, 76603, 76595              | Alicates / Pliers                                         |                                    |       |
| 3            | 76621, 76623, 76626                     | Destornilladores electricistas / Electrician screwdrivers |                                    |       |
| 2            | 76634, 76635                            | Destornilladores Pozidriv® / Pozidriv® screwdrivers       |                                    | 1000V |
| 1            | 73004                                   | Tenaza de canal / Box joint                               |                                    |       |

■ 17 PCS.

■ MM



| COD.         | PCS. |       | Medidas en / Sizes in / Mesures en |     |
|--------------|------|-------|------------------------------------|-----|
| <b>79063</b> | 17   | 51033 | mm                                 | 3,6 |



| COD.         | PCS.                                    |                                                           | Medidas en / Sizes in / Mesures en |       |
|--------------|-----------------------------------------|-----------------------------------------------------------|------------------------------------|-------|
| <b>79062</b> | 10                                      | 51033                                                     | mm                                 | 2,5   |
| PCS.         | Composición / Composition / Composition | Descripción / Description / Description                   |                                    |       |
| 4            | 76583, 76603, 76590, 76599              | Alicates / Pliers                                         |                                    | 1000V |
| 1            | 66073                                   | Buscapolos / Voltage tester                               |                                    | -     |
| 4            | 76621, 76622, 76623, 76625              | Destornilladores electricistas / Electrician screwdrivers |                                    |       |
| 1            | 76629                                   | Destornilladores Phillips® / Phillips® screwdrivers       |                                    | 1000V |

| PCS. | Composición / Composition / Composition  | Descripción / Description / Description                   |  |       |
|------|------------------------------------------|-----------------------------------------------------------|--|-------|
| 6    | 76584, 76599, 76592, 76603, 76589, 76590 | Alicates / Pliers                                         |  | 1000V |
| 1    | 66073                                    | Buscapolos / Voltage tester                               |  | -     |
| 6    | 76620, 76621, 76623, 76625, 76626, 76627 | Destornilladores electricistas / Electrician screwdrivers |  |       |
| 2    | 76629, 76630                             | Destornilladores Phillips® / Phillips® screwdrivers       |  | 1000V |
|      | 73035, 73036                             | Cuchillos / Knives                                        |  |       |

### 26 PCS.

MM



| COD.         | PCS. |       | Medidas en / Sizes in / Mesures en |     |
|--------------|------|-------|------------------------------------|-----|
| <b>79064</b> | 26   | 51033 | mm                                 | 5,0 |

| PCS. | Composición / Composition / Composition         | Descripción / Description / Description                   |       |
|------|-------------------------------------------------|-----------------------------------------------------------|-------|
| 7    | 76583, 76603, 76592, 76594, 76595, 76590, 76589 | Alicates / Pliers                                         |       |
| 2    | 73156, 73158                                    | Llaves hexagonales / Hexagonal keys                       |       |
| 5    | 76621, 76622, 76623, 76625, 76626               | Destornilladores electricistas / Electrician screwdrivers |       |
| 2    | 76629, 76630                                    | Destornilladores Phillips® / Phillips® screwdrivers       | 1000V |
| 2    | 76634, 76635                                    | Destornilladores Pozidriv® / Pozidriv® screwdrivers       |       |
| 4    | 74700, 74701, 74702, 74703                      | Destornilladores de vaso / Socket screwdriver             |       |
| 2    | 73035, 73036                                    | Cuchillos / Knives                                        |       |
| 1    | 73008                                           | Cortacables / Cable cutters                               |       |
|      | 66073                                           | Buscapolos / Voltage tester                               | -     |

### 37 PCS.

MM



| COD.         | PCS. |       | Medidas en / Sizes in / Mesures en |     |
|--------------|------|-------|------------------------------------|-----|
| <b>79066</b> | 37   | 51054 | mm                                 | 9,0 |

| PCS. | Composición / Composition / Composition                       | Descripción / Description / Description                   |              |
|------|---------------------------------------------------------------|-----------------------------------------------------------|--------------|
| 4    | 76583, 76603, 76592, 76599                                    | Alicates / Pliers                                         |              |
| 1    | 73008                                                         | Cortacables / Cable cutters                               |              |
| 6    | 73064, 73067, 73068, 73071, 73073, 73076                      | Llaves fijas una boca / Single ended open jaw spanners    | 1000V        |
|      | 73122, 73125, 73126, 73129, 73131, 73134                      | Llaves de estrella / Ring wrenches                        |              |
| 1    | 73683                                                         | Carraca / Ratchet                                         |              |
| 2    | 73446, 73445                                                  | Alargadera / Extension                                    | 3/8" - 1000V |
| 1    | 73448                                                         | Mango en T / T Handle                                     | 1000V        |
| 9    | 74962, 74963, 74964, 74965, 74966, 74969, 74971, 74974, 74976 | Vasos / Sockets                                           | 1/2" - 1000V |
| 2    | 73035, 73036                                                  | Cuchillos / Knives                                        |              |
| 1    | 73040                                                         | Pinza de plástico / Plastic tweezers                      | 1000V        |
| 4    | 76621, 76622, 76623, 76625                                    | Destornilladores electricistas / Electrician screwdrivers |              |

### 27 PCS.

INCH



| COD.         | PCS. |       | Medidas en / Sizes in / Mesures en |     |
|--------------|------|-------|------------------------------------|-----|
| <b>79065</b> | 27   | 51054 | inch                               | 8,0 |

| PCS. | Composición / Composition / Composition                | Descripción / Description / Description                    |              |
|------|--------------------------------------------------------|------------------------------------------------------------|--------------|
| 3    | 76583, 76597, 76592                                    | Alicates / Pliers                                          |              |
|      | 76621, 76623, 76625                                    | Destornilladores electricistas / Electrician screwdrivers  | 1000V        |
| 2    | 76629, 76630                                           | Destornilladores Phillips® / Phillips® screwdrivers        |              |
| 1    | 73685                                                  | Carraca / Ratchet                                          | -            |
| 2    | 73280, 73281                                           | Alargadera / Extension                                     |              |
| 8    | 75162, 75163, 75164, 75165, 75167, 75168, 75169, 75170 | Vasos / Sockets                                            | 3/8" - 1000V |
|      | 73349, 73350, 73351, 73352, 73353, 73354, 73355, 73356 | Llaves de estrella acodada una boca / Offset ring wrenches | 1000V        |



■ 52 PCS.

■ MM



| COD.         | PCS. |       | Medidas en / Sizes in / Mesures en |     |
|--------------|------|-------|------------------------------------|-----|
| <b>76688</b> |      | -     |                                    | 3,0 |
| <b>76689</b> | 37   | 51010 | mm                                 | 7,0 |

| COD.         | PCS. |       | Medidas en / Sizes in / Mesures en |     |
|--------------|------|-------|------------------------------------|-----|
| <b>76686</b> |      | -     |                                    | 6,0 |
| <b>76687</b> | 52   | 51011 | mm                                 | 31  |

| PCS. | Composición / Composition / Composition  | Descripción / Description / Description                                                                |       |
|------|------------------------------------------|--------------------------------------------------------------------------------------------------------|-------|
| 5    | 76584, 76591, 76593, 76595, 76603        | Alicates / Pliers                                                                                      |       |
|      | 73008                                    | Tenaza cortacables / Cable cutters                                                                     |       |
| 1    | 73040                                    | Pinzas / Tweezers                                                                                      | 1000V |
|      | 73035                                    | Cuchillos / Knives                                                                                     |       |
|      | 73005                                    | Tenazas de canal / Box joint pincers                                                                   |       |
| 5    | 73064, 73065, 73067, 73068, 73070        | Llaves fijas una boca / Single ended open jaw spanners                                                 |       |
| 1    | 69534                                    | Tijera electricista / Electrician's scissors                                                           | -     |
|      | 51257                                    | Buscapolos / Voltage tester                                                                            |       |
| 5    | 76621, 76622, 76624, 76625, 76626        | Destornilladores electricistas / Electrician screwdrivers                                              | 1000V |
| 3    | 76629, 76630, 76631                      | Destornilladores Phillips® / Phillips® screwdrivers                                                    |       |
|      | 63254                                    | Soldador de estaño / Tin soldering iron                                                                |       |
| 1    | 63256                                    | Succionador con boquilla antiestática para soldadura / Desoldering pump with anti-static rubber nozzle | -     |
| 6    | 73232, 73233, 73234, 73236, 73238, 73239 | Vasos / Sockets                                                                                        | 1000V |
| 1    | 73245                                    | Alargadera / Extension                                                                                 |       |
|      | 73246                                    | Carraca / Ratchet                                                                                      |       |




| PCS. | Composición / Composition / Composition                | Descripción / Description / Description                                                                |       |
|------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------|
| 8    | 76584, 76590, 76592, 76591, 76593, 76594, 76595, 76603 | Alicates / Pliers                                                                                      |       |
| 1    | 73008                                                  | Tenaza cortacables / Cable cutters                                                                     |       |
| 2    | 73040, 73041                                           | Pinzas / Tweezers                                                                                      |       |
|      | 73035, 73036                                           | Cuchillos / Knives                                                                                     |       |
| 1    | 73011                                                  | Cortacables de carraca / Ratchet electrician cable cutter                                              | 1000V |
|      | 73005                                                  | Tenazas de canal / Box joint pincers                                                                   |       |
|      | 76552                                                  | Llave ajustable / Adjustable wrench                                                                    |       |
| 8    | 73064, 73065, 73066, 73067, 73068, 73071, 73073, 73076 | Llaves fijas una boca / Single ended open jaw spanners                                                 |       |
|      | 69534                                                  | Tijera electricista / Electrician's scissors                                                           |       |
| 1    | 62494                                                  | Alicate para terminales / Terminals plier                                                              | -     |
|      | 51257                                                  | Buscapolos / Voltage tester                                                                            |       |
| 6    | 76621, 76622, 76624, 76625, 76626, 76627               | Destornilladores electricistas / Electrician screwdrivers                                              | 1000V |
| 5    | 76628, 76629, 76630, 76631, 76632                      | Destornilladores Phillips® / Phillips® screwdrivers                                                    |       |
|      | 63254                                                  | Soldador de estaño / Tin soldering iron                                                                |       |
| 1    | 63256                                                  | Succionador con boquilla antiestática para soldadura / Desoldering pump with anti-static rubber nozzle | -     |
|      | 65587                                                  | Espejo articulado / Joint telescopic mirror                                                            |       |
| 6    | 73232, 73233, 73234, 73236, 73238, 73239               | Vasos / Sockets                                                                                        |       |
| 1    | 73245                                                  | Alargadera / Extension                                                                                 | 1000V |
|      | 73687                                                  | Carraca / Ratchet                                                                                      |       |
| 3    | 73251, 73252, 73253                                    | Boquillas hexagonales / Hexagonal sockets                                                              |       |

**SET DE MANTENIMIENTO DE COCHE ELÉCTRICO / HÍBRIDO / HYBRID / ELECTRIC VEHICLE MAINTENANCE SET / SET DE MAINTENANCE POUR VOITURE ÉLECTRIQUE / HIBRYDE / WARTUNGSSATZ FÜR ELEKTRO- / HYBRIDFAHRZEUGE / SET DI MANUTENZIONE VEICOLO ELETTRICO / IBRIDO / JOGO DE MANUTENÇÃO PARA CARRO ELÉCTRICO / HÍBRIDO / НАБОР ДЛЯ ОБСЛУЖИВАНИЯ АВТОМОБИЛЬНЫХ ЭЛЕКТРОДВИГАТЕЛЕЙ**

■ 23 PCS.

■ MM



| COD.         | PCS.                                     |  | Medidas en / Sizes in / Mesures en                                |  |  |
|--------------|------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>72990</b> | 23                                       | 50994                                                                             | mm                                                                | ●                                                                                   | 5,0                                                                                 |
| PCS.         | Composición / Composition / Composition  |                                                                                   | Descripción / Description / Description                           |                                                                                     |                                                                                     |
| 1            | 73683                                    |                                                                                   | Llave de carraca reversible 1/2" / Reversible ratchet handle 1/2" |                                                                                     |                                                                                     |
| 2            | 73094, 73096                             |                                                                                   | Llaves de estrella acodada / Offset ring wrenches                 |                                                                                     |                                                                                     |
| 6            | 74960, 74962, 74965, 74966, 74969, 74971 |                                                                                   | Llaves de vaso 1/2" / Socket wrenches 1/2"                        |                                                                                     |                                                                                     |
|              | 73455                                    |                                                                                   | Boquilla hexagonal / Hexagonal socket                             |                                                                                     |                                                                                     |
|              | 73446                                    |                                                                                   | Alargadera 1/2" / Extension 1/2"                                  |                                                                                     |                                                                                     |
| 1            | 73004                                    |                                                                                   | Tenaza de canal / Box joint                                       |                                                                                     |                                                                                     |
|              | 76583                                    |                                                                                   | Alicate universal / Combination pliers                            |                                                                                     |                                                                                     |
|              | 76593                                    |                                                                                   | Alicate de telefonista / Long nose pliers                         |                                                                                     |                                                                                     |
| 2            | 76738, 76629                             |                                                                                   | Destornilladores Phillips® / Phillips® screwdrivers               |                                                                                     |                                                                                     |
| 3            | 76621, 76622, 76623                      |                                                                                   | Destornilladores electricistas / Electrician screwdrivers         |                                                                                     |                                                                                     |
| 1            | 73555                                    |                                                                                   | Guantes aislantes / Insulating gloves                             |                                                                                     |                                                                                     |
| 3            | 73287, 73288, 73289                      |                                                                                   | Boquillas de autofijación / Self claping slip-on claps            |                                                                                     |                                                                                     |

**BE SAFE...BE EFFICIENT**

■ 43 PCS.

■ MM



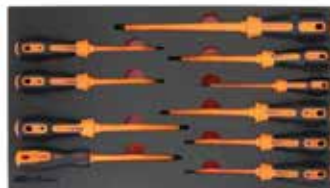
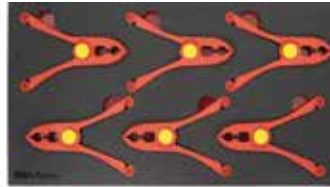
| COD.  | PCS. |       | Medidas en / Sizes in / Mesures en |    |
|-------|------|-------|------------------------------------|----|
| 79365 | 43   | 50996 | mm                                 | 21 |

| PCS. | Composición / Composition / Composition                                     | Descripción / Description / Description                            |
|------|-----------------------------------------------------------------------------|--------------------------------------------------------------------|
| 1    | 73042                                                                       | Cortabridas / Plastic tie cutter                                   |
| 1    | 79058                                                                       | Tijera aislada / Insulating clamps                                 |
| 2    | 76616                                                                       | Alicate de corte diagonal / Electronic pliers                      |
| 2    | 76614, 76612                                                                | Alicate telefonista / Long nose pliers                             |
| 1    | 73249                                                                       | Grapa / Clamp                                                      |
| 3    | 73008                                                                       | Tenaza corta cables / Cable cutters                                |
| 3    | 76651, 76652, 76653                                                         | Destornilladores electricistas / Electrician screwdrivers          |
| 1    | 73040                                                                       | Pinza / Neat tip tweezers                                          |
| 3    | 76659, 76660, 76661                                                         | Destornilladores Pozidriv® / Pozidriv® screwdrivers                |
| 1    | 73041                                                                       | Pinza 45° / Neat tip tweezers 45°                                  |
| 2    | 73287, 73288                                                                | Boquilla de autofijación / Self clamping slip-on claps             |
| 1    | 73035                                                                       | Cuchillo recto / Straight knife                                    |
| 1    | 73036                                                                       | Cuchillo curvo / Curved knife                                      |
| 3    | 73251, 73252, 73253                                                         | Boquilla hexagonal / Hexagonal socket                              |
| 2    | 79894, 79898                                                                | Punta atornilladora con vaso / Socket bit                          |
| 1    | 73285                                                                       | Adaptador / Adapter                                                |
| 11   | 73230, 73231, 73232, 73233, 73234, 73235, 73236, 73237, 73238, 73239, 73240 | Llaves de vaso 1/4" / Socket wrenches 1/4"                         |
| 5    | 75058, 75059, 75060, 75061, 75062                                           | Llaves de vaso 1/4" serie larga / Long series socket wrenches 1/4" |
| 1    | 73256                                                                       | Extension con mango / Extension with handle                        |
| 1    | 79995                                                                       | Llave dinamométrica 3/8" / Torque wrench 3/8"                      |



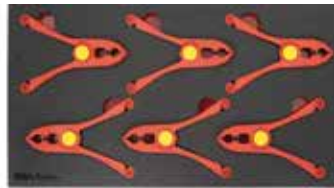
■ 55 PCS

■ MM



| COD.         | PCS.                                            |                                                                       | Medidas en / Sizes in / Mesures en             |    |
|--------------|-------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------|----|
| <b>79086</b> | 55                                              | 58597                                                                 | mm                                             | 21 |
| PCS.         | Composición / Composition / Composition         | Descripción / Description / Description                               |                                                |    |
| 4            | 79799                                           | Mantas aislantes / Insulating blankets                                | 600x460                                        |    |
| 6            | 73249                                           | Grapas / Insulating clamps                                            | 150 mm                                         |    |
|              | 73281                                           | Alargadera 3/8" / Extension 3/8"                                      | 250mm                                          |    |
| 1            | 75204                                           | Alargadera 1/4" / Extension 1/4"                                      | 1/4"                                           |    |
|              | 73285                                           | Adaptador / Adapter                                                   | 3/8" hembra-1/4" macho / 3/8" female-1/4" male |    |
| 7            | 73233, 73234, 73235, 73236, 73237, 73238, 73239 | Llaves de vaso 1/4" / 1/4" Socket wrenches                            | 7,8,9,10,11,12,13 mm                           |    |
| 6            | 74918, 74919, 74920, 74921, 74922, 74923        | Llaves de vaso 3/8" / 3/8" Socket wrenches                            | 10,11,12,13,14,15 mm                           |    |
| 3            | 79495, 79496, 79497                             | Punta con cuadrado guía 1/4" / 1/4" Socket bit                        | T20,T25,T30                                    |    |
|              | 73251, 73252, 73253                             | Boquilla hexagonal 1/4" / 1/4" Hexagonal socket                       | 4,5,6 mm                                       |    |
|              | 76593                                           | Alicate telefonista boca curva / Bent nose plier                      | 160mm                                          |    |
|              | 76595                                           | Alicate corte diagonal / Diagonal cutting plier                       | 160mm                                          |    |
| 1            | 79993                                           | Llave dinamométrica / Torque Wrench                                   | 1000V                                          |    |
|              | 73004                                           | Tenaza de canal 10" / 10" Box joint pincer                            | -                                              |    |
|              | 73008                                           | Tenaza cortacables / Cable cutters                                    | 250mm                                          |    |
|              | 73685                                           | Carraca 3/8" / 3/8" Ratchet                                           | -                                              |    |
| 3            | 74712, 74713, 74714                             | Destornilladores punta hexagonal Allen / Hexagonal Allen screwdrivers | 4,5,6mm                                        |    |
| 1            | 76657                                           | Destornillador Phillips® / Phillips® screwdriver                      | PH2                                            |    |
| 3            | 76626, 76623, 76621                             | Destornilladores electricistas / Electrician screwdrivers             | 8x175, 3x100, 5,5x125                          |    |
|              | 75046, 75044, 75043                             | Destornilladores Tamper torx / Tamper torx screwdrivers               | TT20,TT25,TT30                                 |    |
| 6            | 73288, 73289, 73287                             | Boquillas de autofijación / Self clamping slip-on claps               | Ø10, Ø20, Ø30                                  |    |
| 1            | 51251                                           | Multímetro / Multimeter                                               | -                                              |    |

■ INCH



| COD.         | PCS. |       | Medidas en / Sizes in / Mesures en |   |    |
|--------------|------|-------|------------------------------------|---|----|
| <b>38946</b> | 55   | 58597 | inch                               | ● | 21 |

| PCS. | Composición / Composition / Composition         | Descripción / Description / Description                                  |       |
|------|-------------------------------------------------|--------------------------------------------------------------------------|-------|
| 4    | 79799                                           | Mantas aislantes / Insulating blankets                                   | -     |
| 6    | 73249                                           | Grapas / Clamp                                                           | -     |
| 1    | 73281                                           | Alargadera / Extension                                                   | 3/8"  |
|      | 75204                                           |                                                                          | 1/4"  |
|      | 73285                                           | Adaptador / Adapter                                                      | -     |
| 7    | 73370, 73371, 73372, 73373, 73374, 73375, 73376 | Llaves de vaso / Socket wrenches                                         | 1/4"  |
| 6    | 74942, 74943, 74944, 74945, 74946, 74947        |                                                                          | 3/8"  |
| 3    | 79495, 79496, 79497                             | Punta con cuadrado guía / Socket bit                                     | 1/4"  |
|      | 73251, 73252, 73253                             | Boquilla hexagonal / Hexagonal socket                                    |       |
|      | 76593                                           | Alicate telefonista boca curva / Bent nose plier                         | -     |
| 1    | 76595                                           | Alicate corte diagonal / Diagonal cutting pliers                         | -     |
|      | 79993                                           | Llave dinamoétrica / Torque wrench                                       | 1000V |
|      | 73004                                           | Tenaza de canal / Box joint                                              | 10"   |
|      | 73008                                           | Tenaza cortacables / Cable cutter                                        | -     |
|      | 73685                                           | Carraca / Ratchet                                                        | 3/8"  |
| 3    | 75084, 75131, 75097                             | Destornilladores punta hexagonal Allen / Hexagonal Allen bit screwdriver |       |
| 1    | 76657                                           | Destornillador Phillips® / Phillips® screwdriver                         |       |
| 3    | 75069, 75066, 75064                             | Destornilladores electricistas / Electrician screwdrivers                |       |
|      | 75046, 75044, 75043                             | Destornilladores tamper torx / Tamper torx screwdrivers                  |       |
| 6    | 73288, 73289, 73287                             | Boquillas de autofijación / Self clamping slip-on clamp                  |       |
| 1    | 51251                                           | Multímetro / Multimeter                                                  |       |

34

ESD ANTIESTÁTICA  
ESD ANTISTATIC  
ESD ANTISTATIQUE  
ESD ANTISTATISCH  
ESD ANTISTATICA  
ESD ANTI-ESTÁTICA  
АНТИСТАТИЧЕСКИЙ ИНСТРУМЕНТ ESD





La descarga electrostática (Electro Static Discharge, ESD en inglés) es un fenómeno electrostático que hace que circule una corriente eléctrica repentina y momentáneamente entre dos objetos de distinto potencial eléctrico.

Los productos ESD de EGA Master hacen que se derive la energía electrostática de una forma controlada y segura tanto para el usuario como para los componentes electrónicos, lo que los convierte en el aliado ideal de la electrónica.

Los mangos bimateriales están especialmente diseñados con forma ergonómica, de tacto suave y antideslizante, favoreciendo el buen trabajo de la herramienta.

#### Aviso de seguridad:

No hay que confundir la herramienta ESD con herramienta aislante, por lo que no se deben utilizar nuestros productos ESD en componentes sometidos a tensión eléctrica.

*The Electro Static Discharge, ESD, is an electrostatic phenomenon which makes a sudden and momentary electrical current flow between two different objects with different electrical potential.*

*EGA Master ESD products dispose of the electrostatic energy in a safe and controlled way for the user and electronic components. That makes them the perfect tools for electronic applications.*

*Bimaterial antislippery and ergonomic handles with a soft feel for the best performance.*

#### Safety advice:

*Do not confuse ESD tools with insulated ones. ESD tools should not be used with components subject to electrical voltage.*

La décharge électrostatique (Electro Static Discharge, ESD en anglais) est un phénomène électrostatique qui fait circuler un courant électrique soudain et momentané entre deux objets de potentiel électrique différent.

Les produits ESD EGA Master font que l'énergie électrostatique soit déviée d'une façon contrôlée et sûre, aussi bien pour l'utilisateur que pour les composants électroniques, ce qui les rend des bons amis de l'électronique.

Les manches Bi-matière sont spécialement conçus avec une forme ergonomique, de toucher doux et anti-dérapant, favorisant un bon usage de l'outil.

#### Avis de sécurité:

Il ne faut pas confondre un outil ESD avec un outil isolé, car il ne faut pas utiliser nos produits ESD avec des composants soumis à la tension électrique.



### ALICATES PLIERS PINCES

Los alicates mini ESD EGA Master están fabricados en acero al Cr-V de alta calidad, que proporciona excelentes propiedades mecánicas y una alta precisión en los filos de corte. Los mangos bimateriales aseguran la disipación de la carga estática de manera segura y controlada, además de proporcionar un buen agarre ergonómico.

*EGA Master mini ESD pliers are made in high-quality Cr-V steel, which provides excellent mechanical properties and high accuracy in the cutting edges. The bimaterial handles ensure the vanishing of static charge in a safe and controlled way as well as comfortable ergonomic grip.*

Les MINI pinces ESD EGA Master sont fabriquées en acier Cr-V de haute qualité, qui confère d'excellentes propriétés mécaniques et une haute précision du fil de coupe. Les manches Bimat assurent la dissipation de la charge statique de manière sûre et contrôlée, et confèrent une bonne prise ergonomique.

### DESTORNILLADORES SCREWDRIVERS TOURNEVIS



Los destornilladores mini ESD EGA Master garantizan un trabajo seguro y cómodo, gracias a su mango disipador de carga electrostática, ergonómico, suave y cómodo para el uso. Las varillas están fabricadas en acero al Cr-V de alta calidad. Las puntas ofrecen un mecanizado de alta precisión y gran durabilidad, con un acabado cromado mate.

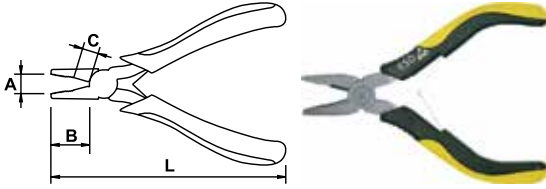
*EGA Master mini ESD screwdrivers guarantee a safe and comfortable work. Electrostatic discharge is facilitated due to their ergonomic and smooth dissipative handles. The blades are made in high-quality Cr-V steel. The tips are machined with high accuracy. The very durable blades are matt chromed.*

Les tournevis Mini ESD d'EGA Master garantissent un travail sûr et commode, grâce à leur manche ergonomique, doux et commode d'usage, éliminateur de charge électrostatique. Les lames sont fabriquées en acier Cr-V de haute qualité. Les pointes sont fraisées avec une grande précision et une grande durabilité, et une finition mâte.



**DESCARGA ELECTROSTÁTICA / ELECTRO STATIC DISCHARGE / DÉCHARGE ÉLECTROSTATIQUE / ELEKTROSTATISCHE ABLADUNG / SCARICA ELETTRICITA STATICA / DESCARGA ELECTROSTÁTICA / РАЗРЯЖАТЕЛЬ СТАТИЧЕСКОГО ЭЛЕКТРИЧЕСТВА**

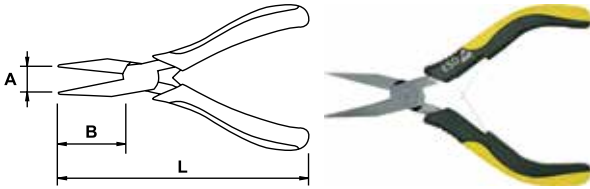
- **ALICATES / PLIERS / PINCES / ZANGEN / PINZE / ALICATES / ЛОСКОГУБЦЫ**
- **UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALE / UNIVERSAIS / КОМБИНИРОВАННЫЕ**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) |   |     |   |    |    |   |
|--------------|--------|--------|--------|--------|---|-----|---|----|----|---|
| <b>64730</b> | 120    | 25     | 22     | 8      | 2 | 1,5 | 1 | 75 | 12 | ● |



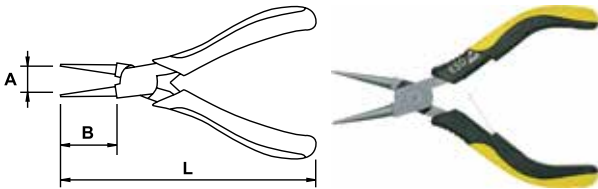
- **BOCA PLANA / FLAT NOSE / BECS PLATS / FLACHZANGEN / BECCHI PIATTI / PONTAS CHATAS / УТКОНОСЫ**



| COD.         | L (mm) | A (mm) | B (mm) |    |    |   |
|--------------|--------|--------|--------|----|----|---|
| <b>64731</b> | 135    | 38     | 36     | 90 | 12 | ● |



- **BOCA REDONDA / ROUND NOSE / BECS RONDOS / RUNDZANGEN / BECCHI TONDI / PONTAS REDONDAS / КРУГЛОГУБЦЫ**



| COD.         | L (mm) | A (mm) | B (mm) |    |    |   |
|--------------|--------|--------|--------|----|----|---|
| <b>64732</b> | 130    | 47     | 27     | 75 | 12 | ● |



Blando / Soft / Tendre  
 20 Kg/mm<sup>2</sup>



Medio / Medium / Moyen  
 75 Kg/mm<sup>2</sup>



Duro / Hard / Dur  
 180 Kg/mm<sup>2</sup>

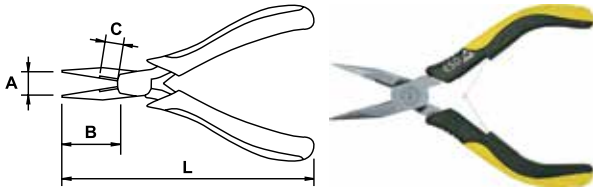


Cuerda piano / Piano wire / Corde de piano  
 230 Kg/mm<sup>2</sup>



**DESCARGA ELECTROSTÁTICA / ELECTROSTATIC DISCHARGE / DÉCHARGE ÉLECTROSTATIQUE / ELEKTROSTATISCHE ABLADUNG / SCARICA ELETTRICITÀ STATICA / DESCARGA ELECTROSTÁTICA / РАЗРЯЖАТЕЛЬ СТАТИЧЕСКОГО ЭЛЕКТРИЧЕСТВА**

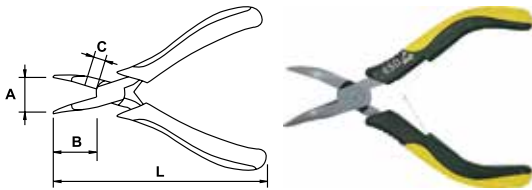
**TELEFONISTA / LONG NOSE / TÉLÉPHONE / TELEFONZANGEN / TELEFONISTI / TELEFONISTA / СУДЛИННЕННЫМИ НОСАМИ**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) |   |     |   |    |    |   |
|--------------|--------|--------|--------|--------|---|-----|---|----|----|---|
| <b>64733</b> | 135    | 33     | 40     | 9      | 2 | 1,5 | 1 | 90 | 12 | ● |



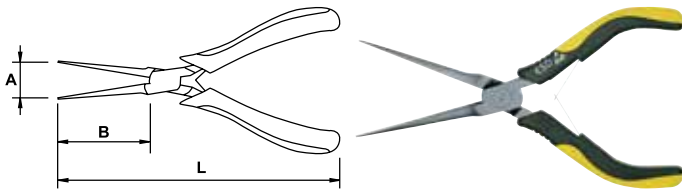
**TELEFONISTA BOCA CURVA / BENT NOSE PLIERS / TÉLÉPHONE BECS COUDÉS / TELEFONZANGEN GEBOGEN / TELEFONISTI BECCHI PIEGATI / TELEFONISTA PONTAS CURVAS / C ИЗОГНУТЫМИ НОСАМИ**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) |   |     |   |    |    |   |
|--------------|--------|--------|--------|--------|---|-----|---|----|----|---|
| <b>64734</b> | 135    | 31     | 36     | 9      | 2 | 1,5 | 1 | 90 | 12 | ● |



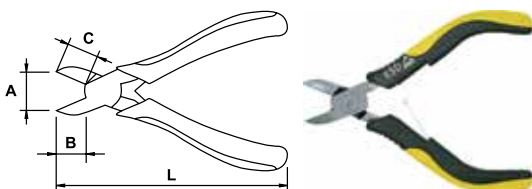
**BOCA AGUJA / LONG NEEDLE NOSE / BECS LONGS DEMI-RONDS / FLACHZANGE MIT LANGEM MAUL / BECCHI TONDI AFFUSOLATI / PONTAS AGULHA / УДЛИНЕННЫЕ ТОНКИЕ**



| COD.         | L (mm) | A (mm) | B (mm) |    |    |   |
|--------------|--------|--------|--------|----|----|---|
| <b>64735</b> | 155    | 70     | 47     | 85 | 10 | ● |



**CORTE DIAGONAL / DIAGONAL CUTTING PLIERS / COUPANTES DIAGONALES / SEITENSCHNEIDER / TAGLIO LATERALE / CORTE DIAGONAL / УДЛИНЕННЫЕ ТОНКИЕ**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) |     |     |     |    |    |   |
|--------------|--------|--------|--------|--------|-----|-----|-----|----|----|---|
| <b>64736</b> | 120    | 18     | 14     | 13     | 1,6 | 1,2 | 0,5 | 75 | 12 | ● |



Blando / Soft / Tendre  
20 Kg/mm<sup>2</sup>

Medio / Medium / Moyen  
75 Kg/mm<sup>2</sup>

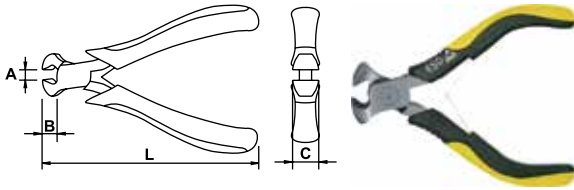
Duro / Hard / Dur  
180 Kg/mm<sup>2</sup>

Cuerda piano / Piano wire / Corde de piano  
230 Kg/mm<sup>2</sup>



**DESCARGA ELECTROSTÁTICA / ELECTRO STATIC DISCHARGE / DÉCHARGE ÉLECTROSTATIQUE / ELEKTROSTATISCHE ABLADUNG / SCARICA ELETTRICITÀ STATICA / DESCARGA ELECTROSTÁTICA / РАЗРЯЖАТЕЛЬ СТАТИЧЕСКОГО ЭЛЕКТРИЧЕСТВА**

**CORTE FRONTAL / END CUTTING NIPPER / COUPANTES DEVANT / VORSCHNEIDER / TAGLIO FRONTALE / CORTE FRONTAL / КЛЕЩИ**



| COD.         | L (mm) | A (mm) | B (mm) | C (mm) |   |   |     |    |    |   |
|--------------|--------|--------|--------|--------|---|---|-----|----|----|---|
| <b>64737</b> | 110    | 10     | 9      | 18     | 2 | 1 | 0,5 | 90 | 12 | ● |



**PULSERA ANTIESTÁTICA / ANTI-STATIC WRIST STRAP / BRACELET ANTI STATIQUE / ANTISTATISCHES ERDUNGS-ARM BAND / POLSIERA ANTISTATICA / PULSEIRA ANTI-ESTÁTICA / БРАСЛЕТ АНТИСТАТИК**

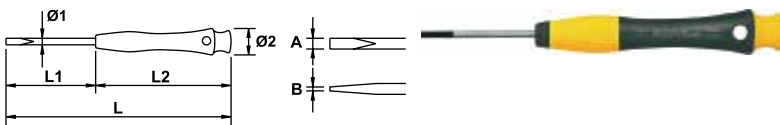
| COD.         |     |    |   |
|--------------|-----|----|---|
| <b>64767</b> | 8ft | 35 | 6 |



**DESTORNILLADORES / SCREWDRIVERS / TOURNEVIS / SCHRAUBENZIEHER / CACCIAVITI / CHAVES DE FENDA / ОТВЕРТКИ**

**ELECTRICISTA / ELECTRICIAN / ELECTRICIEN / ELEKTRIK / PER ELETTRICISTI / ELETRICISTA / ЭЛЕКТРИЧЕСКАЯ**

**MM**



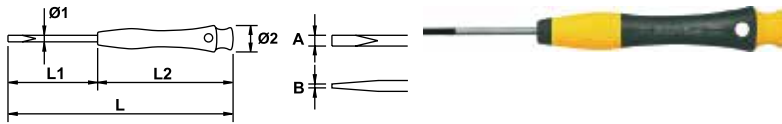
| COD.         | A (mm) | B (mm) | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |    |   |
|--------------|--------|--------|----------|----------|--------|---------|---------|----|----|---|
| <b>64740</b> | 1      | 0,2    |          |          |        |         |         | 14 |    |   |
| <b>64741</b> | 1,5    | 0,3    | 2        |          | 140    | 40      |         | 14 |    |   |
| <b>64742</b> | 2      | 0,4    |          |          |        |         |         | 16 |    |   |
| <b>64743</b> | 2,5    | 0,4    | 2,5      | 16       |        |         | 100     | 17 | 10 |   |
| <b>64744</b> | 3      | 0,5    | 3        |          | 160    | 60      |         | 19 |    |   |
| <b>64745</b> | 3,5    | 0,6    | 3,5      |          |        |         |         | 21 |    | ● |
| <b>64746</b> | 4      | 0,7    | 4        |          |        |         |         | 24 |    |   |





**DESCARGA ELECTROSTÁTICA / ELECTROSTATIC DISCHARGE / DÉCHARGE ÉLECTROSTATIQUE / ELEKTROSTATISCHE ABLADUNG / SCARICA ELETTRICITÀ STATICA / DESCARGA ELECTROSTÁTICA / РАЗРЯЖАТЕЛЬ СТАТИЧЕСКОГО ЭЛЕКТРИЧЕСТВА**

**INCH**



| COD.         | A (inch) | B (inch) | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (inch) | L2 (mm) |    |    |   |
|--------------|----------|----------|----------|----------|--------|-----------|---------|----|----|---|
| <b>55460</b> |          |          |          |          | 140    |           |         | 14 |    | - |
| <b>55461</b> | 5/64     | 1/16     | 2        |          |        |           |         | 16 |    |   |
| <b>55464</b> | 9/64     | 9/64     | 3,5      | 16       | 160    | 2         | 100     | 21 | 10 |   |
| <b>55465</b> | 5/32     | 5/32     | 4        |          |        |           |         | 24 |    | • |



**PHILLIPS®\***



| COD.         |      | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |    |   |
|--------------|------|----------|----------|--------|---------|---------|----|----|---|
| <b>64747</b> | PH00 | 2,5      |          |        |         |         | 17 |    | - |
| <b>64748</b> | PH0  | 3,0      | 16       | 160    | 60      | 100     | 19 | 10 |   |
| <b>64749</b> | PH1  | 4,0      |          |        |         |         | 24 |    | • |



**POZIDRIV®\***



| COD.         |     | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |    |   |
|--------------|-----|----------|----------|--------|---------|---------|----|----|---|
| <b>64753</b> | PZ0 | 3,0      |          |        |         |         | 19 |    |   |
| <b>64754</b> | PZ1 | 4,0      | 16       | 160    | 60      | 100     | 24 | 10 | • |



**TORX®\***



| COD.         |    | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |    |
|--------------|----|----------|----------|--------|---------|---------|----|----|
| <b>64756</b> | T4 |          |          |        |         |         | 14 |    |
| <b>64757</b> | T5 | 2,5      | 16       | 140    | 40      | 100     | 14 | 10 |
| <b>64758</b> | T6 |          |          |        |         |         |    |    |



\*Para tornillos PHILLIPS® (Marca registrada por Phillips Screw Company) / \*For screws PHILLIPS® (Phillips Screw Company registered trademark) / \*Pour vis PHILLIPS® (Marque enregistrée par Phillips Screw Company)  
 \*Para tornillos POZIDRIV® (Marca registrada por European Ind. Serv. Ltd.) / \*For screws POZIDRIV® (European Ind. Serv. Ltd. registered trademark) / \*Pour vis POZIDRIV® (Marque enregistrée par European Ind. Serv. Ltd.)  
 \*Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)





**DESCARGA ELECTROSTÁTICA / ELECTROSTATIC DISCHARGE / DÉCHARGE ÉLECTROSTATIQUE / ELEKTROSTATISCHE ABLADUNG / SCARICA ELETTRICITÀ STATICA / DESCARGA ELECTROSTÁTICA / РАЗРЯЖАТЕЛЬ СТАТИЧЕСКОГО ЭЛЕКТРИЧЕСТВА**

**TAMPER TORX**



| COD.         |       | Ø 1 (mm) | Ø 2 (mm) | L (mm) | L1 (mm) | L2 (mm) |    |    |   |
|--------------|-------|----------|----------|--------|---------|---------|----|----|---|
| <b>64762</b> | TT-7  | 2,5      |          | 140    | 40      |         | 15 |    | - |
| <b>64763</b> | TT-8  |          | 16       |        |         | 100     |    | 10 |   |
| <b>64764</b> | TT-9  | 3,0      |          | 160    | 60      |         | 19 |    | • |
| <b>64765</b> | TT-10 |          |          |        |         |         |    |    |   |



**JUEGO DE ALICATES Y DESTORNILLADORES ESD / SET OF ESD PLIERS AND SCREWDRIVERS / SET DE PINCES ET TOURNEVIS ESD / SET ESD SCHRAUBENDREHER U-ESD ZANGEN / SET PINZE E CACCIAVITI ESD / JOGO DE ALICATES E CHAVES ESD / НАБОР ПЛОСКОГУБЦЕВ И ОТВЕРТОК АНТИСТАТИЧЕСКИХ ESD**

**8 PCS.**

| COD.         | PCS. |
|--------------|------|
| <b>68898</b> | 8    |



| PCS. | COD. PCS. | Descripción / Description / Description                 |           |   |
|------|-----------|---------------------------------------------------------|-----------|---|
|      | 64730     | Alicate universal ESD / ESD Combination plier           | 115 mm    |   |
|      | 64736     | Alicate corte diagonal ESD / ESD Diagonal cutting plier |           | - |
|      | 64733     | Alicate telefonista ESD / ESD Long nose plier           | 135 mm    |   |
| 1    | 64742     |                                                         | 2 x 60 mm |   |
|      | 64744     |                                                         | 3 x 60 mm |   |
|      | 64747     | Destornilladores ESD / ESD Screwdrivers                 | PH00      |   |
|      | 64748     |                                                         | PH0       |   |
|      | 64749     |                                                         | PH1       |   |



**JUEGO DE DESTORNILLADORES ESD / SET OF ESD SCREWDRIVERS / SET DE TOURNEVIS ESD / SET ESD SCHRAUBENDREHER / SET CACCIAVITI ESD / JOGO DE CHAVES ESD / НАБОР ОТВЕРТОК АНТИСТАТИЧЕСКИХ ESD**

**6 PCS.**

| COD.         | PCS. |
|--------------|------|
| <b>68899</b> | 6    |



| PCS. | COD. PCS. |           |  |
|------|-----------|-----------|--|
| 1    | 64747     | PH00      |  |
|      | 64748     | PH0       |  |
|      | 64742     | 2 x 60 mm |  |
|      | 64744     | 3 x 60 mm |  |
|      | 64753     | PZ0       |  |
|      | 64754     | PZ1       |  |



# PROYECTOS PRINCIPALES

## *MAIN PROJECTS*

# PRINCIPAUX PROJETS



**TAQA ROSA**

**COMPAÑÍA ELÉCTRICA / POWER COMPANY /  
COMPAGNIE ÉLECTRIQUE**

ABU DHABI



35

HERRAMIENTAS ANTI-CAÍDA ANTIDROP  
ANTIDROP TOOLS  
OUTILS ANTI-CHUTE ANTIDROP  
ANTIDROP WERKZEUG-SICHERUNG  
UTENSILI ANTI-CADUTA ANTIDROP  
FERRAMENTAS ANTI-QUEDA ANTIDROP  
ПРОТИВОУДАРНЫЕ ИНСТРУМЕНТЫ

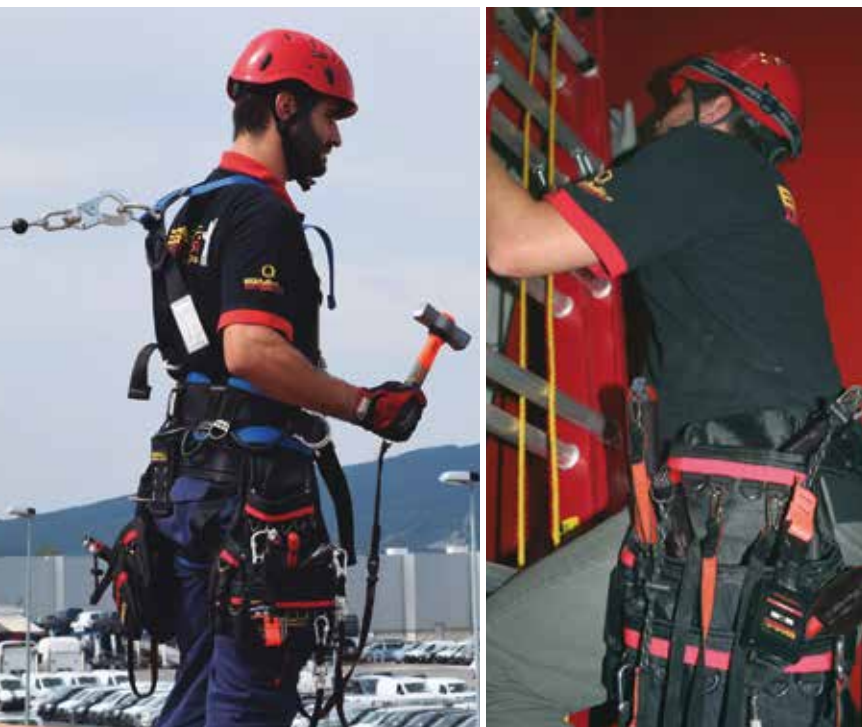


ANTIDROP

**EGA Master fabrica una amplia y completa gama de herramientas y soluciones anti-caída ANTIDROP, que han sido diseñadas para controlar y prevenir la caída de objetos cuando se trabaja en alturas.**

Estos productos han sido desarrollados para ofrecer un uso cómodo, productivo y eficiente, garantizando al mismo tiempo la seguridad de los trabajadores y equipos contra la caída de objetos. Son ideales para muchas actividades de fabricación, construcción, instalación y mantenimiento tanto en tierra como mar adentro.

Son muchas las aplicaciones que requieren de trabajos en alturas: torres de perforación, turbinas eólicas, líneas eléctricas, grúas, edificios, andamiajes, puentes, torres de telecomunicaciones, mantenimiento de aviones, minería, espeleología...



**EGA Master manufactures a whole range of ANTI-DROP products and solutions that have been designed to control and prevent object dropping when working at height.**

*These products have been designed to allow a comfortable, productive and efficient use of tools while assuring workers' and equipment safety against object dropping. Ideal for many manufacturing, construction, installation and maintenance activities, both onshore and offshore. Some applications: oil rigs, wind turbines, power lines, cranes, buildings, scaffolding, bridges, telecom towers, airplane maintenance, speleology, mining...*

**EGA Master fabrique une gamme vaste et complète d'outils avec des solutions anti-chute ANTIDROP, conçue pour contrôler et prévenir la chute d'objets lors de travaux en hauteurs.**

Ces produits ont été développés pour obtenir une utilisation pratique, productive et efficace, garantissant en même temps, la sécurité des travailleurs et des équipes, contre la chute d'objets. Ils sont idéals pour diverses activités de fabrication, de construction, d'installation et de maintenance terrestre et maritime.

Les situations ayant besoin du système anti-chute sont nombreuses: les tours de forage, les éoliennes, les lignes électriques, les grues, les bâtiments, les échafaudages, les ponts, les tours de télécommunications, la maintenance des avions, les mines, la spéléologie...

**La gama se compone de**  
*The range consists of*  
**La gamme se compose de**

**HERRAMIENTAS ANTI-CAÍDA ANTIDROP  
CON SISTEMA TERMORETRÁCTIL**  
*ANTIDROP TOOLS WITH HEAT SHRINK SYSTEM*  
**OUTILS ANTI-CHUTE ANTIDROP AVEC  
SYSTÈME THERMORÉTRACTABLE**

Las herramientas anti-caída ANTIDROP de EGA Master han sido cuidadosamente diseñadas no sólo para evitar caídas accidentales, sino para garantizar la seguridad completa. Todas las herramientas están equipadas con sistema termoretráctil mucho más eficaz y seguro que otros sistemas del mercado, como, por ejemplo, la sujeción de herramientas directamente mediante cordones y nudos que pueden fallar por errores humanos.

Por supuesto, todas las herramientas mantienen las características originales y reconocidas de las herramientas industriales de EGA Master: seguridad, resistencia, durabilidad, eficiencia, ergonomía y un uso cómodo.

*EGA Master ANTIDROP tools have been carefully designed not only to avoid accidental dropping, but also to ensure maximum safety. All tools are equipped with heat shrink system which offer superior safety compared to other systems, such as directly holding tools with a knot.*

*Of course, all tools keep the original and well-known EGA Master industrial tools features: safety, resistance, durability, efficient and comfortable use.*

Les outils anti-chute ANTIDROP d'EGA Master ont été soigneusement conçus, non seulement pour éviter des chutes accidentelles, mais aussi pour garantir la complète sécurité. Tous les outils sont dotés par un système thermorétractable, système beaucoup plus efficace et sûr que ceux existants sur le marché, comme par exemple la rétention directe d'outils par l'intermédiaire de cordons et de nœuds qui peuvent faire l'objet de défaillance par erreur humaine.

Il est évident que tous les outils gardent leurs caractéristiques originales et reconnues, des outils industriels d'EGA Master: sécurité, résistance, durabilité, efficacité, ergonomie et une utilisation confortable.



**CORDÓN ANTI-CAÍDA**  
**LANYARDS**  
**CORDON ANTI-CHUTE**

Diseñados para ofrecer la máxima seguridad, así como una óptima libertad de movimiento, los distintos sistemas proporcionan todas las soluciones necesarias para un uso cómodo y seguro en las alturas y al mismo tiempo aseguran la mejor absorción frente a impactos.

*Designed for maximum safety, as well as optimum working freedom, the various systems provide all required solutions for a comfortable and safe use on heights, while assuring best shock absorption.*

Conçus pour offrir la sécurité maximale, ainsi qu'une liberté de mouvement optimale, les différents systèmes offrent toutes les solutions nécessaires pour une utilisation pratique et sûre en hauteurs et en même temps assurent une meilleure absorption lors d'impacts.



**CINTURONES DE SEGURIDAD**  
**SAFETY BELTS**  
**CEINTURES DE SÉCURITÉ**

Diseñados para adaptarse a la perfección al cuerpo del trabajador, facilitan los movimientos del usuario, ofreciendo muchos y variados puntos de fijación para las herramientas. Los ganchos y bolsillos del cinturón sujetan las herramientas mientras el trabajador está en movimiento.

*Designed to fit the worker's body, enable user freedom and provide maximum tool fixing points. Internal hooks safely retain tools while the operator is climbing or moving location.*

Conçus pour s'adapter à la perfection au corps du travailleur, elles facilitent les mouvements de l'utilisateur en offrant une grande variété de points de fixation pour les outils. Les crochets et les poches de la ceinture supportent les outils pendant que le travailleur est en action.

**SISTEMA DE CONTROL DE HERRAMIENTAS**  
**TOOL CONTROL SYSTEM**  
**SYSTÈME DE CONTRÔLE D'OUTILS**

El control de herramientas es esencial en muchas aplicaciones, sobre todo en aquellos casos en los que las herramientas "perdidas" u olvidadas aumentan los riesgos y disminuyen la seguridad, como es el caso de reparaciones de aviones, mantenimiento de turbinas eólicas, construcciones en las alturas...

EGA Master ofrece como solución un exclusivo y personalizado sistema de control de herramientas. Simplemente hay que elegir las herramientas requeridas y EGA Master diseñará y fabricará el set necesario, totalmente personalizado, con bandejas bicolor que se adaptan perfectamente a las herramientas y permiten visualizar a golpe de vista la herramienta faltante. Para más información, dirigirse al capítulo "Sistemas de herramientas".

*Tool control is essential in many applications, specially on those where "forgotten" tools create high safety risks: airplane repair, wind turbine maintenance, construction at height...*

*EGA Master offers exclusive and totally customized tool control system solutions. Just decide which tools you need, and EGA Master will design and manufacture customized the set you require, with Bi-colored foam trays that perfectly fit tools and visually warn of any missing element. For more info, please check "Tool Control System" chapter.*

Le contrôle des outils est essentiel dans beaucoup d'applications, et surtout dans les cas où les outils "perdus" ou oubliés augmentent les risques et diminuent la sécurité, comme dans le cas de réparations d'avion, la maintenance d'éoliennes, les constructions en hauteurs...

EGA Master offre comme solution, un système exclusif et personnalisé de contrôle d'outils. Il suffit de sélectionner les outils désirés et EGA Master concevra et fabriquera le Set nécessaire, totalement personnalisé avec des plateaux bi-couleurs qui s'adaptent parfaitement aux outils et permettent de visualiser d'un simple coup d'œil l'outil manquant. Pour plus d'informations, se diriger au Chapitre "Systèmes de Contrôle d'Outils".





**SOLUCIONES ANTI-CAÍDA PARA HERRAMIENTA AISLADA 1.000V, ESD, ANTI-CHISPA O NO MAGNÉTICA**  
**ANTIDROP SOLUTIONS FOR 1000V INSULATED, ESD, NON-SPARKING OR NON-MAGNETIC TOOLS**  
**SOLUTIONS ANTI-CHUTE POUR DES OUTILS ISOLÉS 1000 VOLTS, ESD, ANTI-DÉFLAGRANTS ET AMAGNÉTIQUES**

Si usted requiere de herramienta de este tipo con el sistema anti-caída ANTIDROP incorporado, debido a sus propiedades especiales, por favor, póngase en contacto con EGA Master para asesorarle y ofrecerle la mejor solución posible.

*If you require such tools in ANTIDROP execution, due to their special properties, please do contact us to advice the best possible solution.*

Si vous avez besoin d'outils de ce type avec le système anti-chute ANTIDROP incorporé, et en raison de leurs propriétés spécifiques, merci de vous mettre en contact avec EGA Master pour une étude technique et vous offrir la solution la plus adaptée.

**EGA Master es miembro de DROPS, iniciativa global de colaboración intersectorial para el establecimiento de normas y soluciones para la prevención de caída de objetos, representada por las empresas más avanzadas y concienciadas en seguridad de los distintos sectores: Petróleo, Gas, Minería, Construcción, Fabricación, Seguridad, etc.**



Como miembro de dicha iniciativa, EGA Master diseña, ensaya, homologa, certifica y fabrica todas sus herramientas y sujeciones ANTIDROP (prevención frente a caídas) de acuerdo siempre a las últimas recomendaciones DROPS vigentes, asegurando los más altos estándares de seguridad frente a la caída de objetos. Todo ello en combinación con la calidad industrial de primer nivel de sus herramientas, garantiza que las soluciones ANTIDROP de EGA Master cumplan con las más altas exigencias de eficiencia, productividad, comodidad y seguridad.

*EGA Master is a member of DROPS, a global initiative for inter-sector collaboration for the establishment of standards and solutions to prevent falling objects, represented by companies that are the most advanced and safety aware across multiple sectors: such as Oil, Gas, Mining, Construction, Manufacturing, Safety, etc.*

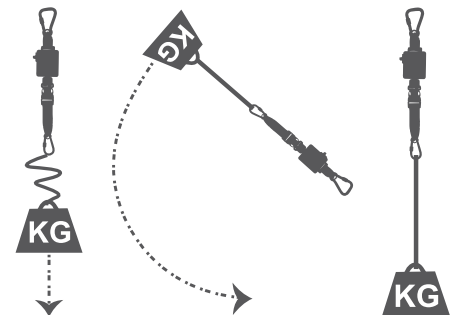
*As a member of this initiative, EGA Master has designed, manufactured, tested, approved and certified all its ANTIDROP (prevention against falls) tools and accessories according to the latest standards of security and recommendations provided by DROPS,*

*ensuring the highest standards of security against falling objects. All this, combined with industrial class quality tools, ensures that EGA Master ANTIDROP solutions meet the highest standards of efficiency, productivity, comfort and safety.*

**EGA Master est membre de DROPS, initiative globale de collaboration intersectorielle pour l'établissement de normes et de solutions pour la prévention de chute d'objets, représentée par les entreprises les plus avancées et conscientes de l'importance de la sécurité dans les secteurs suivants: Pétrole, Gaz, industrie minière, Construction, Fabrication, Sécurité, etc.**

En tant que membre de telle initiative, EGA Master conçoit, essaie, homologue, certifie et fabrique tous ses outils et fixations ANTIDROP (prévention par rapport à la chute) toujours en accords aux dernières recommandations DROPS en vigueur, assurant les plus hauts standards de sécurité par rapport à la chute d'objets. Tout cela, combiné avec la qualité industrielle de premier niveau de ses outils, garantit que les solutions ANTIDROP d'EGA Master accomplissent les plus hautes exigences d'efficacité, de productivité, de commodité et sécurité.

|                                                              |                                                                          |                                                                            |
|--------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|
| <b>CAÍDA LIBRE</b><br><b>FREE FALL</b><br><b>CHUTE LIBRE</b> | <b>CAÍDA PENDULAR</b><br><b>PENDULAR TEST</b><br><b>CHUTE PENDULAIRE</b> | <b>CARGA ESTÁTICA</b><br><b>STATIC LOAD TEST</b><br><b>CHARGE STATIQUE</b> |
|--------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|



Se une el lanyard a un punto de anclaje y al otro extremo se le aplica la carga. La carga se eleva y se suelta verticalmente, 5 veces.

*The lanyard is attached to an anchor point and the weight is applied to the other end. Then the weight is elevated and dropped vertically, five times.*

Le lanyard se joint à un point d'ancrage et la charge s'applique sur l'autre extrémité. La charge s'élève et se lâche verticalement, 5 fois.

Se une el lanyard a un punto de anclaje y al otro extremo se le aplica la carga. Se eleva la carga por encima del punto de anclaje y se suelta, 5 veces.

*The lanyard is attached to an anchor point and the weight is applied to the other end. Then the weight is elevated above the anchorage point and dropped, five times.*

Le lanyard se joint à un point d'ancrage et la charge s'applique sur l'autre extrémité. La charge s'élève au-dessus du point d'ancrage et se lâche, 5 fois.

Se une el lanyard a un punto de anclaje y en el otro extremo se aplica la carga durante 10 minutos.

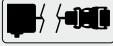





*The lanyard is attached to an anchor point and the weight is applied to the other end during 10 minutes.*

Le lanyard se joint à un point d'ancrage et sur l'autre extrémité la charge s'applique pendant 10 minutes.

**ACO**

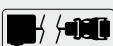





■ **CORDÓN ANTICAÍDA / LANYARDS / CORDON ANTI-CHUTE / SICHERUNGS-LEINE / CORDINO ANTI-CADUTA / SUPORTE DE SEGURANÇA / СТРОПЫ**

■ **CORDÓN ANTICAÍDA RETRACTIL / RETRACTABLE LANYARD / CORDON ANTI-CHUTE RÉTRACTABLE / SICHERUNGS-LEINE, SELBST AUFROLLEND / CORDINO ANTI-CADUTA RETRATTILE / SUPORTE DE SEGURANÇA RETRÁCTIL / ВЫДВИГАЮЩИЕСЯ СТРОПЫ**

| COD.         | L (mm) | L max. (m) |  | CAP. (kg) |  |  |  |  |  |
|--------------|--------|------------|-----------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>66078</b> | 440    | 1,5        | 1                                                                                 | 0,9       | 0,9                                                                               | 3                                                                                 | 30                                                                                | 160                                                                                | 1                                                                                   |



■ **CORDÓN ANTICAÍDA RETRACTIL CON MOSQUETÓN / RETRACTABLE LANYARD WITH CARABINER / CORDON ANTI-CHUTE RÉTRACTABLE AVEC MOUSQUETON / SICHERUNGS-LEINE, SELBST AUFROLLEND, KARABINERHAKEN / CORDINO ANTI-CADUTA RETRATTILE CON MOSCHETTONE / SUPORTE DE SEGURANÇA RETRÁCTIL COM MOSQUETÃO / ВЫДВИГАЮЩИЕСЯ СТРОПЫ С КАРАБИНОМ**

| COD.         | L (mm) | L max. (m) |  | CAP. (kg) |  |  |  |  |  |
|--------------|--------|------------|-----------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>66062</b> | 400    | 1,4        | 1                                                                                 | 0,9       | 0,9                                                                               | 3                                                                                 | 30                                                                                | 190                                                                                | 1                                                                                   |



■ **ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

| COD.         | L (mm) |  |  |  |
|--------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>66248</b> | 200    | 1                                                                                 | 145                                                                               | 1                                                                                  |



| COD.         | L (mm) |  |  |
|--------------|--------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>66063</b> | 240    | 15                                                                                 | 1                                                                                  |







| COD.         | L (mm) |  |  |
|--------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>66064</b> | 200    | 45                                                                                  | 1                                                                                   |



| COD.         | L (mm) |  |  |
|--------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>66068</b> | 270    | 20                                                                                  | 1                                                                                   |



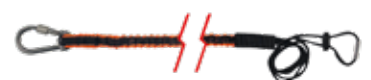
■ **CORDÓN ANTICAÍDA CON MOSQUETÓN Y ABSORCIÓN DE ENERGÍA / SHOCK ABSORBING CARABINER LANYARD / CORDON ANTICHUTE AVEC MOUSQUETON ET ABSORPTION D'ÉNERGIE / STOSSDÄMPFENDES KARABINER LANYARD / CORDINO ANTICADUTA CON MOSCHETTONE E ASSORBITORE ENERGIA / CORDA ANTI-QUEDA COM MOSQUETÃO E ABSORÇÃO DE ENERGIA / СТРАХОВОЧНЫЙ ТРОС С КАРАБИНОМ, ЭНЕРГОПОГЛОЩАЮЩИЙ**

| COD.         | L (mm) | L max. (m) | Resistant UV /<br>UV Resistant / UV<br>Resistant | CAP. (kg) |  |  |  |  |  |
|--------------|--------|------------|--------------------------------------------------|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>66143</b> | 700    | 1,2        | ●                                                | 3         | 3                                                                                   | 5                                                                                   | 35                                                                                  | 140                                                                                 | 1                                                                                     |



■ **CORDÓN ANTICAÍDA DE NUDO Y ABSORCIÓN DE ENERGÍA / SHOCK ABSORBING LOOP LANYARD / CORDON ANTICHUTE DE NOEUD ET ABSORPTION D'ÉNERGIE / SHOCK ABSORBIERENDES SCHLEIFE LANYARD / CORDINO ANTICADUTA CON NODO E ASSORBITORE ENERGIA / CORDA ANTI-QUEDA DE NÓ E ABSORÇÃO DE ENERGIA / СТРАХОВОЧНЫЙ ТРОС С ПЕТЛЕВЫМ ФИКСАТОРОМ, ЭНЕРГОПОГЛОЩАЮЩИЙ**






| COD.         | L (mm) | L max. (m) | Resistant UV /<br>UV Resistant / UV<br>Resistant | CAP. (kg) |  |  |  |  |  |
|--------------|--------|------------|--------------------------------------------------|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>66118</b> | 980    | 1,5        | ●                                                | 3         | 3                                                                                   | 5                                                                                   | 35                                                                                  | 85                                                                                  | 1                                                                                     |



• Para más información de dimensiones y características del producto, consultar en el capítulo correspondiente del catálogo general o en [www.egamaster.com](http://www.egamaster.com). / For more details about features and dimensions of the products, check the corresponding chapter of the General Catalogue or [www.egamaster.com](http://www.egamaster.com). / Pour plus d'informations sur les dimensions et les caractéristiques du produit, consulter le chapitre correspondant de notre catalogue général ou sur [www.egamaster.com](http://www.egamaster.com).

**ACO**

**CORDÓN ANTICAÍDA CON MOSQUETÓN Y QUITAVUELTAS / CARABINER LANYARD WITH SWIVEL / CORDON ANTI-CHUTE AVEC MOUSQUETON ET ANTI-ENROULEMENT / KARABINER LEINE MIT GELENK / CORDONE ANTI-CADUTA CON MOSCHETTONE E PERNO GIREVOLE / SUPORTE ANTI-QUEDA COM MOSQUETÃO E CONECTOR GIRATÓRIO / СТРОП ПРОТИВОУДАРНЫЙ ПОВОРОТНЫЙ С КАРАБИНОМ**






| COD.         | L (mm) | L max. (m) | Resistant UV /<br>UV Resistant / UV<br>Resistant | CAP. (kg) |  |  |  |  |  |
|--------------|--------|------------|--------------------------------------------------|-----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>66112</b> | 1000   | 1,7        | ●                                                | 0,9       | 0,9                                                                               | 1                                                                                 | 20                                                                                | 135                                                                               | 1                                                                                   |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Nylon de alta resistencia a los rayos ultravioleta con mosquetones de acero / *UV high resistance nylon and steel carabiners* / Nylon à haute résistance aux rayons ultraviolets avec mousquetons en acier

Elástico / *Elastic* / Élastique

| COD.         | L (mm) | Resistant UV /<br>UV Resistant / UV<br>Resistant | CAP. (kg) |  |  |  |  |  |
|--------------|--------|--------------------------------------------------|-----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>66116</b> | 700    | ●                                                | 3         | 3                                                                                 | 5                                                                                 | 35                                                                                | 125                                                                               | 1                                                                                   |








**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Poliéster resistente a los rayos ultravioleta y nylon de alta resistencia con mosquetones de acero / *UV resistant polyester and high resistance nylon and steel carabiners* / Polyester résistant aux rayons ultraviolets et nylon à haute résistance avec mousquetons en acier

Rígido / *Rigid* / Rigide

**CORDÓN ANTICAÍDA DE NUDO Y QUITAVUELTAS / LOOP LANYARD WITH SWIVEL / CORDON ANTI-CHUTE AVEC NOEUD ET ANTI-ENROULEMENT / SCHLEIFLEINE MIT GELENK / CORDONE ANTI-CADUTA NODO E PERNO GIREVOLE / SUPORTE ANTI-QUEDA COM CORDÃO E CONECTOR GIRATÓRIO / СТРОП ПРОТИВОУДАРНЫЙ ПОВОРОТНЫЙ С ПЕТЛЕЙ**






| COD.         | L (mm) | L max. (m) | Resistant UV /<br>UV Resistant / UV<br>Resistant | CAP. (kg) |  |  |  |  |  |
|--------------|--------|------------|--------------------------------------------------|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>66113</b> | 880    | 1,5        | ●                                                | 0,9       | 0,9                                                                                 | 1                                                                                   | 20                                                                                  | 80                                                                                  | 1                                                                                     |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Nylon de alta resistencia a los rayos ultravioleta con mosquetón de acero / *UV high resistance nylon and steel carabiner* / Nylon à haute résistance aux rayons ultraviolets avec mousquetons en acier

Elástico / *Elastic* / Élastique

| COD.         | L (mm) | Resistant UV /<br>UV Resistant / UV<br>Resistant | CAP. (kg) |  |  |  |  |  |
|--------------|--------|--------------------------------------------------|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>66117</b> | 630    | ●                                                | 3         | 3                                                                                   | 5                                                                                   | 35                                                                                  | 70                                                                                  | 1                                                                                     |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Poliéster resistente a los rayos ultravioleta y nylon de alta resistencia con mosquetones de acero / *UV resistant polyester and high resistance nylon and steel carabiners* / Polyester résistant aux rayons ultraviolets et nylon à haute résistance avec mousquetons en acier

Rígido / *Rigid* / Rigide

**CORDÓN ANTICAÍDA CON CUERDA ESCALADA CON MOSQUETÓN / CLIMBING ROPE CARABINER LANYARD / CORDON ANTI-CHUTE AVEC CORDE D'ESCALADE AVEC MOUSQUETON / KLETTERSEIL KARABINER SCHLÜSSELBAND / CORDONE ANTICADUTA A CORDA PER ARRAMPICATA CON MOSCHETTONE / CORDA ANTI-QUEDA COM CORDA DE ESCALADA E MOSQUETÃO / СТРАХОВОЧНЫЙ ТРОС С КАРАБИНОМ**

| COD.         | L (mm) | L max. (m) | Resistant UV /<br>UV Resistant / UV<br>Resistant | CAP. (kg) |  |  |  |  |  |
|--------------|--------|------------|--------------------------------------------------|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>66105</b> | 500    | 500        | -                                                | 10        | 10                                                                                  | 15                                                                                  | 100                                                                                 | 350                                                                                 | 1                                                                                     |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cuerda de escalada Terylene® con mosquetones de acero / *Terylene® climbing rope and steel carabiners* / Corde d'escalade Térylène® avec mousquetons en acier

Rígido / *Rigid* / Rigide

**CINTURÓN PORTAHERRAMIENTAS / TOOL BELT / CEINTURE PORTE - OUTILS / WERKZEUGGÜRTEL / CINTURA PORTAUTENSILI / CINTURAO PORTA FERRAMENTAS / ИНСТРУМЕНТАЛЬНЫЙ ПОЯС**


| COD.         | L (inch) |  |  |  |  | Anillas / Rings /<br>Anneaux |  |
|--------------|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|
| <b>50997</b> | 32-44    | 15                                                                                  | 10                                                                                  | 3                                                                                   | 4                                                                                   | 35                           | 21                                                                                    |





**ACO**

■ ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ

| COD.  |  |  | Anillas / Rings / Anneaux |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------|
| 50998 | 10                                                                                | 3                                                                                 | 1                         |
| 50999 |                                                                                   |                                                                                   | 2                         |





■ BOLSA 14 BOLSILLOS / 14 POCKETS NYLON BAG / TROUSSE 14 POCHEs / NYLON TASCHE MIT 14 FÄCHER / BORSA CON 14 TASCHE / BOLSA 14 BOLSOS / НЕЙЛОНОВАЯ СУМКА (14 ОТДЕЛЕНИЙ)

| COD.  |  |  |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 50934 | 14                                                                                | 275                                                                               |



■ BOLSA 7 BOLSILLOS / 7 POCKETS NYLON BAG / TROUSSE 7 POCHEs / NYLON TASCHE MIT 7 FÄCHER / BORSA CON 7 TASCHE / BOLSA 7 BOLSOS / НЕЙЛОНОВАЯ СУМКА (7 ОТДЕЛЕНИЙ)

| COD.  |  |  |
|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 50935 | 7                                                                                   | 245                                                                                 |




■ ACCESORIO PARA MARTILLO / ACCESSORY FOR HAMMER / ACCESSOIRE POUR MARTEAU / ZUBEHÖR F/HAMMER / ACCESSORIO PER MARTELLO / ACESSÓRIO PARA MARTELO / ПОЯСНОЙ КАРМАН ДЛЯ МОЛОТКА

| COD.  |  |
|-------|-------------------------------------------------------------------------------------|
| 50932 | 92                                                                                  |



■ CINTO / BELT / CEINTURE / RIEM / CINTURONE / CINTO / ПОЯС

| COD.  | L (mm) |  |
|-------|--------|-------------------------------------------------------------------------------------|
| 50933 | 135    | 260                                                                                 |



• Para más información de dimensiones y características del producto, consultar en el capítulo correspondiente del catálogo general o en [www.egamaster.com](http://www.egamaster.com). / For more details about features and dimensions of the products, check the corresponding chapter of the General Catalogue or [www.egamaster.com](http://www.egamaster.com). / Pour plus d'informations sur les dimensions et les caractéristiques du produit, consulter le chapitre correspondant de notre catalogue général ou sur [www.egamaster.com](http://www.egamaster.com).

**ACO**

■ ALICATES / PLIERS / PINCES / ZANGEN / PINZE / ALICATES / ПЛОСКОГУБЦЫ

■ MASTERCUT TITACROM® BIMAT

UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALE /  
 UNIVERSAIS / КОМБИНИРОВАННЫЕ



| COD.     | L (mm) |
|----------|--------|
| AD624957 | 165    |
| AD624967 | 180    |
| AD624797 | 210    |

TITACROM® BIMAT | DIN 5746

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V



| COD.     | L (mm) |
|----------|--------|
| AD624807 | 235    |

TITACROM® BIMAT | DIN 5746

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

TELEFONISTA / LONG NOSE / TÉLÉPHONE / TELEFONZANGEN / TELEFONISTI /  
 TELEFONISTA / СУДЛИННЕННЫМИ НОСАМИ



| COD.     | L (mm) |
|----------|--------|
| AD624987 | 160    |
| AD624997 | 200    |

TITACROM® BIMAT | DIN 5745

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

TELEFONISTA BOCA CURVA / BENT NOSE PLIERS / TÉLÉPHONE BECS COUDÉS /  
 TELEFONZANGEN GEBOGEN / TELEFONISTI BECCHI PIEGATI / TELEFONISTA PONTAS  
 CURVAS / С ИЗОГНУТЫМИ НОСАМИ



| COD.     | L (mm) |
|----------|--------|
| AD625007 | 160    |
| AD625017 | 200    |

TITACROM® BIMAT | DIN 5745

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

CORTE DIAGONAL / DIAGONAL CUTTING PLIERS / COUPANTES DIAGONALES /  
 SEITENSCHNEIDER / TAGLIO LATERALE / CORTE DIAGONAL / БОКОРЕЗЫ



| COD.     | L (mm) |
|----------|--------|
| AD622997 | 160    |
| AD623507 | 190    |

TITACROM® BIMAT | DIN 5749

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

CORTE DIAGONAL REFORZADO / HEAVY DUTY CUTTING NIPPERS / COUPANTES  
 RENFORCÉS / VERSTÄRKTER SEITENSCHNEIDER / TAGLIO LATERALE RINFORZATO /  
 CORTE DIAGONAL REFORÇADO / УСИЛЕННЫЕ БОКОРЕЗЫ



| COD.     | L (mm) |
|----------|--------|
| AD623007 | 180    |
| AD625987 | 200    |

TITACROM® BIMAT | DIN 5749

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

**ACO**

**TITACROM® BIMAT**

UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALE /  
 UNIVERSAIS / КОМБИНИРОВАННЫЕ



| COD.     | L (mm) |
|----------|--------|
| AD623317 | 165    |
| AD623327 | 180    |
| AD623337 | 200    |

TITACROM® BIMAT | DIN 5746

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

BOCA PLANA / FLAT NOSE / BECS PLATS / FLACHZANGEN / BECCHI PIATTI / PONTAS  
 CHATAS / УТКОНОСЫ



| COD.     | L (mm) |
|----------|--------|
| AD623377 | 160    |

TITACROM® BIMAT | DIN 5745

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

BOCA REDONDA / ROUND NOSE / BECS RONDS / RUNDZANGEN / BECCHI TONDI /  
 PONTAS REDONDAS / КРУГЛОГУБЦЫ



| COD.     | L (mm) |
|----------|--------|
| AD623387 | 160    |

TITACROM® BIMAT | DIN 5745

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

TELEFONISTA / LONG NOSE / TÉLÉPHONE / TELEFONZANGEN / TELEFONISTI /  
 TELEFONISTA / СУДЛИННЕННЫМИ НОСАМИ



| COD.     | L (mm) |
|----------|--------|
| AD623397 | 160    |
| AD623407 | 200    |

TITACROM® BIMAT | DIN 5745

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

TELEFONISTA BOCA CURVA / BENT NOSE PLIERS / TÉLÉPHONE BECS COUDÉS /  
 TELEFONZANGEN GEBOGEN / TELEFONISTI BECCHI PIEGATI / TELEFONISTA PONTAS  
 CURVAS / С ИЗОГНУТЫМИ НОСАМИ



| COD.     | L (mm) |
|----------|--------|
| AD623417 | 160    |
| AD623427 | 200    |

TITACROM® BIMAT | DIN 5745

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

CORTE DIAGONAL / DIAGONAL CUTTING PLIERS / COUPANTES DIAGONALES /  
 SEITENSCHNEIDER / TAGLIO LATERALE / CORTE DIAGONAL / БОКОРЕЗЫ



| COD.     | L (mm) |
|----------|--------|
| AD623437 | 160    |
| AD625407 | 190    |

TITACROM® BIMAT | DIN 5749

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

CORTE DIAGONAL REFORZADO / HEAVY DUTY CUTTING NIPPERS / COUPANTES  
 RENFORCÉS / VERSTÄRKTER SEITENSCHNEIDER / TAGLIO LATERALE RINFORZATO /  
 CORTE DIAGONAL REFORÇADO / УСИЛЕННЫЕ БОКОРЕЗЫ



| COD.     | L (mm) |
|----------|--------|
| AD623447 | 180    |
| AD623707 | 200    |

TITACROM® BIMAT | DIN 5749

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

# ACO

**CORTE FRONTAL / END CUTTING NIPPER / COUPANTES DEVANT / VORSCHNEIDER / TAGLIO FRONTALE / CORTE FRONTAL / КЛЕЩИ**



| COD.     | L (mm) |
|----------|--------|
| AD623457 | 160    |

TITACROM® BIMAT | DIN 5748

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

**CORTE FRONTAL ELECTRICISTA / END CUTTING NIPPER (ELECTRICIAN) / COUPANTES DEVANT ELECTRICIEN / ELEKTRIKER VORSCHNEIDER / TAGLIO FRONTALE PER ELETRICISTI / CORTE FRONTAL ELETTRICISTA / КЛЕЩИ (ЭЛЕКТРИЧЕСКИЕ)**



| COD.     | L (mm) |
|----------|--------|
| AD623467 | 160    |
| AD623487 | 200    |

TITACROM® BIMAT | DIN 5748

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

**MINIS PARA ELECTRÓNICA / ELECTRONIC PLIERS / PINCES ELECTRONIQUES / ELEKTRONIK-ZANGEN / PINZE PER ELETTRONICA / ALICATE DE CORTE DIAGONAL TRIANGULAR PARA ELECTRÓNICA / ПЛОСКОГУБЦЫ ДЛЯ ЭЛЕКТРОНИКИ**

TITACROM® BIMAT

**UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALE / UNIVERSAIS / КОМБИНИРОВАННЫЕ**



| COD.     | L (mm) |
|----------|--------|
| AD622417 | 125    |

TITACROM® BIMAT | DIN 9655

**BOCA REDONDA / ROUND NOSE / BECS ROUNDS / RUNDZANGEN / BECCHI TONDI / PONTAS REDONDAS / КРУГЛОГУБЦЫ**



| COD.     | L (mm) |
|----------|--------|
| AD622437 | 130    |

TITACROM® BIMAT | DIN 9655

**PELACABLES / WIRESTRIPPER / PINCES À DÉNUDER / ABISOLIERZANGEN / PINZE SPELAFILI / DECAPADORES / КЛЕЩИ ДЛЯ ЗАЧИСТКИ КОНТАКТОВ**



| COD.     | L (mm) |
|----------|--------|
| AD623497 | 160    |

TITACROM® BIMAT | DIN 5743

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

**CORTE DIAGONAL REFORZADO / HEAVY DUTY CUTTING NIPPERS / COUPANTES RENFORCÉS / VERSTÄRKTER SEITENSCHNEIDER / TAGLIO LATERALE RINFORZATO / CORTE DIAGONAL REFORÇADO / УСИЛЕННЫЕ БОКОРЕЗЫ**



| COD.     | L (mm) |
|----------|--------|
| AD622477 | 115    |

TITACROM® BIMAT | DIN 9654

**ACO**

**ELECTRICIDAD / ELECTRICIAN TOOLS / OUTILLAGE D'ÉLECTRICIEN / WERKZEUGE FÜR ELEKTRIKER / UTENSILI PER ELETTRICISTI / ELECTRICIDADE / ИНСТРУМЕНТ ДЛЯ ЭЛЕКТРИКОВ**

**PARA TERMINALES AISLADOS / FOR INSULATED TERMINALS / POUR TERMINAUX ISOLES / FÜR ISOLIERTE KABELSCHUHE / PER TERMINALI ISOLATI / PARA TERMINAIS ISOLADOS / ДЛЯ ИЗОЛИРОВАННЫХ КОНТАКТОВ**



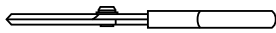
| COD.     | L (mm) |
|----------|--------|
| AD624937 | 200    |

**TENAZAS CORTACABLES / CABLE CUTTERS / COUPE-CABLES / KABELSCHNEIDER / CESCOIE PER CAVI / TESOURAS CORTA CABOS / КАБЕЛЕРЕЗЫ**

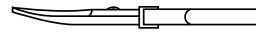


| COD.     | L (mm) |
|----------|--------|
| AD621517 | 250    |

**TIJERA ELECTRICISTA / ELECTRICIAN'S SCISSORS / CISEAUX ÉLECTRICIEN / ELEKTRIKERSCHERE / FORBICI PER ELETTRICISTI / TESOURA ELETTRICISTA / ЭЛЕКТРИЧЕСКИЕ НОЖНИЦЫ**



| COD.     | L (mm) |
|----------|--------|
| AD695347 | 145    |



| COD.     | L (mm) |
|----------|--------|
| AD695357 | 145    |

**PELAMANGUERAS / DISMANTLING TOOL / OUTIL À DÉGAINER / ABMANTELUNGWERKZEUG / SPELACAVI / DECAPADOR LINEAR - HELICOIDAL / ИНСТРУМЕНТ ДЛЯ РАЗБОРКИ**



| COD.     | L (mm) |
|----------|--------|
| AD638757 | 135    |

**TENAZAS / PINCERS / TENAILLES / ZANGE / TENAGLIE / ALICATES / КЛЕЩИ**

**DE CANAL / BOX JOINT / MULTIPRISE ENTREPASSÉE / WASSERPUMPENZANGE / PINZE REGOLABILI / BICO DE PAPAGAIO / КЛЕЩИ ШАРНИРНЫЕ**

**TITACROM® BIMAT**



| COD.     | L (inch) |
|----------|----------|
| AD622977 | 10       |
| AD622987 | 12       |

**TITACROM® BIMAT | DIN 8976**

**AUTO GRIP**



| COD.     | L (inch) |
|----------|----------|
| AD627087 | 12       |

**PICO DE LORO / GROOVE JOINT / MULTIPRISE À CRÉMAILLÈRE / WASSERPUMPENZANGE / PINZE REGOLABILI / BICO DE PAPAGAIO / КЛЕЩИ ЖЕЛОБКОВОГО ТИПА**

**TITACROM®**



| COD.     | L (inch) |
|----------|----------|
| AD621067 | 10       |

**TITACROM® | DIN 8976**

• Para más información de dimensiones y características del producto, consultar en el capítulo correspondiente del catálogo general o en [www.egamaster.com](http://www.egamaster.com). / For more details about features and dimensions of the products, check the corresponding chapter of the General Catalogue or [www.egamaster.com](http://www.egamaster.com). / Pour plus d'informations sur les dimensions et les caractéristiques du produit, consulter le chapitre correspondant de notre catalogue général ou sur [www.egamaster.com](http://www.egamaster.com).

**ACO**

**ALICATE TRENZADOR DE ALAMBRE / WIRE TWIST PLIER / PINCE À FREINER /  
 DRAHTWIRBELZANGE / PINZA TORCIFILO / ALICATE TORCEDOR DE ARAME / КЛЕЩИ  
 ДЛЯ ТРОСОВ**

**REVERSIBLE / REVERSIBLE / RÉVERSIBLE / UMSCHALTBAR / REVERSIBILE /  
 REVERSÍVEL / РЕВЕРСИВНЫЙ**



| COD.     | L (inch) |
|----------|----------|
| AD626277 | 6        |

**ALICATE TIPO FORD / SLIP JOINT PLIER / PINCE MOTORISTE / MECHANIKERZANGE /  
 PINZE PER GASISTI / ALICATE MOTORISTA / СКОЛЬЗЯЩИЕ КЛЕЩИ**

**TITACROM®**



| COD.     | L (inch) |
|----------|----------|
| AD620917 | 8        |

**TITACROM®**

**TENAZA RUSA / TOWER PINCER / PINCE RUSSE / RABITZZANGE / TENAGLIA PER  
 CEMENTISTI / TURQUES RUSSA / КЛЕЩИ**



| COD.     | L (inch) |
|----------|----------|
| AD621267 | 13       |

**LLAVES AJUSTABLES / ADJUSTABLE WRENCHES / CLÉS À MOLETTE / ROLLGABELSCHLÜSSEL / CHIAVI REGOLABILI A RULLINO / CHAVES AJUSTAVELS /  
 РАЗВОДНЫЕ КЛЮЧИ**

**TITACROM®**



| COD.     | L (mm) | L (inch) |
|----------|--------|----------|
| AD611097 | 100    | 4        |
| AD611107 | 150    | 6        |
| AD611117 | 200    | 8        |
| AD611127 | 250    | 10       |
| AD611137 | 300    | 12       |

**TITACROM®**

**MASTERPLUS TITACROM®**



| COD.     | L (inch) |
|----------|----------|
| AD621247 | 10       |

**MASTERPLUS**



| COD.     | L (inch) |
|----------|----------|
| AD621427 | 10       |
| AD621387 | 11       |

**TENAZA DE CARPINTERO / CARPENTER PINCER / PINCE DE MENUISIER /  
 KANTENZANGE / TENAGLIA PER CARPENTIERI / TURQUES DE CARPENTEIRO / КЛЕЩИ  
 ДЛЯ ПЛИТКИ**



| COD.     | L (inch) |
|----------|----------|
| AD624397 | 8        |

**ACO**

■ **LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ**

**LLAVE COMBINADA DE CARRACA MASTERGEAR / MASTERGEAR COMBINATION RATCHET WRENCH / CLÉ MIXTE À CLIQUET MASTERGEAR / RATSCHEN-RINGGABELSCHLÜSSEL / CHIAVE COMBINATA A CRICCO MASTERGEAR / CHAVE DE BOCA E LUNETA COM ROQUETE MASTERGEAR / КЛЮЧ ТРЕЩЕТОЧНЫЙ КОМБИНИРОВАННЫЙ MASTERGEAR**



NI

| COD.     | AF inch |
|----------|---------|
| AD626687 | 7/16    |

**DE VASO DOBLE ARTICULACIÓN / DOUBLE ENDED SWIVEL / CLÉ À TUBE ARTICULÉE / DOPPEL-GELENKSTECKSCHLÜSSEL / CHIAVE A BUSSOLA DOPPA SNODABILE / DE CAIXA ARTICULADAS / КЛЮЧ ДВОЙНАЯ ГОЛОВКА ШАРНИРНАЯ**



| COD.     | AF mm |
|----------|-------|
| AD613017 | 8-9   |
| AD613027 | 10-11 |
| AD613037 | 12-13 |
| AD613047 | 14-15 |
| AD613057 | 16-17 |
| AD613067 | 18-19 |
| AD613087 | 20-22 |
| AD613097 | 21-23 |
| AD613107 | 24-27 |

**PARA RACORES / FLARE NUT / POLYGONALE À TUYAUTER / OFFENER DOPPELRINGSCHLÜSSEL / CHIAVE PER RACCORDI / LUNETAS ABERTAS COM BATENTE / КЛЮЧ ПРОКАЧНОЙ РАЗРЕЗНОЙ**



| COD.     | AF mm |
|----------|-------|
| AD607857 | 8-10  |
| AD607877 | 10-11 |
| AD607887 | 11-13 |
| AD607897 | 12-14 |
| AD607907 | 17-19 |
| AD607917 | 19-22 |
| AD607927 | 22-24 |
| AD607937 | 24-27 |

DIN 3118

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

CR-V

**ESTRELLA PLANA / DOUBLE ENDED FLAT RING SPANNER / POLYGONALE PLATE / DOPPELRINGSCHLÜSSEL / POLIGONALE DIRITTA / LUNETAS DIREITA / ДВОЙНАЯ ИЗГНУТАЯ ПЛОСКАЯ ЗВЕЗДОЧКА**



| COD.     | AF mm |
|----------|-------|
| AD607707 | 6-7   |
| AD607717 | 8-9   |
| AD607727 | 10-11 |
| AD607737 | 12-13 |
| AD607747 | 14-15 |
| AD607757 | 16-17 |
| AD607767 | 17-19 |
| AD607777 | 18-19 |
| AD607787 | 20-22 |
| AD607797 | 21-23 |
| AD607807 | 24-27 |
| AD607817 | 25-28 |
| AD607827 | 30-32 |

DIN 837

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

CR-V

• Para más información de dimensiones y características del producto, consultar en el capítulo correspondiente del catálogo general o en [www.egamaster.com](http://www.egamaster.com). / For more details about features and dimensions of the products, check the corresponding chapter of the General Catalogue or [www.egamaster.com](http://www.egamaster.com). / Pour plus d'informations sur les dimensions et les caractéristiques du produit, consulter le chapitre correspondant de notre catalogue général ou sur [www.egamaster.com](http://www.egamaster.com).

**ACO**

■ **JUEGOS / SETS / ASSORTIMENTS / SÄTZE / ASSORTIMENTI / JOGOS / НАБОРЫ**

| COD.     | mm     | inch     |
|----------|--------|----------|
| AD614997 | 1,5-6  | -        |
| AD615007 | 1,5-10 | -        |
| AD615167 | -      | 1/16-3/8 |

Standard



| COD.     | mm     |
|----------|--------|
| AD615127 | 2,5-10 |

Serie larga / Long serie / Série longue



| COD.     | mm     | inch     |
|----------|--------|----------|
| AD614967 | 1,5-10 | -        |
| AD614957 | -      | 1/16-3/8 |

Bola / Ballpoint / Tête sphérique | Serie larga / Long serie / Série longue



| COD.     | mm    | inch      |        |
|----------|-------|-----------|--------|
| AD653527 | 1,5-8 | -         | -      |
| AD653537 | -     | 5/64-5/16 | -      |
| AD653547 | -     | -         | T9-T40 |



**LLAVE FIJA ACODADA PARA ESTRUCTURA / OFFSET OPEN END STRUCTURAL WRENCH / CLÉ POLYGONALE CONTRE-COUDÉE POUR STRUCTURE MÉTALLIQUE / RINGSCHLÜSSEL GEKRÖPFT MIT DORN / CHIAVE POLIGONALE PER PONTEGGI / CHAVE LUNETAS INCLINADA PARA ESTRUCTURA / КЛЮЧ НАКИДНОЙ ОДНОСТОРОННИЙ ВИЛКОБРАЗНЫЙ СТРОИТЕЛЬНЫЙ**

| COD.     | inch |
|----------|------|
| AD649717 | 7/8  |



**LLAVE DE CARRACA PARA ESTRUCTURA METÁLICA / PODGING WRENCH / CLÉ À CLIQUET POUR STRUCTURE MÉTALLIQUE / STAHLBAUKNARRE / CHIAVE A CRICCO PER COSTRUZIONE / CHAVE DE ROQUETE PARA ESTRUTURA METALICA / ГОЛОВКА С ТРЕЩЕТКОЙ**

■ **MM**

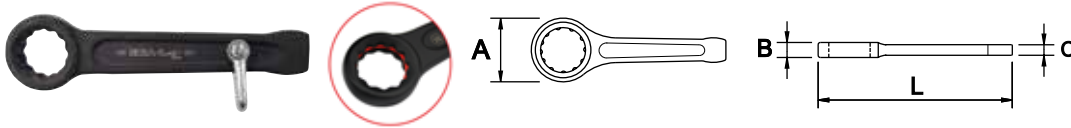
| COD.     | mm    |
|----------|-------|
| AD659167 | 10-13 |
| AD659087 | 13-17 |
| AD650767 | 17-19 |
| AD659177 | 19-21 |
| AD650777 | 19-22 |
| AD650787 | 19-24 |
| AD650797 | 24-30 |
| AD650807 | 27-32 |
| AD650817 | 36-41 |







**LLAVES DE GOLPE SEGURIDAD TOTAL / TOTAL SAFETY SLOGGING WRENCHES / CLÉS À FRAPPER SÉCURITÉ TOTALE / SCHLAGRINGSCHLÜSSEL MIT SICHERUNG / CHIAVI A BATTERE SICUREZZA TOTALE / CHAVES DE LUNETA SÉRIE PANCADA DE SEGURANÇA TOTAL / КОЛЬЦЕВОЙ УДАРНЫЙ КЛЮЧ-ЗВЕЗДОЧКА С ПОДВЕСОМ**



**MM**

| COD.     | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Icon 1 | Kg  | Icon 2 |
|----------|-------|--------|--------|--------|--------|--------|-----|--------|
| AD574257 | 22    | 155    | 38     | 13     | 8      |        |     |        |
| AD574267 | 23    |        |        |        |        |        |     |        |
| AD574277 | 24    | 165    | 42     | 14     | 8,5    |        | 0,2 |        |
| AD574287 | 25    |        |        |        |        |        |     |        |
| AD574297 | 26    |        |        |        |        |        |     |        |
| AD562957 | 27    | 175    | 46     |        | 9,5    |        | 0,3 |        |
| AD574307 | 28    |        |        |        |        |        |     |        |
| AD574317 | 29    |        | 50     | 16     |        | 89021  | 0,4 |        |
| AD562967 | 30    | 185    |        |        |        |        |     |        |
| AD574327 | 31    |        |        |        |        |        |     |        |
| AD574337 | 32    |        | 55     |        | 11     |        | 0,5 | 5      |
| AD574347 | 33    |        |        | 18     |        |        |     |        |
| AD574357 | 34    | 210    |        |        |        |        |     |        |
| AD574367 | 35    |        |        | 19     |        |        | 0,6 |        |
| AD574377 | 36    |        | 60     |        |        |        |     |        |
| AD574387 | 37    | 220    |        |        |        |        |     |        |
| AD574397 | 38    |        |        | 20     | 12     |        | 0,7 |        |
| AD574407 | 41    | 225    | 65     |        |        |        |     |        |
| AD574417 | 42    |        |        |        |        |        |     |        |
| AD574427 | 45    |        |        |        |        |        |     |        |
| AD574437 | 46    | 240    | 75     | 22     | 13     |        | 1,0 |        |
| AD574447 | 47    |        |        |        |        |        |     |        |
| AD574457 | 48    |        |        |        |        |        |     |        |
| AD574467 | 50    | 250    | 80     | 23     |        |        | 1,2 |        |
| AD574477 | 52    |        |        |        | 14     |        |     |        |
| AD574487 | 54    |        |        |        |        | 89022  |     |        |
| AD574497 | 55    |        | 85     | 24     |        |        | 1,4 |        |
| AD574507 | 56    |        |        |        |        |        |     |        |
| AD574517 | 58    | 270    |        |        |        |        |     |        |
| AD574527 | 59    |        |        |        |        |        |     |        |
| AD574537 | 60    |        | 90     | 26     | 15     |        | 1,6 |        |
| AD574547 | 61    |        |        |        |        |        |     |        |
| AD574557 | 62    |        |        |        |        |        |     |        |
| AD574567 | 63    |        |        |        |        |        |     |        |
| AD574577 | 64    | 300    | 100    | 30     | 16     |        | 1,9 | 1      |
| AD562977 | 65    |        |        |        |        |        |     |        |
| AD574587 | 66    |        |        |        |        |        |     |        |
| AD574597 | 67    |        |        |        |        |        |     |        |
| AD574607 | 68    |        |        |        |        |        |     |        |
| AD574617 | 69    | 320    | 110    | 32     | 17     |        | 2,3 |        |
| AD574627 | 70    |        |        |        |        |        |     |        |
| AD574047 | 71    |        |        |        |        | 89023  |     |        |
| AD574057 | 72    |        |        |        |        |        |     |        |
| AD574067 | 73    |        |        |        |        |        |     |        |
| AD574077 | 74    | 330    | 115    | 33     | 18     |        | 2,9 |        |
| AD574087 | 75    |        |        |        |        |        |     |        |
| AD585817 | 80    | 350    | 125    | 34     | 19     |        | 3,6 |        |
| AD585827 | 85    | 360    | 130    | 36     | 20     |        | 3,9 |        |

| COD.     | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Icon 1 | Kg  | Icon 2 |
|----------|-------|--------|--------|--------|--------|--------|-----|--------|
| AD585837 | 90    | 380    | 135    |        |        |        |     |        |
| AD585847 | 95    | 390    | 140    | 39     | 23     | 89016  | 5,0 |        |
| AD585857 | 100   | 410    | 150    | 43     | 25     | 89017  | 6,0 | 1      |
| AD585867 | 105   | 420    | 155    |        |        |        | 6,5 |        |
| AD585877 | 110   | 450    | 165    | 45     | 28     | 89018  | 8,0 |        |
| AD585887 | 115   |        | 170    |        |        |        | 9,5 |        |

**INCH**

| COD.     | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Icon 1 | Kg  | Icon 2 |
|----------|---------|--------|--------|--------|--------|--------|-----|--------|
| AD574657 | 7/8     | 155    | 38     | 13     | 8      |        | 0,2 |        |
| AD574667 | 15/16   | 165    | 42     | 14     | 9      |        |     |        |
| AD574677 | 1       |        |        |        |        |        |     |        |
| AD574687 | 1.1/16  | 175    | 46     |        | 10     |        | 0,3 |        |
| AD574697 | 1.1/8   |        |        | 16     |        |        |     |        |
| AD574707 | 1.3/16  | 185    | 50     |        |        | 89021  | 0,4 |        |
| AD574717 | 1.1/4   |        | 55     |        | 11     |        |     |        |
| AD574727 | 1.5/16  |        |        | 18     |        |        | 0,5 | 5      |
| AD574737 | 1.3/8   | 210    |        | 19     |        |        |     |        |
| AD574747 | 1.7/16  |        | 60     |        |        |        |     |        |
| AD574757 | 1.1/2   | 220    |        |        |        |        |     |        |
| AD574767 | 1.9/16  |        |        |        |        |        |     |        |
| AD574777 | 1.5/8   | 230    | 65     | 20     | 12     |        | 0,7 |        |
| AD574787 | 1.11/16 |        |        |        |        |        |     |        |
| AD574797 | 1.3/4   |        |        |        |        |        |     |        |
| AD574807 | 1.13/16 | 240    | 75     | 22     | 13     |        |     |        |
| AD574817 | 1.7/8   |        |        |        |        |        | 1,0 |        |
| AD574827 | 1.15/16 | 250    | 80     | 23     |        |        |     |        |
| AD574837 | 2       |        |        |        |        |        |     |        |
| AD574847 | 2.1/16  |        |        |        | 14     | 89022  |     |        |
| AD574857 | 2.1/8   |        | 85     | 24     |        |        | 1,4 |        |
| AD574867 | 2.3/16  |        |        |        |        |        |     |        |
| AD574877 | 2.1/4   | 270    |        |        |        |        |     |        |
| AD574887 | 2.5/16  |        |        |        |        |        |     | 1      |
| AD574897 | 2.3/8   |        | 90     | 26     | 15     |        | 1,6 |        |
| AD574907 | 2.7/16  |        |        |        |        |        |     |        |
| AD574917 | 2.1/2   |        |        |        |        |        |     |        |
| AD574927 | 2.9/16  | 300    | 100    | 28     | 16     |        | 2,3 |        |
| AD574937 | 2.5/8   |        |        |        |        |        |     |        |
| AD574947 | 2.11/16 | 320    | 110    | 32     | 17     | 89023  |     |        |
| AD574957 | 2.3/4   |        |        |        |        |        | 2,5 |        |

• Para más información de dimensiones y características del producto, consultar en el capítulo correspondiente del catálogo general o en [www.egamaster.com](http://www.egamaster.com). / For more details about features and dimensions of the products, check the corresponding chapter of the General Catalogue or [www.egamaster.com](http://www.egamaster.com). / Pour plus d'informations sur les dimensions et les caractéristiques du produit, consulter le chapitre correspondant de notre catalogue général ou sur [www.egamaster.com](http://www.egamaster.com).

Si no encuentra el artículo que necesita, consúltenos en [consulta@egamaster.com](mailto:consulta@egamaster.com) o en [www.egamaster.com](http://www.egamaster.com)  
 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
 Si vous ne trouvez pas l'article que vous desirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)



■ **ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

■ **MM**

| COD.  | Descripción / Description /<br>Description                               | Válido para / Valid for / Valable<br>pour |
|-------|--------------------------------------------------------------------------|-------------------------------------------|
| 89129 |                                                                          | AD574257                                  |
| 89130 |                                                                          | AD574267                                  |
| 89131 |                                                                          | AD574277                                  |
| 89132 |                                                                          | AD574287                                  |
| 89133 |                                                                          | AD574297                                  |
| 89134 |                                                                          | AD562957                                  |
| 89135 |                                                                          | AD574307                                  |
| 89136 |                                                                          | AD574317                                  |
| 89137 |                                                                          | AD562967                                  |
| 89138 |                                                                          | AD574327                                  |
| 89139 |                                                                          | AD574337                                  |
| 89140 |                                                                          | AD574347                                  |
| 89141 |                                                                          | AD574357                                  |
| 89142 |                                                                          | AD574367                                  |
| 89143 |                                                                          | AD574377                                  |
| 89144 |                                                                          | AD574387                                  |
| 89145 |                                                                          | AD574397                                  |
| 89148 |                                                                          | AD574407                                  |
| 89149 |                                                                          | AD574417                                  |
| 89152 |                                                                          | AD574427                                  |
| 89153 |                                                                          | AD574437                                  |
| 89154 |                                                                          | AD574447                                  |
| 89155 |                                                                          | AD574457                                  |
| 89157 |                                                                          | AD574467                                  |
| 89159 |                                                                          | AD574477                                  |
| 89161 |                                                                          | AD574487                                  |
| 89162 | Set 5 pcs hilo tórico / Set<br>of 5 o-ring cords / Jeu de 5<br>pcs corde | AD574497                                  |
| 89163 |                                                                          | AD574507                                  |
| 89165 |                                                                          | AD574517                                  |
| 89166 |                                                                          | AD574527                                  |
| 89167 |                                                                          | AD574537                                  |
| 89168 |                                                                          | AD574547                                  |
| 89169 |                                                                          | AD574557                                  |
| 89170 |                                                                          | AD574567                                  |
| 89171 |                                                                          | AD574577                                  |
| 89172 |                                                                          | AD562977                                  |
| 89173 |                                                                          | AD574587                                  |
| 89174 |                                                                          | AD574597                                  |
| 89175 |                                                                          | AD574607                                  |
| 89176 |                                                                          | AD574617                                  |
| 89177 |                                                                          | AD574627                                  |
| 89178 |                                                                          | AD574047                                  |
| 89179 |                                                                          | AD574057                                  |
| 89180 |                                                                          | AD574067                                  |
| 89181 |                                                                          | AD574077                                  |
| 89182 |                                                                          | AD574087                                  |
| 89220 |                                                                          | AD585817                                  |
| 89221 |                                                                          | AD585827                                  |
| 89222 |                                                                          | AD585837                                  |
| 89223 |                                                                          | AD585847                                  |
| 89224 |                                                                          | AD585857                                  |
| 89225 |                                                                          | AD585867                                  |
| 89256 |                                                                          | AD585877                                  |
| 89257 |                                                                          | AD585887                                  |



■ **INCH**

| COD.  | Descripción / Description /<br>Description                               | Válido para / Valid for / Valable<br>pour |
|-------|--------------------------------------------------------------------------|-------------------------------------------|
| 89187 |                                                                          | AD574657                                  |
| 89188 |                                                                          | AD574667                                  |
| 89189 |                                                                          | AD574677                                  |
| 89190 |                                                                          | AD574687                                  |
| 89191 |                                                                          | AD574697                                  |
| 89192 |                                                                          | AD574707                                  |
| 89193 |                                                                          | AD574717                                  |
| 89194 |                                                                          | AD574727                                  |
| 89195 |                                                                          | AD574737                                  |
| 89197 |                                                                          | AD574747                                  |
| 89198 |                                                                          | AD574757                                  |
| 89199 |                                                                          | AD574767                                  |
| 89200 |                                                                          | AD574777                                  |
| 89201 |                                                                          | AD574787                                  |
| 89202 | Set 5 pcs hilo tórico / Set<br>of 5 o-ring cords / Jeu de 5<br>pcs corde | AD574797                                  |
| 89203 |                                                                          | AD574807                                  |
| 89204 |                                                                          | AD574817                                  |
| 89205 |                                                                          | AD574827                                  |
| 89206 |                                                                          | AD574837                                  |
| 89207 |                                                                          | AD574847                                  |
| 89208 |                                                                          | AD574857                                  |
| 89209 |                                                                          | AD574867                                  |
| 89211 |                                                                          | AD574877                                  |
| 89212 |                                                                          | AD574887                                  |
| 89213 |                                                                          | AD574897                                  |
| 89214 |                                                                          | AD574907                                  |
| 89215 |                                                                          | AD574917                                  |
| 89216 |                                                                          | AD574927                                  |
| 89217 |                                                                          | AD574937                                  |
| 89218 |                                                                          | AD574947                                  |
| 89219 |                                                                          | AD574957                                  |



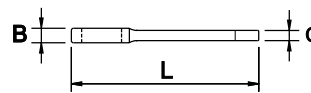
■ **MM / INCH**

| COD.  | Descripción / Description /<br>Description |
|-------|--------------------------------------------|
| 89021 |                                            |
| 89022 |                                            |
| 89023 |                                            |
| 89016 | Grillete / Shackle / Manille               |
| 89017 |                                            |
| 89018 |                                            |





**LLAVES DE GOLPE SEGURIDAD TOTAL ANTICHISPA / NON SPARKING TOTAL SAFETY SLOGGING WRENCHES / CLÉS À FRAPPER SÉCURITÉ TOTALE ANTIDÉFLAGRANT / SCHLAGRINGSCHLÜSSEL MIT SICHERUNG FUNKENFREI / CHIAVI A BATTERE SICUREZZA TOTALE ANTISCINTILLA / CHAVES DE LUNETAS SÉRIE PANCADA DE SEGURANÇA TOTAL ANTI-CHISPA / КОЛЬЦЕВОЙ ИСКРБЕЗОПАСНЫЙ УДАРНЫЙ КЛЮЧ-ЗВЕЗДОЧКА С ПОДВЕСКОМ**



MM

| COD.     | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Icon  | Kg  |
|----------|-------|--------|--------|--------|--------|-------|-----|
| AD360987 | 22    | 165    | 42     | 14     | 8,5    | 36191 | 0,2 |
| AD360997 | 24    |        |        |        |        |       |     |
| AD361007 | 25    |        |        |        |        |       |     |
| AD361017 | 26    |        |        |        |        |       |     |
| AD360747 | 27    | 175    | 46     |        | 9,5    |       | 0,3 |
| AD361027 | 28    |        |        |        |        |       |     |
| AD361037 | 29    | 185    | 53     | 16     |        | 36191 | 0,4 |
| AD360757 | 30    |        |        |        |        |       |     |
| AD361047 | 31    |        |        |        |        |       |     |
| AD360767 | 32    |        |        |        |        |       |     |
| AD361057 | 33    | 200    | 58     | 19     | 11     |       | 0,5 |
| AD361067 | 34    |        |        |        |        |       |     |
| AD361077 | 35    |        |        |        |        |       |     |
| AD360777 | 36    |        |        |        |        |       |     |
| AD361087 | 37    | 220    | 64     | 20     | 12     |       | 0,6 |
| AD361097 | 38    |        |        |        |        |       |     |
| AD361107 | 39    |        |        |        |        |       |     |
| AD361117 | 40    |        |        |        |        |       |     |
| AD361127 | 41    | 230    | 73     | 22     | 13     |       | 0,7 |
| AD361137 | 42    |        |        |        |        |       |     |
| AD361147 | 43    |        |        |        |        |       |     |
| AD361157 | 44    |        |        |        |        |       |     |
| AD361167 | 45    | 240    | 78     | 23     | 13,5   | 36192 | 0,8 |
| AD361177 | 46    |        |        |        |        |       |     |
| AD361187 | 47    |        |        |        |        |       |     |
| AD361197 | 48    |        |        |        |        |       |     |
| AD361207 | 49    | 250    | 86     | 23,5   | 14     |       | 0,9 |
| AD361217 | 50    |        |        |        |        |       |     |
| AD361227 | 51    |        |        |        |        |       |     |
| AD361237 | 52    |        |        |        |        |       |     |
| AD361247 | 53    | 260    | 92     | 25,5   | 15     |       | 1,0 |
| AD361257 | 54    |        |        |        |        |       |     |
| AD361267 | 55    |        |        |        |        |       |     |
| AD361277 | 56    |        |        |        |        |       |     |
| AD361287 | 57    | 270    | 102    | 28     | 16     |       | 1,1 |
| AD361297 | 58    |        |        |        |        |       |     |
| AD361307 | 59    |        |        |        |        |       |     |
| AD361317 | 60    |        |        |        |        |       |     |
| AD361327 | 61    | 280    | 108    | 31,5   | 17     | 36193 | 1,2 |
| AD361337 | 62    |        |        |        |        |       |     |
| AD361347 | 63    |        |        |        |        |       |     |
| AD361357 | 64    |        |        |        |        |       |     |
| AD361367 | 65    | 300    | 108    | 31,5   | 17     |       | 1,3 |
| AD361377 | 66    |        |        |        |        |       |     |
| AD361387 | 67    |        |        |        |        |       |     |
| AD361397 | 68    |        |        |        |        |       |     |
| AD361407 | 69    | 320    | 108    | 31,5   | 17     |       | 1,4 |
|          |       |        |        |        |        |       |     |
|          |       |        |        |        |        |       |     |
|          |       |        |        |        |        |       |     |

| COD.     | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Icon | Kg  |
|----------|-------|--------|--------|--------|--------|------|-----|
| AD361417 | 70    | 320    | 108    | 31,5   | 17     |      | 2,2 |
| AD361427 | 71    |        |        |        |        |      |     |
| AD361437 | 72    |        |        |        |        |      |     |
| AD361447 | 73    |        |        |        |        |      |     |
| AD361457 | 74    | 330    | 113    | 33     | 18     |      | 2,7 |
| AD361467 | 75    |        |        |        |        |      |     |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cu-Be

INCH

| COD.     | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Icon  | Kg  |
|----------|---------|--------|--------|--------|--------|-------|-----|
| AD361507 | 7/8     | 165    | 42     | 14     | 8,5    |       | 0,4 |
| AD361517 | 15/16   |        |        |        |        |       |     |
| AD361527 | 1       |        |        |        |        |       |     |
| AD361537 | 1.1/16  |        |        |        |        |       |     |
| AD361547 | 1.1/8   | 175    | 46     |        | 9,5    |       | 0,5 |
| AD361557 | 1.3/16  |        |        |        |        |       |     |
| AD361567 | 1.1/4   |        |        |        |        |       |     |
| AD361577 | 1.5/16  |        |        |        |        |       |     |
| AD361587 | 1.3/8   | 185    | 53     | 16     | 10,5   | 36191 | 0,6 |
| AD361597 | 1.13/32 |        |        |        |        |       |     |
| AD361607 | 1.7/16  |        |        |        |        |       |     |
| AD361617 | 1.1/2   |        |        |        |        |       |     |
| AD361627 | 1.9/16  | 200    | 58     | 19     | 11     |       | 0,7 |
| AD361637 | 1.5/8   |        |        |        |        |       |     |
| AD361647 | 1.11/16 |        |        |        |        |       |     |
| AD361657 | 1.3/4   |        |        |        |        |       |     |
| AD361667 | 1.13/16 | 220    | 64     | 20     | 12     |       | 0,8 |
| AD361677 | 1.7/8   |        |        |        |        |       |     |
| AD361687 | 1.15/16 |        |        |        |        |       |     |
| AD361697 | 2       |        |        |        |        |       |     |
| AD361707 | 2.1/16  | 230    | 73     | 22     | 13     |       | 0,9 |
| AD361717 | 2.1/8   |        |        |        |        |       |     |
| AD361727 | 2.3/16  |        |        |        |        |       |     |
| AD361737 | 2.13/64 |        |        |        |        |       |     |
| AD361747 | 2.1/4   | 250    | 78     | 23     | 13,5   | 36192 | 1,0 |
| AD361757 | 2.5/16  |        |        |        |        |       |     |
| AD361767 | 2.3/8   |        |        |        |        |       |     |
| AD361777 | 2.7/16  |        |        |        |        |       |     |
| AD361787 | 2.1/2   | 270    | 92     | 25,5   | 15     |       | 1,1 |
| AD361797 | 2.9/16  |        |        |        |        |       |     |
| AD361807 | 2.5/8   |        |        |        |        |       |     |
| AD361817 | 2.3/4   |        |        |        |        |       |     |
|          |         | 280    | 102    | 30     | 16     |       | 1,2 |
|          |         |        |        |        |        |       |     |
|          |         |        |        |        |        |       |     |
|          |         |        |        |        |        |       |     |
|          |         | 300    | 102    | 30     | 16     |       | 1,3 |
|          |         |        |        |        |        |       |     |
|          |         |        |        |        |        |       |     |
|          |         |        |        |        |        |       |     |
|          |         | 320    | 108    | 31,5   | 17     | 36193 | 1,4 |
|          |         |        |        |        |        |       |     |
|          |         |        |        |        |        |       |     |
|          |         |        |        |        |        |       |     |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cu-Be

• Para más información de dimensiones y características del producto, consultar en el capítulo correspondiente del catálogo general o en [www.egamaster.com](http://www.egamaster.com). / For more details about features and dimensions of the products, check the corresponding chapter of the General Catalogue or [www.egamaster.com](http://www.egamaster.com). / Pour plus d'informations sur les dimensions et les caractéristiques du produit, consulter le chapitre correspondant de notre catalogue général ou sur [www.egamaster.com](http://www.egamaster.com).

**ACO**

■ **ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

■ **MM**

| COD.  | Descripción / Description /<br>Description                               | Válido para / Valid for / Valable<br>pour |
|-------|--------------------------------------------------------------------------|-------------------------------------------|
| 89129 |                                                                          | AD574257                                  |
| 89131 |                                                                          | AD574277                                  |
| 89132 |                                                                          | AD574287                                  |
| 89133 |                                                                          | AD574297                                  |
| 89134 |                                                                          | AD562957                                  |
| 89135 |                                                                          | AD574307                                  |
| 89136 |                                                                          | AD574317                                  |
| 89137 |                                                                          | AD562967                                  |
| 89138 |                                                                          | AD574327                                  |
| 89139 |                                                                          | AD574337                                  |
| 89140 |                                                                          | AD574347                                  |
| 89141 |                                                                          | AD574357                                  |
| 89142 |                                                                          | AD574367                                  |
| 89143 |                                                                          | AD574377                                  |
| 89144 |                                                                          | AD574387                                  |
| 89145 |                                                                          | AD574397                                  |
| 89146 |                                                                          | AD361107                                  |
| 89147 |                                                                          | AD361117                                  |
| 89148 |                                                                          | AD574407                                  |
| 89149 |                                                                          | AD574417                                  |
| 89150 |                                                                          | AD361147                                  |
| 89151 |                                                                          | AD361157                                  |
| 89152 |                                                                          | AD574427                                  |
| 89153 |                                                                          | AD574437                                  |
| 89154 |                                                                          | AD574447                                  |
| 89155 | Set 5 pcs hilo tórico / Set<br>of 5 o-ring cords / Jeu de 5<br>pcs corde | AD574457                                  |
| 89156 |                                                                          | AD361207                                  |
| 89157 |                                                                          | AD574467                                  |
| 89158 |                                                                          | AD361227                                  |
| 89159 |                                                                          | AD574477                                  |
| 89160 |                                                                          | AD361247                                  |
| 89161 |                                                                          | AD574487                                  |
| 89162 |                                                                          | AD574497                                  |
| 89163 |                                                                          | AD574507                                  |
| 89164 |                                                                          | AD361287                                  |
| 89165 |                                                                          | AD574517                                  |
| 89166 |                                                                          | AD574527                                  |
| 89167 |                                                                          | AD574537                                  |
| 89168 |                                                                          | AD574547                                  |
| 89169 |                                                                          | AD574557                                  |
| 89170 |                                                                          | AD574567                                  |
| 89171 |                                                                          | AD574577                                  |
| 89172 |                                                                          | AD562977                                  |
| 89173 |                                                                          | AD574587                                  |
| 89174 |                                                                          | AD574597                                  |
| 89175 |                                                                          | AD574607                                  |
| 89176 |                                                                          | AD574617                                  |
| 89177 |                                                                          | AD574627                                  |
| 89178 |                                                                          | AD574047                                  |
| 89179 |                                                                          | AD574057                                  |
| 89180 |                                                                          | AD574067                                  |
| 89181 |                                                                          | AD574077                                  |
| 89182 |                                                                          | AD574087                                  |

○x5

■ **INCH**

| COD.  | Descripción / Description /<br>Description                               | Válido para / Valid for / Valable<br>pour |
|-------|--------------------------------------------------------------------------|-------------------------------------------|
| 89187 |                                                                          | AD574657                                  |
| 89188 |                                                                          | AD574667                                  |
| 89189 |                                                                          | AD574677                                  |
| 89190 |                                                                          | AD574687                                  |
| 89191 |                                                                          | AD574697                                  |
| 89192 |                                                                          | AD574707                                  |
| 89193 |                                                                          | AD574717                                  |
| 89194 |                                                                          | AD574727                                  |
| 89195 |                                                                          | AD574737                                  |
| 89196 |                                                                          | AD361597                                  |
| 89197 |                                                                          | AD574747                                  |
| 89198 |                                                                          | AD574757                                  |
| 89199 |                                                                          | AD574767                                  |
| 89200 |                                                                          | AD574777                                  |
| 89201 |                                                                          | AD574787                                  |
| 89202 | Set 5 pcs hilo tórico / Set<br>of 5 o-ring cords / Jeu de 5<br>pcs corde | AD574797                                  |
| 89203 |                                                                          | AD574807                                  |
| 89204 |                                                                          | AD574817                                  |
| 89205 |                                                                          | AD574827                                  |
| 89206 |                                                                          | AD574837                                  |
| 89207 |                                                                          | AD574847                                  |
| 89208 |                                                                          | AD574857                                  |
| 89209 |                                                                          | AD574867                                  |
| 89210 |                                                                          | AD361737                                  |
| 89211 |                                                                          | AD574877                                  |
| 89212 |                                                                          | AD574887                                  |
| 89213 |                                                                          | AD574897                                  |
| 89214 |                                                                          | AD574907                                  |
| 89215 |                                                                          | AD574917                                  |
| 89216 |                                                                          | AD574927                                  |
| 89217 |                                                                          | AD574937                                  |
| 89219 |                                                                          | AD574957                                  |

○x5

■ **MM / INCH**

| COD.  | Descripción / Description /<br>Description | MAT.    |
|-------|--------------------------------------------|---------|
| 36191 |                                            |         |
| 36192 | Grillete / Shackle / Manille               | Al-Bron |
| 36193 |                                            |         |



ACO

■ LLAVES FIJAS / OPEN-END WRENCHES / CLÉS À FOURCHE / GABELSCHLÜSSEL / CHIAVI FISSE / CHAVES DUAS BOCAS / РОЖКОВЫЕ КЛЮЧИ

■ MM



| COD.     | AP mm |
|----------|-------|
| AD617017 | 6-7   |
| AD629287 | 7-8   |
| AD617027 | 8-9   |
| AD679087 | 8-10  |
| AD617037 | 10-11 |
| AD626297 | 10-13 |
| AD679097 | 11-13 |
| AD617047 | 12-13 |
| AD679107 | 12-14 |
| AD679117 | 13-14 |
| AD679127 | 13-15 |
| AD679137 | 13-16 |
| AD617057 | 14-15 |
| AD679147 | 13-17 |
| AD629307 | 14-17 |
| AD617067 | 16-17 |
| AD679157 | 16-18 |
| AD617007 | 17-19 |
| AD617077 | 18-19 |
| AD679167 | 18-21 |
| AD629317 | 19-22 |
| AD617087 | 20-22 |
| AD617097 | 21-23 |
| AD639617 | 21-24 |
| AD679177 | 22-24 |
| AD617107 | 24-26 |
| AD616527 | 24-27 |
| AD617117 | 25-28 |
| AD617127 | 27-29 |
| AD679187 | 27-30 |
| AD679197 | 27-32 |
| AD617137 | 30-32 |

DIN 3110

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

Cromado aeroespacial / *Aerospatial chrome plating* / Chromée aérospatiale

■ INCH



| COD.     | AP inch      |
|----------|--------------|
| AD603007 | 1/4-5/16     |
| AD603017 | 5/16-3/8     |
| AD679417 | 5/16-11/32   |
| AD603027 | 3/8-7/16     |
| AD679427 | 7/16-1/2     |
| AD603037 | 1/2-9/16     |
| AD603047 | 9/16-5/8     |
| AD603057 | 19/32-11/16  |
| AD603067 | 5/8-11/16    |
| AD679437 | 5/8-3/4      |
| AD603077 | 11/16-3/4    |
| AD603087 | 3/4-25/32    |
| AD603097 | 3/4-7/8      |
| AD603107 | 13/16-7/8    |
| AD679447 | 7/8-15/16    |
| AD603117 | 15/16-1      |
| AD679457 | 15/16-1.1/8  |
| AD603127 | 1-1.1/8      |
| AD603137 | 1.1/16-1.1/8 |
| AD603147 | 1.1/16-1.1/4 |

DIN 3110

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

Cromado pulido espejo / *Mirror polished chrome plating* / Polie chromée

**ASCO**

LLAVES COMBINADAS / COMBINATION WRENCHES / CLÉS MIXTES / RINGGABELSCHLÜSSEL / CHIAVI COMBINATE / CHAVES BOCA E LUNETA / КОМБИНИРОВАННЫЕ КЛЮЧИ

■ MM



| COD.     | AP mm |
|----------|-------|
| AD617257 | 6     |
| AD617267 | 7     |
| AD617277 | 8     |
| AD617287 | 9     |
| AD617297 | 10    |
| AD617307 | 11    |
| AD617317 | 12    |
| AD617327 | 13    |
| AD617337 | 14    |
| AD617347 | 15    |
| AD617357 | 16    |
| AD617367 | 17    |
| AD617377 | 18    |
| AD617387 | 19    |
| AD617397 | 20    |
| AD617407 | 21    |
| AD617417 | 22    |
| AD617427 | 23    |
| AD617437 | 24    |
| AD617447 | 25    |
| AD617457 | 26    |
| AD617467 | 27    |
| AD617477 | 28    |
| AD617487 | 29    |
| AD617497 | 30    |
| AD617507 | 32    |

DIN 3113

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

Cromado aeroespacial / *Aerospatial chrome plating* / Chromée aérospatiale

■ INCH



| COD.     | AP inch |
|----------|---------|
| AD603407 | 1/4     |
| AD603417 | 5/16    |
| AD678787 | 11/32   |
| AD603427 | 3/8     |
| AD603437 | 7/16    |
| AD603447 | 1/2     |
| AD603457 | 9/16    |
| AD603467 | 19/32   |
| AD603477 | 5/8     |
| AD603487 | 11/16   |
| AD603497 | 3/4     |
| AD603507 | 25/32   |
| AD603517 | 13/16   |
| AD603527 | 7/8     |
| AD603537 | 15/16   |
| AD603547 | 1       |
| AD603557 | 1.1/16  |
| AD603567 | 1.1/8   |
| AD603577 | 1.3/16  |
| AD603587 | 1.1/4   |
| AD609577 | 1.5/16  |
| AD609587 | 1.3/8   |
| AD609617 | 1.7/16  |
| AD609597 | 1.1/2   |
| AD609627 | 1.5/8   |
| AD608977 | 1.3/4   |
| AD608987 | 1.13/16 |
| AD608997 | 1.7/8   |
| AD609607 | 2       |

DIN 3113

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

Cromado pulido espejo / *Mirror polished chrome plating* / Polie chromée

ACO

LLAVES ACODADAS / DOUBLE OFFSET RING WRENCHES / CLÉS POLYGAONALES CONTRE-COUDÉES / RINGSCHLÜSSEL / CHIAVI POLIGONALI / CHAVES LUNETA / КЛЮЧИ ДВОЙНАЯ ИЗОГНУТАЯ ЗВЕЗДОЧКА

MM



| COD.     | AF mm |
|----------|-------|
| AD617757 | 6-7   |
| AD678437 | 7-8   |
| AD617767 | 8-9   |
| AD678447 | 8-10  |
| AD617777 | 10-11 |
| AD678457 | 10-12 |
| AD678467 | 10-13 |
| AD678477 | 11-13 |
| AD678487 | 11-14 |
| AD617787 | 12-13 |
| AD678497 | 12-14 |
| AD678507 | 13-14 |
| AD617797 | 14-15 |
| AD678517 | 13-16 |
| AD678527 | 13-17 |
| AD678537 | 14-17 |
| AD617807 | 16-17 |
| AD678547 | 16-18 |
| AD678557 | 17-19 |
| AD617817 | 18-19 |
| AD678567 | 18-21 |
| AD678577 | 19-22 |
| AD617827 | 20-22 |
| AD617837 | 21-23 |
| AD678587 | 21-24 |
| AD678597 | 22-24 |
| AD617847 | 24-26 |
| AD617887 | 24-27 |
| AD617857 | 25-28 |
| AD617867 | 27-29 |
| AD678607 | 27-30 |
| AD617877 | 30-32 |

DIN 838

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

Cromado aeroespacial / Aerospaceal chrome plating / Chromée aérospatiale

INCH



| COD.     | AF inch      |
|----------|--------------|
| AD603807 | 1/4-5/16     |
| AD678867 | 5/16-11/32   |
| AD603817 | 5/16-3/8     |
| AD603827 | 3/8-7/16     |
| AD678877 | 7/16-1/2     |
| AD603837 | 1/2-9/16     |
| AD603847 | 9/16-5/8     |
| AD603857 | 19/32-11/16  |
| AD603867 | 5/8-11/16    |
| AD678887 | 5/8-3/4      |
| AD603877 | 11/16-3/4    |
| AD678897 | 11/16-13/16  |
| AD603887 | 3/4-25/32    |
| AD603897 | 3/4-7/8      |
| AD678907 | 3/4-13/16    |
| AD603907 | 13/16-7/8    |
| AD678917 | 7/8-15/16    |
| AD678927 | 7/8-1.1/16   |
| AD603917 | 15/16-1      |
| AD678937 | 1-1.1/16     |
| AD603927 | 1-1.1/8      |
| AD603937 | 1.1/16-1.1/8 |
| AD603947 | 1.1/16-1.1/4 |
| AD678947 | 1.1/8-1.1/4  |

DIN 838

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

Cromado pulido espejo / Mirror polished chrome plating / Polie chromée

**ACO**

LLAVES DE PIPA ABIERTA / ANGLED OPEN SOCKETS / CLÉS À PIPE DEBOUCHEES / PFEIFFENKOPFSCHLÜSSEL / CHIAVI A PIPA APERTE / CHAVE DE CACHIMBO  
 ABERTAS / ГОЛОВКА С РУКОЯТКОЙ ПОД 90 ГРАДУСОВ



| COD.     | AP mm | AP inch |
|----------|-------|---------|
| AD611727 | 8     | 5/16    |
| AD611747 | 10    | 25/64   |
| AD611757 | 11    | 7/16    |
| AD611767 | 12    | 15/32   |
| AD611777 | 13    | -       |
| AD611787 | 14    | 35/64   |
| AD611797 | 15    | -       |
| AD611807 | 16    | -       |
| AD611817 | 17    | -       |
| AD611827 | 18    | -       |
| AD611837 | 19    | 3/4     |
| AD611857 | 21    | -       |
| AD611867 | 22    | -       |
| AD611877 | 23    | 29/32   |
| AD611887 | 24    | -       |
| AD611947 | 30    | 1.3/16  |

TITACROM® | DIN 475

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

6 x 6

DESTORNILLADORES / SCREWDRIVERS / TOURNEVIS / SCHRAUBENZIEHER / CACCIAVITI / CHAVES DE FENDA / ОТВЕРТКИ

MASTERTORK

MECÁNICO / SLOTTED / MECANICIEN / FÜR SCHLITZSCHRAUBEN / PER MECCANICI / MECÂNICO / ПЛОСКАЯ

MM

INCH



| COD.     | mm  | mm  |
|----------|-----|-----|
| AD664007 | 3   | 80  |
| AD664017 | 4   | 100 |
| AD664027 | 5,5 | 125 |
| AD664037 | 6,5 | 150 |
| AD664047 | 8   | 200 |
| AD664077 | 9,5 | 250 |
| AD664087 | 10  | 250 |
| AD664097 | 12  | 250 |
| AD664497 | 13  | 250 |
| AD664107 | 14  | 250 |

| COD.     | inch  | inch |
|----------|-------|------|
| AD553307 | 1/8   | 3    |
| AD553317 | 5/32  | 4    |
| AD553327 | 7/32  | 5    |
| AD553337 | 1/4   | 6    |
| AD553347 | 5/16  | 8    |
| AD553357 | 3/8   | 10   |
| AD553367 | 25/64 | 10   |
| AD553377 | 15/32 | 10   |
| AD553387 | 1/2   | 10   |
| AD553397 | 1/2   | 10   |
| AD553407 | 1/2   | 10   |
| AD553417 | 1/2   | 10   |

DIN 5265

DIN 5265



**ACO**

MM



| COD.     | mm  | mm  |
|----------|-----|-----|
| AD664137 | 4   | 100 |
| AD664147 | 5,5 | 125 |
| AD664157 | 6,5 | 150 |
| AD664167 | 8   | 200 |
| AD664177 | 10  | 250 |
| AD664187 | 12  |     |
| AD664197 | 14  |     |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Hexagonal / Hexagonal / Hexagonale

INCH



| COD.     | inch  | inch |
|----------|-------|------|
| AD553447 | 5/32  | 4    |
| AD553457 | 7/32  | 5    |
| AD553467 | 1/4   | 6    |
| AD553477 | 5/16  | 8    |
| AD553487 | 25/64 | 10   |
| AD553497 | 15/32 |      |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Hexagonal / Hexagonal / Hexagonale

**ELECTRICISTA / ELECTRICIAN / ELECTRICIEN / ELEKTRIK / PER ELETRICISTI / ELETRICISTA / ЭЛЕКТРИЧЕСКАЯ**

MM



| COD.     | mm  | mm  |
|----------|-----|-----|
| AD664207 | 2,5 | 75  |
| AD664217 | 3   | 60  |
| AD664227 | 3   | 100 |
| AD664237 | 3   | 125 |
| AD664247 | 4   | 150 |
| AD664117 | 4   | 300 |
| AD664257 | 4   | 150 |
| AD664127 | 5,5 | 300 |
| AD664267 | 6,5 | 150 |
| AD664277 | 8,0 | 175 |



INCH



| COD.     | inch | inch |
|----------|------|------|
| AD553527 | 3/32 | 3    |
| AD553547 | 1/8  | 4    |
| AD553557 | 1/8  | 5    |
| AD553567 | 5/32 | 6    |
| AD553577 | 5/32 | 12   |
| AD553587 | 7/32 | 6    |
| AD553597 | 7/32 | 12   |
| AD553607 | 1/4  | 6    |
| AD553617 | 5/16 | 7    |



**PHILLIPS®\***



| COD.     | mm   | mm  |
|----------|------|-----|
| AD664387 | PH-0 | 60  |
| AD664397 | PH-1 | 100 |
| AD664377 | PH-1 | 300 |
| AD664407 | PH-2 | 125 |
| AD664437 | PH-2 | 300 |
| AD664417 | PH-3 | 150 |
| AD664427 | PH-4 | 200 |



| COD.     | mm   | mm  |
|----------|------|-----|
| AD664447 | PH-1 | 100 |
| AD664457 | PH-2 | 125 |
| AD664467 | PH-3 | 150 |
| AD664477 | PH-4 | 200 |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Hexagonal / Hexagonal / Hexagonale

- Para más información de dimensiones y características del producto, consultar en el capítulo correspondiente del catálogo general o en [www.egamaster.com](http://www.egamaster.com). / For more details about features and dimensions of the products, check the corresponding chapter of the General Catalogue or [www.egamaster.com](http://www.egamaster.com). / Pour plus d'informations sur les dimensions et les caractéristiques du produit, consulter le chapitre correspondant de notre catalogue général ou sur [www.egamaster.com](http://www.egamaster.com).
- \*Para tornillos PHILLIPS® (Marca registrada por Phillips Screw Company) / \*For screws PHILLIPS® (Phillips Screw Company registered trademark) / \*Pour vis PHILLIPS® (Marque enregistrée par Phillips Screw Company)

**ACO**

**POZIDRIV®\***



| COD.     |      |     |
|----------|------|-----|
| AD664567 | PZ-0 | 60  |
| AD664577 | PZ-1 | 100 |
| AD664727 | PZ-2 | 300 |
| AD664587 | PZ-3 | 125 |
| AD664737 | PZ-4 | 300 |
| AD664597 | PZ-5 | 150 |
| AD664607 | PZ-6 | 200 |

| DIN 5262



| COD.     |      |     |
|----------|------|-----|
| AD664627 | PZ-1 | 100 |
| AD664637 | PZ-2 | 125 |
| AD664647 | PZ-3 | 150 |
| AD664657 | PZ-4 | 200 |

| DIN 5262

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Hexagonal / Hexagonal / Hexagonale

**TORX®\***



| COD.     |      |     |
|----------|------|-----|
| AD664747 | T-6  | 50  |
| AD664757 | T-7  |     |
| AD664767 | T-8  |     |
| AD664777 | T-9  |     |
| AD664787 | T-10 |     |
| AD664797 | T-15 | 75  |
| AD664807 | T-20 |     |
| AD664817 | T-25 | 100 |
| AD664827 | T-27 |     |
| AD664837 | T-30 |     |
| AD664847 | T-40 | 125 |
| AD664857 | T-45 |     |
| AD664867 | T-50 | 175 |

| DIN 5262

**TAMPER TORX**



| COD.     |       |     |
|----------|-------|-----|
| AD664877 | TT-6  | 50  |
| AD664887 | TT-7  |     |
| AD664897 | TT-8  |     |
| AD664907 | TT-9  |     |
| AD664917 | TT-10 |     |
| AD664927 | TT-15 | 75  |
| AD664937 | TT-20 |     |
| AD664947 | TT-25 | 100 |
| AD664957 | TT-27 |     |
| AD664967 | TT-30 |     |
| AD664977 | TT-40 | 125 |
| AD664987 | TT-45 |     |
| AD664997 | TT-50 | 175 |

**PUNTA ESFERA / BALL TIP / TÊTE SPHÉRIQUE / KUGELKOPF / TESTA SFERICA / PONTA ESFERICA / С ШАРОВОЙ ГОЛОВКОЙ**

**MM**



| COD.     |     |    |
|----------|-----|----|
| AD665017 | 2,5 | 75 |
| AD665027 | 3   |    |
| AD665037 | 4   |    |

**INCH**





| COD.     |       |   |
|----------|-------|---|
| AD553647 | 1/8   | 3 |
| AD553657 | 5/32  | 4 |
| AD553687 | 5/16  | 6 |
| AD553697 | 25/64 |   |

\*Para tornillos POZIDRIV® (Marca registrada por European Ind. Serv. Ltd.) / \*For screws POZIDRIV® (European Ind. Serv. Ltd. registered trademark) / \*Pour vis POZIDRIV® (Marque enregistrée par European Ind. Serv. Ltd.)  
 \*Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)

**ACO**

**ROBERTSON**



| COD.     |  |  |
|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| AD665307 | 1                                                                                 | 100                                                                               |
| AD665317 | 2                                                                                 | 125                                                                               |
| AD665327 | 3                                                                                 | 150                                                                               |





**CARROCERO / STUBBY / TOM POUCE / SCHRAUBENDREHER, KURZE FORM / CACCIAVITI NANI / COTOS / КОРОТКАЯ**

**ELECTRICISTA / ELECTRICIAN / ELECTRICIEN / ELEKTRIK / PER ELETTRICISTI / ELETRICISTA / ЭЛЕКТРИЧЕСКАЯ**

**MM**




| COD.     |  |  |
|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| AD665257 | 5,5                                                                               | 25                                                                                |

**DIN 5265**

**INCH**



| COD.     |  |  |
|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| AD553717 | 7/32                                                                                | 1                                                                                   |

**DIN 5265**

**PHILLIPS®\***



| COD.     |  |  |
|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| AD671927 | PH-1                                                                                | 25                                                                                  |
| AD665267 | PH-2                                                                                |                                                                                     |

**DIN 5262**

**POZIDRIV®\*\***





| COD.     |  |  |
|----------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| AD671937 | PZ-1                                                                                  | 25                                                                                    |
| AD665277 | PZ-2                                                                                  |                                                                                       |

**DIN 5262**

**DE VASO / SOCKET SCREWDRIVER / CLÉ À DOUILLE EMMANCHÉE / 6-KANT STECKSCHLÜSSEL / BUSSOLE / DE CAIXA / ОТВЕРТКА С ГОЛОВКОЙ**



**MM**



| COD.     |  |  |
|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| AD665107 | 4                                                                                   | 175                                                                                 |
| AD665117 | 5                                                                                   |                                                                                     |
| AD665127 | 5,5                                                                                 |                                                                                     |
| AD665137 | 6                                                                                   |                                                                                     |
| AD665147 | 7                                                                                   |                                                                                     |
| AD665157 | 8                                                                                   |                                                                                     |
| AD665167 | 9                                                                                   |                                                                                     |
| AD665177 | 10                                                                                  |                                                                                     |
| AD665187 | 11                                                                                  |                                                                                     |
| AD665197 | 12                                                                                  |                                                                                     |
| AD665207 | 13                                                                                  |                                                                                     |
| AD665217 | 14                                                                                  |                                                                                     |

**INCH**



| COD.     |  |  |
|----------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| AD553737 | 5/32                                                                                  | 6                                                                                     |
| AD553747 | 3/16                                                                                  |                                                                                       |
| AD553757 | 7/32                                                                                  |                                                                                       |
| AD553767 | 1/4                                                                                   |                                                                                       |
| AD553787 | 5/16                                                                                  |                                                                                       |
| AD553797 | 11/32                                                                                 |                                                                                       |
| AD553807 | 25/64                                                                                 | 7                                                                                     |
| AD553827 | 15/32                                                                                 |                                                                                       |
| AD553837 | 1/2                                                                                   |                                                                                       |



\* Para más información de dimensiones y características del producto, consultar en el capítulo correspondiente del catálogo general o en [www.egamaster.com](http://www.egamaster.com). / For more details about features and dimensions of the products, check the corresponding chapter of the General Catalogue or [www.egamaster.com](http://www.egamaster.com). / Pour plus d'informations sur les dimensions et les caractéristiques du produit, consulter le chapitre correspondant de notre catalogue général ou sur [www.egamaster.com](http://www.egamaster.com).  
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**ACO**

**MICROTRONIC**

**ELECTRICISTA / ELECTRICIAN / ELECTRICIEN / ELEKTRIK / PER ELETTRONICA /  
 ELETRICISTA / ЭЛЕКТРИЧЕСКАЯ**

**MM**



| COD.     | mm | mm |
|----------|----|----|
| AD668467 | 2  | 50 |
| AD668487 | 3  | 75 |
| AD668497 | 4  |    |

DIN 6265

**PHILLIPS®\***



| COD.     | +     | mm |
|----------|-------|----|
| AD668507 | PH-00 | 50 |
| AD668517 | PH-0  |    |
| AD668527 | PH-1  | 75 |

DIN 6262

**LIMAS, ESCOFINAS, BOTADORES Y GRANETES / FILES, RASPS & PUNCHES / LIMES, RAPES, POINTEAUX ET CHASSES GOUPILLES / FEILEN, RASPELN,  
 DURCHSCHLÄGER UND KÖRNER / LIMA, RASPE E PUNZONI / LIMAS, GROSAS E PUNÇÕES / НАПИЛЬНИКИ, РАШПИЛИ, МЕТЧИКИ**

**STANDARD**

**LIMAS PLANAS PARALELAS / HAND FILES / LIMES PLATES PARALLELES /  
 FLACHSTUMPF / LIMA PIATTA PARALLELA / LIMAS PARALELAS / РУЧНЫЕ  
 НАПИЛЬНИКИ**



| COD.     | L (inch) |   |
|----------|----------|---|
| AD634917 |          | 1 |
| AD634927 | 4        | 2 |
| AD634937 |          | 3 |
| AD634947 |          | 1 |
| AD634957 | 6        | 2 |
| AD634967 |          | 3 |
| AD634977 |          | 1 |
| AD634987 | 8        | 2 |
| AD634997 |          | 3 |
| AD635007 |          | 1 |
| AD635017 | 10       | 2 |
| AD635027 |          | 3 |
| AD635037 |          | 1 |
| AD635047 | 12       | 2 |
| AD635057 |          | 3 |
| AD635067 |          | 1 |
| AD635077 | 14       | 2 |
| AD635087 |          | 3 |

1: Basta / Bastard / Bâtarde  
 2: Entrefina / Medium / Demi-douce  
 3: Fina / Smooth / Douce

**LIMAS PLANAS DE PUNTA / FLAT FILES / LIMES PLATES DE BOUT / FLACHSPITZ / LIMA  
 PIATTA A PUNTA / LIMAS CHATAS / ПЛОСКИЕ НАПИЛЬНИКИ**



| COD.     | L (inch) |   |
|----------|----------|---|
| AD635277 |          | 1 |
| AD635287 | 4        | 2 |
| AD635297 |          | 3 |
| AD635307 |          | 1 |
| AD635317 | 6        | 2 |
| AD635327 |          | 3 |
| AD635337 |          | 1 |
| AD635347 | 8        | 2 |
| AD635357 |          | 3 |
| AD635367 |          | 1 |
| AD635377 | 10       | 2 |
| AD635387 |          | 3 |
| AD635397 |          | 1 |
| AD635407 | 12       | 2 |
| AD635417 |          | 3 |
| AD635427 |          | 1 |
| AD635437 | 14       | 2 |
| AD635447 |          | 3 |

1: Basta / Bastard / Bâtarde  
 2: Entrefina / Medium / Demi-douce  
 3: Fina / Smooth / Douce

**ACO**

**LIMAS MEDIA CAÑA / HALF ROUND FILES / LIMES DEMI-RONDES / HALBRUNDFEILEN, SPITZE FORM / LIMA MEZZATONDA / LIMAS MEIA CANA / ПОЛУКРУГЛЫЕ НАПИЛЬНИКИ**



| COD.     | L (inch) |   |  |
|----------|----------|---|--|
| AD635637 |          | 1 |  |
| AD635647 | 4        | 2 |  |
| AD635657 |          | 3 |  |
| AD635667 |          | 1 |  |
| AD635677 | 6        | 2 |  |
| AD635687 |          | 3 |  |
| AD635697 |          | 1 |  |
| AD635707 | 8        | 2 |  |
| AD635717 |          | 3 |  |
| AD635727 |          | 1 |  |
| AD635737 | 10       | 2 |  |
| AD635747 |          | 3 |  |
| AD635757 |          | 1 |  |
| AD635767 | 12       | 2 |  |
| AD635777 |          | 3 |  |
| AD635787 |          | 1 |  |
| AD635797 | 14       | 2 |  |
| AD635807 |          | 3 |  |

1: Basta / Bastard / Bâtarde  
 2: Entrefina / Medium / Demi-douce  
 3: Fina / Smooth / Douce

**LIMAS TRIANGULARES / TRIANGULAR FILES / LIMES TRIANGULAIRES / DREIKANTFEILEN / LIMA TRIANGOLARE / LIMATÕES TRIANGULARES / ТРЕУГОЛЬНЫЕ НАПИЛЬНИКИ**



| COD.     | L (inch) |   |  |
|----------|----------|---|--|
| AD635997 |          | 1 |  |
| AD636007 | 4        | 2 |  |
| AD636017 |          | 3 |  |
| AD636027 |          | 1 |  |
| AD636037 | 6        | 2 |  |
| AD636047 |          | 3 |  |
| AD636057 |          | 1 |  |
| AD636067 | 8        | 2 |  |
| AD636077 |          | 3 |  |
| AD636087 |          | 1 |  |
| AD636097 | 10       | 2 |  |
| AD636107 |          | 3 |  |
| AD636117 |          | 1 |  |
| AD636127 | 12       | 2 |  |
| AD636137 |          | 3 |  |
| AD636147 |          | 1 |  |
| AD636157 | 14       | 2 |  |
| AD636167 |          | 3 |  |

1: Basta / Bastard / Bâtarde  
 2: Entrefina / Medium / Demi-douce  
 3: Fina / Smooth / Douce

**LIMAS CUADRADAS / SQUARE FILES / LIMES CARRÉES / VIERKANTFEILEN / LIMA QUADRA / LIMATÕES QUADRADOS / КВАДРАТНЫЕ НАПИЛЬНИКИ**



| COD.     | L (inch) |   |  |
|----------|----------|---|--|
| AD636357 |          | 1 |  |
| AD636367 | 4        | 2 |  |
| AD636377 |          | 3 |  |
| AD636387 |          | 1 |  |
| AD636397 | 6        | 2 |  |
| AD636407 |          | 3 |  |
| AD636417 |          | 1 |  |
| AD636427 | 8        | 2 |  |
| AD636437 |          | 3 |  |
| AD636447 |          | 1 |  |
| AD636457 | 10       | 2 |  |
| AD636467 |          | 3 |  |
| AD636477 |          | 1 |  |
| AD636487 | 12       | 2 |  |
| AD636497 |          | 3 |  |
| AD636507 |          | 1 |  |
| AD636517 | 14       | 2 |  |
| AD636527 |          | 3 |  |

1: Basta / Bastard / Bâtarde  
 2: Entrefina / Medium / Demi-douce  
 3: Fina / Smooth / Douce

**LIMAS REDONDAS / ROUND FILES / LIMES RONDES / RUNDFEILEN / LIMA TONDA / LIMATÕES REDONDOS / КРУГЛЫЕ НАПИЛЬНИКИ**



| COD.     | L (inch) |   |  |
|----------|----------|---|--|
| AD636717 |          | 1 |  |
| AD636727 | 4        | 2 |  |
| AD636737 |          | 3 |  |
| AD636747 |          | 1 |  |
| AD636757 | 6        | 2 |  |
| AD636767 |          | 3 |  |
| AD636777 |          | 1 |  |
| AD636787 | 8        | 2 |  |
| AD636797 |          | 3 |  |
| AD636807 |          | 1 |  |
| AD636817 | 10       | 2 |  |
| AD636827 |          | 3 |  |
| AD636837 |          | 1 |  |
| AD636847 | 12       | 2 |  |
| AD636857 |          | 3 |  |
| AD636867 |          | 1 |  |
| AD636877 | 14       | 2 |  |
| AD636887 |          | 3 |  |

1: Basta / Bastard / Bâtarde  
 2: Entrefina / Medium / Demi-douce  
 3: Fina / Smooth / Douce

**ACO**

**LIMAS AFILADO / SHARPENING FILES / LIMES AIGUILLES / PRÄZISIONSNADELFEILEN DÜNN / LIMA AFFILATA / LIMAS DE AFIAZ, DE AGRICULTOR / ЗАТАЧИВАЮЩИЕ НАПИЛЬНИКИ**

**LIMA TRIANGULAR DELGADA / SLIM TAPER SAW / LIME TRIANGULAIRE ETROITE / PRÄZISIONSNADELFEILEN DÜNN / LIMA TRIANGOLARE / LIMAS TRIANGULARES FINAS / ТРЕУГОЛЬНЫЙ НАПИЛЬНИК**



| COD.     | L (inch) |   |
|----------|----------|---|
| AD636927 | 4        | 4 |
| AD636937 | 5        |   |

4: Extrafina / Very smooth / Extrafine

**LIMA TRIANGULAR EXTRA-DELGADA / EXTRA REGULAR TAPER SAW / LIME EXTRA FINE / DREIKANTFEILEN / LIMA TRIANGOLARE EXTRA-SOTTILE / LIMAS TRIANGULARES EXTRA-FINAS / МЕЛКИЙ ТРЕУГОЛЬНЫЙ НАПИЛЬНИК**



| COD.     | L (inch) |   |
|----------|----------|---|
| AD636967 | 4        | 4 |
| AD636977 | 5        |   |

4: Extrafina / Very smooth / Extrafine

**ESCOFINAS / RASPS / RAPES / SCHABER / RASPA / GROSAS / РАШПИЛИ**

**ESCOFINAS PLANAS PARALELAS / HAND WOOD RASPS / RÂPES PLATES PARALLÈLES / FLACH RAPS / RASPA PIATTA PARALLELA / GROSAS PARALELAS / РУЧНЫЕ РАШПИЛИ ПО ДЕРЕВУ**



| COD.     | L (inch) | W/cm |
|----------|----------|------|
| AD637007 | 10       | 3    |
| AD637017 | 12       |      |

**ESCOFINAS MEDIA CAÑA / HALF ROUND RASPS / RÂPES DEMI-RONDES / HALBRUND RAPS / RASPA MEZZOTANDA / GROSAS MEIA CANA / ПОЛУКРУГЛЫЙ РАШПИЛЬ**



| COD.     | L (inch) | W/cm |
|----------|----------|------|
| AD637067 | 6        |      |
| AD637077 | 8        | 3    |
| AD637087 | 10       |      |
| AD637097 | 12       |      |

**ESCOFINAS REDONDAS / ROUND RASPS / RAPES RONDES / RUNDE RAPS / RASPA TONDA / GROSAS REDONDAS / КРУГЛЫЕ РАШПИЛИ**



| COD.     | L (inch) | W/cm |
|----------|----------|------|
| AD637127 | 8        | 3    |
| AD637137 | 10       |      |

**BOTADORES CILINDRICOS / PIN PUNCHES / CHASSE GOUPILLES / DURCHSCHLÄGER / PUNZONE CILINDRICO / PUNÇÕES CILÍNDRICOS / ПРОБОЙНИКИ**

**CON MANGO / WITH HANDLE / CHASSE CLOU EMMENCHÉ / MIT GRIFF / CON MANICO / COM CABO / С РУКОЯТКОЙ**



| COD.     | Ø (mm) | L (mm) |
|----------|--------|--------|
| AD634477 | 2      | 165    |
| AD634487 | 3      | 175    |
| AD634497 | 4      | 185    |
| AD634517 | 6      | 200    |
| AD634537 | 8      | 210    |
| AD634557 | 10     | 220    |
| AD634567 | 12     | 230    |

**BOTADORES CÓNICOS / TAPER PUNCHES / CHASSE CLOU / KÖRNER / PUNZONE CONICO / PUNÇÕES CÓNICOS / КОНИЧЕСКИЕ ПРОБОЙНИКИ**

**CON MANGO / WITH HANDLE / AVEC MANCHE / MIT GRIFF / CON MANICO / COM CABO / С РУКОЯТКОЙ**



| COD.     | Ø (mm) | L (mm) |
|----------|--------|--------|
| AD634597 | 2      | 165    |

**GRANETE / CENTER PUNCHES / POINTEAUX / KÖRNER / PUNZONI / PUNÇÕES / МЕТЧИКИ**

**CON MANGO / WITH HANDLE / CHASSE CLOU EMMENCHÉ / MIT GRIFF / CON MANICO / COM CABO / С РУКОЯТКОЙ**



| COD.     | Ø (mm) | L (mm) |
|----------|--------|--------|
| AD634697 | 5      | 175    |

**ACO**

■ HERRAMIENTA PARA TUBO / PIPE TOOLS / OUTILLAGE TUBE / ROHR WERKZEUGE / FERRAMENTI PER TUBI / FERRAMENTA PARA TUBOS / ТРУБНЫЙ ИНСТРУМЕНТ

■ LLAVES PARA TUBO / PIPE WRENCHES / CLÉS SERRE-TUBES / EINHAND ROHRZANGE / CHIAVE GIRATUBI / CHAVES PARA TUBOS / ТРУБНЫЕ КЛЮЧИ

■ MASTERGRIP



| COD.     | L (inch) |
|----------|----------|
| AD614057 | 10       |
| AD614067 | 14       |
| AD614077 | 18       |



■ LLAVES STILLSON / STILLSON PIPE WRENCHES / CLÉS STILLSON / STILLSON ROHRZANGE / GIRATUBI MODELLO STILLSON / CHAVES STILLSON / ТРУБНЫЕ КЛЮЧИ STILLSON

■ REFORZADA / REINFORCED / RENFORCEE / VERSTARK / RINFORZATA / REFORÇADA / УСИЛЕННЫЕ



| COD.     | L (inch) |
|----------|----------|
| AD610017 | 8        |
| AD610027 | 10       |
| AD610037 | 12       |
| AD610047 | 14       |

UNE 16552 / BS 3594-1 / GGG-W-00651d

■ LLAVE HEAVY DUTY / HEAVY DUTY PIPE WRENCH / CLÉ SERRE-TUBES HEAVY DUTY / HEAVY DUTY ROHRZANGE / GIRATUBI MODELLO AMERICANO PESANTE / CHAVE HEAVY DUTY / ТРУБНЫЕ КЛЮЧИ ДЛЯ БОЛЬШИХ НАГРУЗОК



| COD.     | L (inch) |
|----------|----------|
| AD612997 | 6        |
| AD610147 | 8        |
| AD610157 | 10       |
| AD610167 | 12       |
| AD610177 | 14       |

GGG-W-651-E, Type II Class A

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Con pasador de seguridad / With safety pin / Avec goupille de fixation sécurisée

■ LLAVE DE ALUMINIO / ALUMINIUM PIPE WRENCH / CLÉ SERRE-TUBES EN ALLIAGE LEGER / ALUMINIUM ROHRZANGE / GIRATUBI MODELLO AMERICANO IM ALLUMINIO / CHAVE ALUMINIO / АЛЮМИНИЕВЫЕ ТРУБНЫЕ КЛЮЧИ

■ TITALUM®



| COD.     | L (inch) |
|----------|----------|
| AD610447 | 10       |
| AD610237 | 12       |
| AD610247 | 14       |
| AD610267 | 24       |

TITALUM® | GGG-W-651-E, Type II Class C

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Con pasador de seguridad / With safety pin / Avec goupille de fixation sécurisée

■ LLAVE REFINERÍA PARA TUBO Y VÁLVULAS / REFINERY PIPE AND VALVE WRENCH / CLÉ DE RAFFINERIE POUR TUBES ET VANNES / LEITUNG UND VENTIL SCHLÜSSEL F/ RAFFINERIE / GIRATUBO PER RAFFINERIA E VALVOLE / CHAVE DE REFINARIA PARA TUBO E VÁLVULAS / КОМБИНИРОВАННЫЙ ТРУБНЫЙ КЛЮЧ С МОЛОТКОМ И УХОМ ДЛЯ ЗАТЯЖКИ ВЕНТИЛЕЙ



| COD.     | L (inch) |
|----------|----------|
| AD575807 | 8        |
| AD575817 | 10       |
| AD575827 | 12       |

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Con pasador de seguridad / With safety pin / Avec goupille de fixation sécurisée

■ LLAVE SPUD / SPUD PIPE WRENCH / CLÉ SPUD / VERSTELLBARE ROHRZANGE / GIRATUBI MODELLO SPUD / CHAVE PARA TUBO SPUD / ТРУБНЫЙ КЛЮЧ С ПАРАЛЛЕЛЬНЫМИ ГУБКАМИ



| COD.     | L (inch) |
|----------|----------|
| AD613697 | 12       |

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Con pasador de seguridad / With safety pin / Avec goupille de fixation sécurisée

**ACO**

**LLAVE HEXAGONAL / HEX PIPE WRENCH / CLÉ HEXAGONALE / SECHSKANT ROHRZANGE / GIRATUBI HEXAGONALE / CHAVE PARA TUBO HEXAGONAL / ТРУБНЫЙ КЛЮЧ ДЛЯ ШЕСТИГРАННИКОВ**



| COD.     | L (inch) |
|----------|----------|
| AD613687 | 14.1/2   |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Con pasador de seguridad / With safety pin / Avec goupille de fixation sécurisée

**LLAVE HEXAGONAL CURVA / HEXAGONAL OFFSET PIPE WRENCH / CLÉ HEXAGONALE COUDÉE / GEKRÖPFTE ROHRZANGE / GIRATUBI HEXAGONALE CURVO / CHAVE HEXAGONAL INCLINADA / ИЗОГНУТЫЙ ТРУБНЫЙ КЛЮЧ ДЛЯ ШЕСТИГРАННИКОВ**



| COD.     | L (inch) |
|----------|----------|
| AD613677 | 9.1/2    |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Con pasador de seguridad / With safety pin / Avec goupille de fixation sécurisée

**LLAVE DE CADENA REVERSIBLE / REVERSIBLE CHAIN PIPE WRENCH / CLÉ À CHAÎNE RÉVERSIBLE / KETTENROHRZANGE / CHIAVE A CATENA REVERSIBILE / CHAVE CORRENTE REVERSIVEL / РЕВЕРСИВНЫЙ ЦЕПНОЙ КЛЮЧ**



| COD.     | L (mm) | L (inch) |
|----------|--------|----------|
| AD610357 | 300    | 12       |

**LLAVE DE CORREA / STRAP WRENCH / CLÉ À SANGLE / GURTRÖHRZANGE / GIRATUBI A NASTRO / CHAVE DE CORREIA / РЕМШКОВЫЙ КЛЮЧ**



| COD.     | CAP. (inch) |
|----------|-------------|
| AD614807 | 3           |
| AD614817 | 8           |
| AD614827 | 12          |

**TENAZA GRIP MULTIPOSICIÓN DE GRAN CAPACIDAD / MULTIPOSITION LARGE CAPACITY GRIP PLIER / PINCE ÉTAU GRANDE CAPACITÉ, MULTIPOSITIONS / GRIPZANGE FÜR GROSSE DURCHMESSER / PINZA AUTOBLOCCANTE A DOPPIA REGOLAZIONE / ALICATE DE GRIF MULTIPOSIÇÃO DE GRANDE CAPACIDADE / МНОГОПОЗИЦИОННЫЕ ЗАЖИМНЫЕ ЩИПЦЫ GRIP С БОЛЬШОЙ ЕМКОСТЬЮ**



| COD.     | L (inch) |
|----------|----------|
| AD620977 | 10       |

**TENAZA GRIP CORTACABLES / GRIP PLIER WITH WIRE CUTTER / PINCE ÉTAU À COUPE / GRIPZANGE MIT DRAHTSCHNEIDER / PINZE A MORSETTO TAGLIACAVI / ALICATE DE GRIF CORTA CABOS / КЛЕЩИ ДЛЯ СВАРКИ С РЕЗКОЙ ПРОВОДОВ**



| COD.     | L (inch) |
|----------|----------|
| AD621787 | 7        |
| AD621727 | 10       |

**BE SAFE...BE EFFICIENT**



**ACO**

**CORTE / CUTTING / OUTILS COUPANTS / SCHNEIDWERKZEUG / ARCHETTI / CORTE / РЕЗКА**

**CORTADORES DE SEGURIDAD CON CUCHILLA AUTO-RETRACTIL / SAFETY CUTTER WITH AUTO-RETRACTABLE BLADE / CUTTER DE SÉCURITÉ AVEC LAME AUTO-RÉTRACTABLE / SICHERHEITSMESSER MIT AUTOMATISCH EINZIEHBARER KLINGE / TAGLIERINO DI SICUREZZA CON LAMA AUTOMATICA - RETRAIBILE / X-ACTOS DE SEGURANÇA COM LÂMINA AUTO-RETRACTIL / БЕЗОПАСНЫЙ НОЖ С АВТОМАТИЧЕСКИ УБИРАЕМЫМ ЛЕЗВИЕМ**



| COD.     |  |
|----------|-----------------------------------------------------------------------------------|
| AD638767 | 0,6                                                                               |



| COD.     |  |
|----------|-----------------------------------------------------------------------------------|
| AD638777 | 0,6                                                                               |



| COD.     |  |
|----------|-------------------------------------------------------------------------------------|
| AD638787 | 0,6                                                                                 |

**ARCO DE SIERRA / HACK SAW / MONTURE DE SCIE À METAUX / METALLSÄGEBOGEN / ARCHETTI / ARCOS DE SERRA / НОЖОВКА**

**KRONOS 0° & 45° & 90°**



| COD.     |  |  |
|----------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| AD637427 | 12                                                                                 | 300                                                                                |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Aluminio / Aluminum / Aluminium

**TIJERAS PARA CHAPA / TIN SNIPS / CISAILLES À TOLE / BLECHSCHEREN / CESCOIE PER LAMIERA / TESOURA PARA CHAPA / НОЖИЦЫ ДЛЯ ЛИСТОВОГО МЕТАЛЛА**



| COD.     | L (inch) |
|----------|----------|
| AD622327 | 8        |
| AD621597 | 10       |
| AD622337 | 12       |
| AD622347 | 14       |

**CINCEL MECÁNICO / FLAT COLD CHISEL / BURIN MÉCANICIEN / FLACHMEIBEL / SCALPELLO PER MECCANICO / ESCOPRO MECÁNICO / ПЛОСКОЕ ЗУБИЛО**



| COD.     | L x W (mm) |
|----------|------------|
| AD628477 | 100 x 12   |
| AD628487 | 125 x 15   |
| AD628497 | 150 x 18   |
| AD628507 | 200 x 21   |
| AD628537 | 250 x 25   |



| COD.     | L x W (mm) |
|----------|------------|
| AD628657 | 250 x 25   |
| AD628677 | 300 x 25   |

**PUNTERO / POINTED CHISEL / BROCHE / SPITZMEISSEL / SCALPELLI PER MURATORI / PONTEIRO / КОНУСНОЕ ЗУБИЛО**



| COD.     | L x W (mm) |
|----------|------------|
| AD633407 | 250 x 16   |

**RASQUETA PARA JUNTAS / GASKET SCRAPER / GRATTOIR À JOINTS / DICHTUNGSSCHABER / RASCHIETTO PER GIUNTI / RASCADOR PARA JUNTAS / СКРЕБОК ДЛЯ УДАЛЕНИЯ ПРОКЛАДОК**



| COD.     | L (mm) |
|----------|--------|
| AD671957 | 260    |

**ACO**

■ **MARTILLOS / HAMMERS / MARTEAUX / HÄMMER / MARTELLI / MARTELOS / МОЛОТКИ И КУВАЛДЫ**

■ **MAZA DE CARAS OCTOGONALES / SLEDGE HAMMER / MASSE OCTOGONALE / STEINSLEGGER / MAZZA OTTOGONALE / MARRETA OCTOGONAL / КУВАЛДА КУЗНЕЧНАЯ**



| COD.     | Lb |
|----------|----|
| AD696507 | 4  |
| AD696517 | 6  |
| AD696527 | 8  |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer



| COD.     | Kg  |
|----------|-----|
| AD696627 | 0,7 |
| AD696637 | 1   |
| AD696647 | 1,4 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre de verre



| COD.     | Lb |
|----------|----|
| AD685307 | 4  |
| AD685327 | 8  |
| AD685337 | 10 |
| AD685347 | 12 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre de verre

■ **MACETA CUADRADA TIPO ALEMÁN / GERMAN TYPE MALLET / MASSETTE TYPE ALLEMAND / FÄUSTEL / MAZZETA / MARRETA / КУВАЛДА НЕМЕЦКИЙ ТИП ДЛЯ КАМНЯ**



| COD.     | Kg  |
|----------|-----|
| AD696667 | 0,8 |
| AD696677 | 1   |
| AD696697 | 1,5 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre de verre

■ **MACETA MOD. ESPAÑOL / SPANISH TYPE MALLET / MASSETTE ESPAGNOLE / FÄUSTEL / MAZZETA MOD. SPAGNOLO / MARRETA MOD. ESPANHOL / КУВАЛДА ИСПАНСКИЙ ТИП ДЛЯ КАМНЯ**



| COD.     | Kg |
|----------|----|
| AD696607 | 1  |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer

■ **MACETA MODELO INGLÉS / BRITISH TYPE MALLET / MASSETTE TYPE ANGLAIS / FÄUSTEL / MAZZETA MOD. INGLES / MARRETA MOD. INGLES / КУВАЛДА БРИТАНСКИЙ ТИП ДЛЯ КАМНЯ**



| COD.     | Lb  |
|----------|-----|
| AD696737 | 2,5 |
| AD696747 | 3   |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre de verre

**ACO**

**MARTILLO ALEMÁN / GERMAN TYPE MACHINIST'S HAMMER / MARTEAU DE MECANICIEN / SCHLOSSERHAMMER, DEUTSCHE FORM / MARTELLO TEDESCO / MARTELO TIPO ALEMÃO / СЛЕСАРНЫЙ МОЛОТОК НЕМЕЦКИЙ ТИП**




| COD.     |  |
|----------|-----------------------------------------------------------------------------------|
| AD697317 | 200                                                                               |
| AD697327 | 300                                                                               |
| AD697337 | 400                                                                               |
| AD697347 | 500                                                                               |
| AD697357 | 600                                                                               |
| AD697367 | 800                                                                               |
| AD697377 | 1000                                                                              |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre de verre

**MARTILLO DE EBANISTA / JOINER'S HAMMER / MARTEAU DE MENUISIER / HOLZSCHNITZERHAMMER / MARTELLO FALEGNAME / MARTELO DE PENA / СТОЛЯРНЫЙ МОЛОТОК**




| COD.     |  |
|----------|-------------------------------------------------------------------------------------|
| AD696847 | 150                                                                                 |
| AD696857 | 200                                                                                 |
| AD696867 | 250                                                                                 |
| AD696877 | 350                                                                                 |
| AD696887 | 450                                                                                 |
| AD696897 | 550                                                                                 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre de verre

**MARTILLO RIVOIR / FRENCH TYPE MACHINIST'S HAMMER / MARTEAU RIVOIR / RIVOIR HAMMER / MARTELLO RIVOIR / MARTELO PENA TIPO RIVOIR / СЛЕСАРНЫЙ МОЛОТОК ФРАНЦУЗСКИЙ ТИП**




| COD.     |  |
|----------|-------------------------------------------------------------------------------------|
| AD697387 | 250                                                                                 |
| AD697397 | 375                                                                                 |
| AD697407 | 675                                                                                 |
| AD697417 | 900                                                                                 |
| AD697567 | 1100                                                                                |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre de verre

**MARTILLO DE BOLA / BALL PEIN HAMMER / MARTEAU À BOULE / SCHLOSSERHAMMER, ENGLISCHE FORM / MARTELLO A PALLA / MARTELO DE BOLA / МОЛОТОК С ШАРОВОЙ ГОЛОВКОЙ**




| COD.     |  |
|----------|-------------------------------------------------------------------------------------|
| AD697047 | 250                                                                                 |
| AD697057 | 350                                                                                 |
| AD697067 | 500                                                                                 |
| AD697077 | 700                                                                                 |
| AD697087 | 1000                                                                                |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre de verre

**MARTILLO DE ENCOFRADOR / SPANISH TYPE CLAW HAMMER / MARTEAU DE COFFREUR / KLAUENHAMMER / MARTELLO CARPENTIERE / MARTELO DE COFRADOR / МОЛОТОК-ГВОЗДОДЕР ИСПАНСКИЙ ТИП**



| COD.     |  |
|----------|---------------------------------------------------------------------------------------|
| AD697157 | 300                                                                                   |
| AD697167 | 400                                                                                   |
| AD697177 | 500                                                                                   |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre de verre

**MARTILLO DE UÑA / CLAW HAMMER / MARTEAU DE CHARPENTIER / KLAUENHAMMER / MARTELLO CARPENTIERE / MARTELO DE UNHA / МОЛОТОК-ГВОЗДОДЕР**



| COD.     |  |
|----------|---------------------------------------------------------------------------------------|
| AD697197 | 550                                                                                   |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre de verre

**ACO**

MARTILLO DE UÑA MODELO AMERICANO / AMERICAN CLAW HAMMER / MARTEAU DE CHARPENTIER MODÈLE AMÉRICAIN / KLAUENHAMMER / MARTELLO CARPENTIERE / MARTELO DE UNHA MOD. AMERICANO / МОЛОТОК-ГВОЗДОДЕР АМЕРИКАНСКИЙ ТИП




| COD.     |  |
|----------|-----------------------------------------------------------------------------------|
| AD697437 | 250                                                                               |
| AD697447 | 350                                                                               |
| AD697457 | 450                                                                               |
| AD697467 | 525                                                                               |
| AD697477 | 600                                                                               |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre de verre

PICO DE CALDERERO / CHIPPING HAMMER / PIOCHE DE CHAUDRONNIER / KESSELSTEINHAMMER / PICCONE DA BATTIRAME / PICADEIRA DE CALDEREIRO / МОЛОТОК ВЫРУБНОЙ



| COD.     |  |
|----------|-------------------------------------------------------------------------------------|
| AD696787 | 500                                                                                 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer

■ CONSTRUCCIÓN / CONSTRUCTION / CONSTRUCTION / BAUWESEN / COSTRUZIONI / CONSTRUÇÃO / СТРОИТЕЛЬСТВО

■ PALANCA BOCA CURVA / PRY BAR / PINCE À TALON COURBE / BRECHSTANGE, GESCHLOSSER / LEVA UNGHIA CHIUSA / ALAVANCA BOCA CURVA / КРЮК



| COD.     | L (inch) |
|----------|----------|
| AD672047 | 16       |

■ MEDICIÓN Y DETECCIÓN / MEASURING AND DETECTION / MESURE ET DÉTECTION / MESSTECHNIK UND DETEKTION / MISURAZIONE E RILEVAMENTO / MEDIÇÃO E DETECÇÃO / ИЗМЕРЕНИЕ И ОПРЕДЕЛЕНИЕ

■ FLEXÓMETROS / MEASURING TAPES / MÈTRES À RUBAN / STAHLROLLBANDMASSE / FLESSOMETRI / FITAS METRICAS / РУЛЕТКИ

■ ROBUST II



| COD.     |  |  |
|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| AD651657 | 25                                                                                  | 5                                                                                   |

■ ANTICHISPA / NON-SPARKING / ANTIDÉFLAGRANT / FUNKENFREI / ANTISCINTILLA / ANTIDÉFLAGRANT / ИСКРБЕЗОПАСНЫЙ

■ MACETA OCTOGONAL / SLEDGE Mallet / MASSETTE OCTOGONALE / SCHLAGHAMMER / MAZZETTA OTTOGONALE / MARRETA OCTOGONAL / КУВАЛДА



| COD.     |  |
|----------|-------------------------------------------------------------------------------------|
| AD358867 | 3                                                                                   |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Al-Bron

Madera de nogal / Hickory wood / Bois de noyer

| COD.     |  |
|----------|-------------------------------------------------------------------------------------|
| AD359707 | 3                                                                                   |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Latón / Brass / Laiton

Madera de nogal / Hickory wood / Bois de noyer



| COD.     |  |
|----------|---------------------------------------------------------------------------------------|
| AD705047 | 2                                                                                     |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cu-Be

Fibra de vidrio / Fiberglass / Fibre de verre

■ PALANCA DE ENCOFRADOR / WRECKING BAR / PINCE À DECOFFRER / NAGELEISEN / LEVERINO CARPENTIERE / ALAVANCAS DE ENCOFRADOR / МОНТИРОВКА



| COD.     | L (inch) |
|----------|----------|
| AD632627 | 18       |

**ACO**

**NIVELES / SPIRIT LEVELS / NIVEAUX / WASSERWAAGEN / LIVELLE / NIVEIS /**  
**ЖИДКОСТНОЙ УРОВЕНЬ**

**TUBULAR MAGNÉTICO DE PRECISIÓN 1MM-M / 1MM-M ACCURACY MAGNETIC SPIRIT**  
**LEVEL / NIVEAU TUBULAIRE DE PRECISION 1MM-M MAGNETIQUE / MAGNETISCHE**  
**WASSERWAGEN 1MM-M ACCURAT / LIVELLA MAGNETICA TUBOLARE DI PRECISIONE**  
**1MM-M / NIVEL TUBULAR DE PRECISÃO 1MM-M MAGNETICO / МАГНИТНЫЕ**  
**ЖИДКОСТНЫЕ УРОВНИ С ТОЧНОСТЬЮ 1MM-M**



| COD.     | L (mm) | Precisión / Accuracy / Précision |
|----------|--------|----------------------------------|
| AD651457 | 400    | 1 mm/m                           |

**MAGNET C**

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Aluminio / Aluminum / Aluminium

**TUBULAR DE PRECISIÓN 1MM-M ESCALA GRADUADA / GRADUATED SCALE 1MM-M**  
**ACCURACY SPIRIT LEVEL / NIVEAU TUBULAIRE DE PRECISION 1MM-M ECHELLE**  
**GRADUEE / GRADUAL WASSERWAGEN 1MM-M ACCURAT / LIVELLA TUBOLARE DI**  
**PRECISIONE CON SCALA GRADUATA 1MM-M / NIVEL TUBULAR DE PRECISÃO 1MM-M**  
**ESCALA GRADUADA / ГРАДУИРОВАННАЯ ШКАЛА С ЖИДКОСТНЫМ УРОВНЕМ**  
**1MM-M**



| COD.     | L (mm) | Precisión / Accuracy / Précision |
|----------|--------|----------------------------------|
| AD651487 | 300    | 1 mm/m                           |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Aluminio / Aluminum / Aluminium

**TORPEDO / TORPEDO / TORPILLE / TORPEDO WASSERWAGEN / LIVELLA TORPEDO /**  
**NIVEL TORPEDO / ТОРПЕДО**



| COD.     | L (mm) | Precisión / Accuracy / Précision |
|----------|--------|----------------------------------|
| AD651587 | 220    | 1 mm/m                           |

**MAGNET C**

**BUSCAPOLOS / VOLTAGE TESTER / TESTEUR / SPANNUNGSPRÜFER / CERCAFASE /**  
**BUSCA-POLOS / ИЗМЕРИТЕЛЬ НАПРЯЖЕНИЯ**



| COD.     | V       | L (mm) |
|----------|---------|--------|
| AD660737 | 100-250 | 190    |

**GALGAS PARA ROSCAS / THREAD PITCH GAUGES / JAUGE POUR FILETAGE /**  
**GEWINDESCHABLONEN / GALGAS PARA ROSCAS / CONTA FIOS DE ROSCA /**  
**ИЗМЕРИТЕЛИ РЕЗЬБЫ**



| COD.     | N.º Hojas / No. Blades / Nro. Lames |
|----------|-------------------------------------|
| AD655717 | 24                                  |



| COD.     | N.º Hojas / No. Blades / Nro. Lames |
|----------|-------------------------------------|
| AD655767 | 12                                  |

**GALGAS DE ESPESORES DE PRECISIÓN / PRECISION FEELER GAUGE / JAUGES**  
**D'ÉPAISSEUR DE PRÉCISION / PRÄZISION FÜHLERLEHREFÄCHER / SPESIMETRI DI**  
**PRECISIONE / APALPA FOLGAS DE PRECISÃO / СВЕРХТОЧНЫЕ ЩУПЫ В КОПУСЕ**



| COD.     | N.º Hojas / No. Blades / Nro. Lames |
|----------|-------------------------------------|
| AD655707 | 32                                  |

**AGUJAS DE TRAZAR / SCRIBER / POINTE À TRACER / REISSNADEL / PUNTA PER**  
**TRACCIARE / RISCADORES DE TRAÇAR / ШТИХЕЛЬ**




| COD.     | L (mm) |                              |
|----------|--------|------------------------------|
| AD656027 | 175    | Moletado / Knurled / Moletée |
| AD656047 | 230    |                              |
| AD656037 | 250    |                              |

ACO

ILUMINACIÓN / LIGHTING / ÉCLAIRAGE / BELEUCHTUNG / ILLUMINAZIONE / ILUMINAÇÃO / ОСВЕЩЕНИЕ

LINTERNA DE BOLSILLO / LED POCKET FLASHLIGHT / LAMPE DE POCHE / LED-TASCHENLAMPE / TORCIA DI TASCA / LANTERNA DE BOLSO / КАРМАННЫЙ СВЕТОДИОДНЫЙ ФОНАРИК

| COD.     | LED      | LUMENS |  |
|----------|----------|--------|-----------------------------------------------------------------------------------|
| AD586417 | CREE XPG | 100    | 57                                                                                |



ANTIDROP AISLADA 1000V / INSULATED ANTIDROP 1000V / ANTIDROP ISOLÉS 1000V / ANTIDROP 1000V ISOLIERT / ANTI-CADUTA ISOLATA 1000V / ANTIDROP ISOLADA 1000V / ПРОТИВОУДАРНЫЙ ИЗОЛИРУЮЩИЙ 1000V

ALICATES / PLIERS / PINCES / ZANGEN / PINZE / ALICATES / ПЛОСКОГУБЦЫ

TITACROM® BIMAT 1000V

UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALE / UNIVERSAIS / КОМБИНИРОВАННЫЕ



| COD.     | L (mm) |
|----------|--------|
| AD765827 | 165    |
| AD765837 | 180    |
| AD765847 | 200    |

TITACROM® BIMAT   1000V | IEC 60900 | DIN 5746

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

BOCA PLANA / FLAT NOSE / BECS PLATS / FLACHZANGEN / BECCHI PIATTI / PONTAS CHATAS / УТКОНОСЫ



| COD.     | L (mm) |
|----------|--------|
| AD765897 | 160    |

TITACROM® BIMAT   1000V | IEC 60900 | DIN 5745

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

BOCA REDONDA / ROUND NOSE / BECS RONDOS / RUNDZANGEN / BECCHI TONDI / PONTAS REDONDAS / КРУГЛОГУБЦЫ



| COD.     | L (mm) |
|----------|--------|
| AD765907 | 160    |

TITACROM® BIMAT   1000V | IEC 60900 | DIN 5745

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

TELEFONISTA / LONG NOSE / TÉLÉPHONE / TELEFONZANGEN / TELEFONISTI / TELEFONISTA / С УДЛИННЕННЫМИ НОСАМИ



| COD.     | L (mm) |
|----------|--------|
| AD765917 | 160    |
| AD765927 | 200    |

TITACROM® BIMAT   1000V | IEC 60900 | DIN 5745

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

TELEFONISTA BOCA CURVA / BENT NOSE PLIERS / TÉLÉPHONE BECS COUDÉS / TELEFONZANGEN GEBOGEN / TELEFONISTI BECCHI PIEGATI / TELEFONISTA PONTAS CURVAS / С ИЗОГНУТЫМИ НОСАМИ



| COD.     | L (mm) |
|----------|--------|
| AD765937 | 160    |
| AD765947 | 200    |

TITACROM® BIMAT   1000V | IEC 60900 | DIN 5745



CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

CORTE DIAGONAL / DIAGONAL CUTTING PLIERS / COUPANTES DIAGONALES / SEITENSCHNEIDER / TAGLIO LATERALE / CORTE DIAGONAL / УДЛИННЕННЫЕ ТОНКИЕ



| COD.     | L (mm) |
|----------|--------|
| AD765957 | 160    |
| AD765967 | 190    |

TITACROM® BIMAT   1000V | IEC 60900 | DIN 5749

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

**ACO**

**CORTE DIAGONAL REFORZADO / HEAVY DUTY CUTTING NIPPERS / COUPANTES RENFORCÉS / VERSTÄRKTER SEITENSCHNEIDER / TAGLIO LATERALE RINFORZATO / CORTE DIAGONAL REFORÇADO / УСИЛЕННЫЕ БОКОРЕЗЫ**



| COD.     | L (mm) |
|----------|--------|
| AD765977 | 180    |
| AD765987 | 200    |

**TITACROM® Bimat** 1000V | IEC 60900 | DIN 5749

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**CORTE FRONTAL / END CUTTING NIPPER / COUPANTES DEVANT / VORSCHNEIDER / TAGLIO FRONTALE / CORTE FRONTAL / КЛЕЩИ**



| COD.     | L (mm) |
|----------|--------|
| AD765997 | 160    |

**TITACROM® Bimat** 1000V | IEC 60900 | DIN 5748

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**CORTE FRONTAL ELECTRICISTA / END CUTTING NIPPER (ELECTRICIAN) / COUPANTES DEVANT ELECTRICIEN / ELEKTRIKER VORSCHNEIDER / TAGLIO FRONTALE PER ELETTRICISTI / CORTE FRONTAL ELETTRICISTA / КЛЕЩИ (ЭЛЕКТРИЧЕСКИЕ)**



| COD.     | L (mm) |
|----------|--------|
| AD766007 | 160    |
| AD766027 | 200    |

**TITACROM® Bimat** 1000V | IEC 60900 | DIN 5748

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**PELACABLES / WIRESTRIPPER / PINCES À DÉNUDER / ABISOLIERZANGEN / PINZE SPELAFILI / DECAPADORES / КЛЕЩИ ДЛЯ ЗАЧИСТКИ КОНТАКТОВ**



| COD.     | L (mm) |
|----------|--------|
| AD766037 | 160    |

**TITACROM® Bimat** 1000V | IEC 60900 | DIN 5743

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**MASTERCUT TITACROM® BIMAT 1000V**

**UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALI / UNIVERSAIS / КОМБИНИРОВАННЫЕ**



| COD.     | L (mm) |
|----------|--------|
| AD766067 | 165    |
| AD766077 | 180    |
| AD766097 | 210    |

**TITACROM® Bimat** 1000V | IEC 60900 | DIN 5746

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V



| COD.     | L (mm) |
|----------|--------|
| AD766117 | 235    |

**TITACROM® Bimat** 1000V | IEC 60900 | DIN 5746

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**TELEFONISTA / LONG NOSE / TÉLÉPHONE / TELEFONZANGEN / TELEFONISTI / TELEFONISTA / С УДЛИННЕННЫМИ НОСАМИ**



| COD.     | L (mm) |
|----------|--------|
| AD766127 | 160    |
| AD766137 | 200    |

**TITACROM® Bimat** 1000V | IEC 60900 | DIN 5745

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

**TELEFONISTA BOCA CURVA / BENT NOSE PLIERS / TÉLÉPHONE BECS COUDÉS / TELEFONZANGEN GEBOGEN / TELEFONISTI BECCHI PIEGATI / TELEFONISTA PONTAS CURVAS / С ИЗОГНУТЫМИ НОСАМИ**



| COD.     | L (mm) |
|----------|--------|
| AD766147 | 160    |
| AD766157 | 200    |

**TITACROM® Bimat** 1000V | IEC 60900 | DIN 5745

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Cr-V

• Para más información de dimensiones y características del producto, consultar en el capítulo correspondiente del catálogo general o en [www.egamaster.com](http://www.egamaster.com). / For more details about features and dimensions of the products, check the corresponding chapter of the General Catalogue or [www.egamaster.com](http://www.egamaster.com). / Pour plus d'informations sur les dimensions et les caractéristiques du produit, consulter le chapitre correspondant de notre catalogue général ou sur [www.egamaster.com](http://www.egamaster.com).

**ACO**

**CORTE DIAGONAL / DIAGONAL CUTTING PLIERS / COUPANTES DIAGONALES / SEITENSCHNEIDER / TAGLIO LATERALE / CORTE DIAGONAL / УДЛИНЕННЫЕ ТОНКИЕ**



| COD.     | L (mm) |
|----------|--------|
| AD766167 | 160    |
| AD766177 | 190    |

TITACROM<sup>®</sup> ВМАТ 1000V | IEC 60900 | DIN 5749

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

**CORTE DIAGONAL REFORZADO / HEAVY DUTY CUTTING NIPPERS / COUPANTES RENFORCÉES / VERSTÄRKTER SEITENSCHNEIDER / TAGLIO LATERALE RINFORZATO / CORTE DIAGONAL REFORÇADO / УСИЛЕННЫЕ БОКОРЕЗЫ**



| COD.     | L (mm) |
|----------|--------|
| AD766187 | 180    |
| AD766197 | 200    |

TITACROM<sup>®</sup> ВМАТ 1000V | IEC 60900 | DIN 5749

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cr-V

**ELECTRICIDAD / ELECTRICIAN TOOLS / OUTILLAGE D'ÉLECTRICIEN / WERKZEUGE FÜR ELEKTRIKER / UTENSILI PER ELETTRICISTI / ELECTRICIDADE / ИНСТРУМЕНТ ДЛЯ ЭЛЕКТРИКОВ**

**ALICATE PARA UNIÓN DE CABLES AISLADOS Y NO AISLADOS / PLIER FOR CABLE LINKS INSULATED & NON INSULATED / PINCE POUR UNION DE CABLES ISOLES ET NON ISOLES / ZANGE FÜR ISOLIERTE UND NICHT ISOLIERTE KABELSCHUHE / PINZE PER UNIRE CAVI ISOLATI E NON ISOLATI / ALICATE PARA UNIÃO DE CABOS ISOLADOS E NÃO ISOLADOS / КЛЕЩИ ДЛЯ ИЗОЛИРОВАННЫХ И НЕИЗОЛИРОВАННЫХ КОНТАКТОВ**



| COD.     | L (mm) |
|----------|--------|
| AD732577 | 230    |

**ALICATE DE PRESIÓN / PRESSURE PLIER / PINCE DE PRÉHENSION / KLEMMZANGE / PINZA A PRESSIONE / ALICATE TIPO UNIVERSAL ISOLADO / СЖИМАЮЩИЕ КЛЕЩИ**



| COD.     | L (mm) |
|----------|--------|
| AD732487 | 150    |

1000V | IEC 60900

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Para el montaje y bloqueo de contadores / For meter assembly and meter blocking / Conçue pour le montage et le verrouillage des compteurs

**GRAPA / INSULATING CLAMP / AGRAFE / KLEMMZANGE ISOLIERT / MORSETTO ISOLATO / GRAMPO ISOLADO / ИЗОЛИРОВАННЫЕ КЛЕЩИ**



| COD.     | L (mm) |
|----------|--------|
| AD732497 | 150    |

1000V | IEC 60900

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Para sujeción de las mantas aislantes / For holding insulating mats in place / Pour fixer des nappes isolantes

**CORTACABLES DE CARRACA / RATCHET ELECTRICIAN CABLE CUTTER / COUPE-CABLES À CLIQUET / KABELSCHNEIDER MIT RATSCHER / TAGLIACAVI CRICCO PER ELETTRICI / CORTA CABOS DE ROQUETE PARA ELETRICISTA / КАБЕЛЕРЕЗЫ С ТРЕЩЕТОЧНЫМ МЕХАНИЗМОМ**



| COD.     | L (mm) | O.D. mm |
|----------|--------|---------|
| AD730107 | 260    | 32      |
| AD730117 | 380    | 52      |

1000V | IEC 60900



**ACO**

**TIJERAS / TIN SNIPS / CISAILLES / BLECHSCHERE / FORBICI / TESOURAS / НОЖНИЦЫ ДЛЯ ЖЕСТИ**



| COD.            | L (mm) |
|-----------------|--------|
| <b>AD790577</b> | 160    |

⚡ 1000V | IEC 60900



| COD.            | L (mm) |
|-----------------|--------|
| <b>AD790587</b> | 160    |

⚡ 1000V | IEC 60900

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**  
 Muesca pequeña / Small breach / Petite brèche



| COD.            | L (mm) |
|-----------------|--------|
| <b>AD790597</b> | 160    |

⚡ 1000V | IEC 60900

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**  
 Muesca grande / Big breach / Grande brèche

**PELACABLES / CABLE STRIPPER / PINCES À DÉNUDER / ABISOLIERZANGE / SPELACAVI / DECAPADOR DE CABOS / СТРИПЕР**



| COD.            | O.D. mm |
|-----------------|---------|
| <b>AD730887</b> | 25-45   |

⚡ 1000V | IEC 60900

**CUCHILLOS / KNIVES / COUTEAUX / MESSER / LAME / FACIA / НОЖИ**



| COD.            | L (mm) |
|-----------------|--------|
| <b>AD730357</b> | 170    |

⚡ 1000V | IEC 60900

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**  
 Recto / Straight / Droit



| COD.            | L (mm) |
|-----------------|--------|
| <b>AD730367</b> | 180    |

⚡ 1000V | IEC 60900

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**  
 Curvo / Curved / Coudé

**TENAZAS / PINCERS / PINCES / ZANGE / TENAGLIE / ALICATES / КЛЕЩИ**

**DE CANAL / BOX JOINT / MULTIPRISE ENTREPASSÉE / WASSERPUMPENZANGE / PINZE REGOLABILI / BICO DE PAPAGAIO / КЛЕЩИ ШАРНИРНЫЕ**



| COD.            | L (inch) |
|-----------------|----------|
| <b>AD730047</b> | 10       |
| <b>AD730057</b> | 12       |

⚡ 1000V | IEC 60900

**PICO DE LORO / GROOVE JOINT / MULTIPRISE À CRÉMAILLÈRE / WASSERPUMPENZANGE / PINZE REGOLABILI / BICO DE PAPAGAIO / КЛЕЩИ ЖЕЛБКОВОГО ТИПА**



| COD.            | L (inch) |
|-----------------|----------|
| <b>AD730017</b> | 10       |

⚡ 1000V | IEC 60900

**TENAZAS CORTACABLES / CABLE CUTTERS / COUPE-CABLES / KABELSCHNEIDER / CESCOIE PER CAVI / TESOURAS CORTA CABOS / КАБЕЛЕРЕЗЫ**



| COD.            | L (mm) |
|-----------------|--------|
| <b>AD761477</b> | 150    |

⚡ 1000V | IEC 60900

**ACO**



| COD.     | L (mm) |
|----------|--------|
| AD730087 | 250    |

⚡ 1000V | IEC 60900



| COD.     | L (mm) |
|----------|--------|
| AD730097 | 600    |

⚡ 1000V | IEC 60900

**CORTAVARILLAS / BOLT CUTTERS / COUPE-BOULONS / BOLZENSCHNEIDER / TAGLIABULLONI / CORTA VARÃO / АРМАТУРНЫЕ НОЖНИЦЫ**



| COD.     | L (inch) |
|----------|----------|
| AD730207 | 18       |
| AD730217 | 24       |

⚡ 1000V | IEC 60900

**CORTATUBOS PARA TUBO DE PLÁSTICO / PLASTIC PIPE CUTTER / COUPE-TUBE PLASTIQUE / KUNSTSTOFFROHRSCHERE / SESOIA PER TUBI DI PLASTICA / TESOURA PARA TUBO DE PLASTICO / ТРУБОРЕЗ ДЛЯ ПЛАСТИКА**

**PIRAINA®**



| COD.     | O.D. mm |
|----------|---------|
| AD761457 | 64      |

⚡ 1000V | IEC 60900

**CORTABRIDAS / PLASTIC TIE CUTTER / PINCE COUPE COLLIERS PLASTIQUES / KABELBINDER SCHNEIDER / PINZA TAGLIA FASCETTE IN NYLON / CORTA-ABRAÇADEIRA / РЕЗАК ДЛЯ ПЛАСТИКОВЫХ ХОМУТОВ**



| COD.     | L (mm) |
|----------|--------|
| AD730427 | 150    |

⚡ 1000V | IEC 60900 | RCD N° 2029504

**LLAVE HEAVY DUTY CURVA / OFFSET HEAVY DUTY PIPE WRENCH / CLÉ SERRE-TUBES HEAVY DUTY COUDEE / GEKRÖPFTE ROHRZANGE / GIRATUBI MODELLO AMERICANO CURVO / CHAVE HEAVY DUTY INCLINADA / ИЗОГНУТЫЕ ТРУБНЫЕ КЛЮЧИ ДЛЯ БОЛЬШИХ НАГРУЗОК**



| COD.     | L (inch) |
|----------|----------|
| AD767587 | 8        |
| AD767597 | 10       |
| AD767607 | 12       |
| AD767617 | 14       |
| AD767627 | 18       |

⚡ 1000V | IEC 60900

**LLAVES AJUSTABLES / ADJUSTABLE WRENCHES / CLÉS À MOLETTE / ROLLGABELSCHLÜSSEL / CHIAVI REGOLABILI A RULLINO / CHAVES AJUSTAVELS / РАЗВОДНЫЕ КЛЮЧИ**

**TITACROM®**



| COD.     | L (inch) | L (mm) |
|----------|----------|--------|
| AD765507 | 6        | 150    |
| AD765517 | 8        | 200    |
| AD765527 | 10       | 250    |
| AD765537 | 12       | 300    |

TITACROM® ⚡ 1000V | IEC 60900

**FOSFATADA / PHOSPHATED / PHOSPHATÉE BRUNIE / PHOSPHATIERT / FINITURA BRUNITA / BRUNIDA / ЧЕРНЕННЫЙ**



| COD.     | L (inch) | L (mm) |
|----------|----------|--------|
| AD765547 | 6        | 150    |
| AD765557 | 8        | 200    |
| AD765567 | 10       | 250    |
| AD765577 | 12       | 300    |

⚡ 1000V | IEC 60900

**ACO**

**MOLETA LATERAL / LATERAL NUT / MOLETTE LATÉRALE / MIT SCHNECKENROLLE / RULLINO LATERALE / MOLETA LATERAL / РИГУЛИРОВОЧНАЯ ШАЙБА**



**TITACROM®**



| COD.     | L (inch) | L (mm) |
|----------|----------|--------|
| AD765787 | 6        | 150    |
| AD765807 | 10       | 250    |
| AD765817 | 12       | 300    |

**TITACROM®**  $\Delta$  1000V | IEC 60900



| COD.     | L (inch) | L (mm) |
|----------|----------|--------|
| AD794727 | 12       | 300    |

$\Delta$  1000V | IEC 60900

**LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ**

**FIJA DE UNA BOCA / SINGLE ENDED OPEN JAW SPANNER / À FOURCHE / EINMAULSCHLÜSSEL / FISSE SEMPLICE / FIXA DE UMA BOCA / ОДНОРОЖКОВЫЙ КЛЮЧ**

**MM**



| COD.     | AF mm |
|----------|-------|
| AD730867 | 5,5   |
| AD730607 | 6     |
| AD730617 | 7     |
| AD730627 | 8     |
| AD730637 | 9     |
| AD730647 | 10    |
| AD730657 | 11    |
| AD730667 | 12    |
| AD730677 | 13    |
| AD730687 | 14    |
| AD730697 | 15    |
| AD730707 | 16    |
| AD730717 | 17    |
| AD730727 | 18    |
| AD730737 | 19    |
| AD730747 | 20    |
| AD730757 | 21    |
| AD730767 | 22    |
| AD730787 | 23    |
| AD730777 | 24    |
| AD730797 | 27    |

COD.



|          |    |
|----------|----|
| AD730807 | 28 |
| AD730817 | 29 |
| AD730827 | 30 |
| AD730837 | 32 |

$\Delta$  1000V | IEC 60900

**INCH**



COD.



|          |       |
|----------|-------|
| AD730437 | 1/4   |
| AD730447 | 9/32  |
| AD730457 | 5/16  |
| AD730467 | 3/8   |
| AD730477 | 7/16  |
| AD730487 | 1/2   |
| AD730497 | 9/16  |
| AD730507 | 5/8   |
| AD730517 | 11/16 |
| AD730527 | 3/4   |
| AD730537 | 13/16 |
| AD730547 | 7/8   |
| AD730557 | 15/16 |

$\Delta$  1000V | IEC 60900

**LLAVE DE ESTRELLA ACODADA UNA BOCA / OFFSET RING WRENCH / CLÉ POLYGONALE CONTRE-COUDÉE / GEKRÖPFTE RINGSCHLÜSSEL / CHIAVE POLIGONALE AD UNA BOCCA / CHAVE DE LUNETAS INCLINADA / КЛЮЧ ИЗОГНУТАЯ ЗВЕЗДОЧКА**

**MM**



COD.



|          |    |
|----------|----|
| AD730907 | 6  |
| AD730917 | 7  |
| AD730927 | 8  |
| AD730937 | 9  |
| AD730947 | 10 |
| AD730957 | 11 |
| AD730967 | 12 |
| AD730977 | 13 |
| AD730987 | 14 |
| AD730997 | 15 |
| AD731007 | 16 |
| AD731017 | 17 |
| AD731027 | 18 |
| AD731037 | 19 |
| AD731057 | 21 |
| AD731067 | 22 |
| AD731077 | 23 |
| AD731087 | 24 |
| AD731097 | 26 |
| AD731107 | 27 |

• Para más información de dimensiones y características del producto, consultar en el capítulo correspondiente del catálogo general o en [www.egamaster.com](http://www.egamaster.com). / For more details about features and dimensions of the products, check the corresponding chapter of the General Catalogue or [www.egamaster.com](http://www.egamaster.com). / Pour plus d'informations sur les dimensions et les caractéristiques du produit, consulter le chapitre correspondant de notre catalogue général ou sur [www.egamaster.com](http://www.egamaster.com).

**ACO**

| COD.     | AF mm |
|----------|-------|
| AD731117 | 28    |
| AD731127 | 29    |
| AD731137 | 30    |
| AD731147 | 32    |
| AD731157 | 36    |
| AD731167 | 38    |
| AD731177 | 41    |
| AD731187 | 42    |
| AD731197 | 46    |
| AD731047 | 50    |

1000V I IEC 60900

INCH



| COD.     | AF inch |
|----------|---------|
| AD733477 | 1/4     |
| AD733487 | 5/16    |
| AD733497 | 3/8     |
| AD733507 | 7/16    |
| AD733517 | 1/2     |
| AD733527 | 9/16    |
| AD733537 | 5/8     |
| AD733547 | 11/16   |
| AD733557 | 3/4     |
| AD733567 | 13/16   |
| AD733577 | 7/8     |
| AD733587 | 15/16   |
| AD733597 | 1       |
| AD733607 | 1.1/16  |
| AD733617 | 1.1/8   |
| AD733637 | 1.1/4   |

1000V I IEC 60900

LLAVE DE ESTRELLA DE CARRACA PLANA / RING RATCHET / POLYGONALE À CLIQUET /  
 KNARRE RINGSCHÜSSEL / CHIAVE POLIGONALE PIATTA CON CRICCO / CHAVE DE  
 LUNETA COM ROQUETE PLANA / ЗВЕЗДОЧКА С ТРЕЩЕТКОЙ

MM



| COD.     | AF mm |
|----------|-------|
| AD731457 | 10    |
| AD731477 | 13    |
| AD731507 | 17    |
| AD731527 | 19    |

1000V I IEC 60900

LLAVE DE ESTRELLA INCLINADA UNA BOCA / ANGLE RING WRENCH / CLÉ  
 POLYGONALE DROITE / GEBOGEN RINGSCHLÜSSEL / CHIAVE A STELLA INCLINATA /  
 CHAVE LUA / КЛЮЧ ЗВЕЗДОЧКА ИЗГНУТАЯ

MM



| COD.     | AF mm |
|----------|-------|
| AD731207 | 8     |
| AD731217 | 9     |
| AD731227 | 10    |
| AD731237 | 11    |
| AD731247 | 12    |
| AD731257 | 13    |
| AD731267 | 14    |
| AD731277 | 15    |
| AD731287 | 16    |
| AD731297 | 17    |
| AD731307 | 18    |
| AD731317 | 19    |
| AD731337 | 21    |
| AD731347 | 22    |
| AD731357 | 23    |
| AD731367 | 24    |

1000V I IEC 60900

INCH



| COD.     | AF inch |
|----------|---------|
| AD731607 | 5/16    |
| AD731897 | 3/8     |
| AD731907 | 7/16    |
| AD731917 | 1/2     |
| AD731927 | 9/16    |
| AD731987 | 5/8     |
| AD731997 | 11/16   |
| AD732007 | 3/4     |
| AD732017 | 7/8     |
| AD732027 | 15/16   |

1000V I IEC 60900

# ACO

LLAVES DE PIPA ABIERTAS / ANGLED OPEN SOCKETS / CLÉS À PIPE /  
 PFEIFFENKOPFSCHLÜSSEL / CHIAVI A PIPA APERTE / CHAVE DE CACHIMBO ABERTAS /  
 ГОЛОВКА С РУКОЯТКОЙ ПОД 90 ГРАДУСОВ

MM



| COD.     | AF mm |
|----------|-------|
| AD732037 | 8     |
| AD732047 | 9     |
| AD732057 | 10    |
| AD732067 | 11    |
| AD732077 | 12    |
| AD732087 | 13    |
| AD732097 | 14    |
| AD732107 | 15    |
| AD732117 | 16    |
| AD732127 | 17    |
| AD732137 | 18    |
| AD732147 | 19    |
| AD732157 | 20    |
| AD732167 | 21    |
| AD732177 | 22    |
| AD732187 | 23    |
| AD732197 | 24    |
| AD732207 | 25    |
| AD732217 | 26    |
| AD732227 | 27    |
| AD732237 | 28    |
| AD732247 | 29    |
| AD732257 | 30    |
| AD732267 | 32    |

1000 V | IEC 60900

LLAVES HEXAGONALES / HEXAGONAL KEYS / CLÉS MÂLES / WINKELSCHRAUBENDREHER / CHIAVI ESAGONALI / CHAVES HEXAGONAIS / ШЕСТИГРАННЫЕ КЛЮЧИ

MM



| COD.     | AF mm |
|----------|-------|
| AD793707 | 3     |
| AD793717 | 4     |
| AD793727 | 5     |
| AD793737 | 6     |
| AD793747 | 8     |
| AD793757 | 10    |
| AD793767 | 12    |

1000 V | IEC 60900

LLAVE DE TUBO MANGO EN T / T HANDLE WRENCH / CLÉ EN T / T-GRIFF SCHLÜSSEL /  
 CHIAVE A TUBO CON IMPUGNATURA A T / CHAVES TUBOLARES / ГОЛОВКА С  
 РУКОЯТКОЙ Т

MM



| COD.     | AF mm |
|----------|-------|
| AD731707 | 6     |
| AD731717 | 7     |
| AD731727 | 8     |
| AD731737 | 9     |
| AD731747 | 10    |
| AD731757 | 11    |
| AD731767 | 12    |
| AD731777 | 13    |
| AD731787 | 14    |
| AD731797 | 15    |
| AD731807 | 16    |
| AD731817 | 17    |
| AD731827 | 18    |
| AD731837 | 19    |
| AD731847 | 20    |
| AD731857 | 21    |
| AD731867 | 22    |
| AD731877 | 23    |
| AD731887 | 24    |

1000 V | IEC 60900

INCH



| COD.     | AF inch |
|----------|---------|
| AD793777 | 1/8     |
| AD793787 | 9/64    |
| AD793797 | 5/32    |
| AD793807 | 3/16    |
| AD793817 | 7/32    |
| AD793827 | 1/4     |
| AD793837 | 5/16    |
| AD793847 | 3/8     |
| AD793857 | 7/16    |
| AD793867 | 1/2     |
| AD793877 | 5/8     |

1000 V | IEC 60900

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**ACO**

LLAVES HEXAGONALES EN T / T HEXAGONAL KEYS / CLÉS MÂLES EN T / T-INBUSSCHLÜSSEL / CHIAVI ESAGONALI A T / CHAVES HEXAGONAIS EM T / Т-ОБРАЗНЫЕ КЛЮЧИ ДЛЯ ШЕСТИГРАННИКОВ

MM



| COD.     | mm |
|----------|----|
| AD793907 | 5  |
| AD793917 | 6  |
| AD793927 | 8  |
| AD793937 | 10 |

1000V | IEC 60900

DESTORNILLADORES / SCREWDRIVERS / TOURNEVIS / SCHRAUBENZIEHER / CACCIAVITI / CHAVES DE FENDA / ОТВЕРТКИ

MASTERTORK

ELECTRICISTA / ELECTRICIAN / ELECTRICIEN / ELEKTRIK / PER ELETTRICISTI / ELETRICISTA / ЭЛЕКТРИЧЕСКАЯ

MM



| COD.     | mm  | mm  |
|----------|-----|-----|
| AD766207 | 2,5 | 75  |
| AD766217 | 3   | 100 |
| AD766227 | 4   | 125 |
| AD766237 | 5,5 |     |
| AD766247 |     | 150 |
| AD766257 | 6,5 |     |
| AD766267 | 8   | 175 |
| AD766277 | 10  | 200 |

1000V | IEC 60900 | DIN 5265

PHILLIPS®



| COD.     |      | mm  |
|----------|------|-----|
| AD766287 | PH-0 | 60  |
| AD767387 | PH-1 | 80  |
| AD766297 | PH-1 | 100 |
| AD766307 | PH-2 | 125 |
| AD766317 | PH-3 | 150 |
| AD766327 | PH-4 | 200 |

1000V | IEC 60900 | DIN 5262

INCH



| COD.     | inch  | inch |
|----------|-------|------|
| AD750637 | 3/32  | 3    |
| AD750647 | 1/8   | 4    |
| AD750657 | 5/32  | 5    |
| AD750667 | 7/32  |      |
| AD750677 |       | 6    |
| AD750687 | 1/4   |      |
| AD750697 | 5/16  | 7    |
| AD750817 | 25/64 | 8    |

1000V | IEC 60900 | DIN 5265

PLANO-PHILLIPS® PARA BORNES ELÉCTRICOS / SLOTTED-PHILLIPS® FOR TERMINAL SCREWS / PHILLIPS® À FENTE POUR BORNES ÉLECTRIQUES / SCHLITZ-PHILLIPS® SCHRAUBENDREHER FÜR SCHRAUBKLEMMEN / TAGLIO-PHILLIPS® PER TERMINALI ELETTRICI / FENDA-PHILLIPS® PARA BORNES ELÉCTRICOS / ОТВЕРТКА КРЕСТОВАЯ КЛЕМНАЯ PH



| COD.     |      | mm  |
|----------|------|-----|
| AD791637 | PH-1 | 100 |
| AD791647 | PH-2 | 125 |

1000V | IEC 60900

**ACO**

POZIDRIV®\*



| COD.     |      |     |
|----------|------|-----|
| AD766337 | PZ-0 | 60  |
| AD766347 | PZ-1 | 100 |
| AD766357 | PZ-2 | 125 |
| AD766367 | PZ-3 | 150 |
| AD766377 | PZ-4 | 200 |

1000V | IEC 60900 | DIN 5262

TORX®\*



| COD.     |      |     |
|----------|------|-----|
| AD766387 | T-6  | 50  |
| AD766397 | T-7  |     |
| AD766407 | T-8  |     |
| AD766417 | T-9  |     |
| AD766427 | T-10 |     |
| AD766437 | T-15 | 75  |
| AD766447 | T-20 |     |
| AD766457 | T-25 |     |
| AD766467 | T-27 | 115 |
| AD766477 | T-30 |     |
| AD766487 | T-40 | 125 |
| AD766497 | T-45 |     |
| AD766507 | T-50 | 175 |

1000V | IEC 60900 | DIN 5262

HEXAGONAL ALLEN

MM



| COD.     |     |     |
|----------|-----|-----|
| AD747107 | 2,5 | 75  |
| AD747117 | 3   |     |
| AD747127 | 4   | 100 |
| AD747137 | 5   |     |
| AD747147 | 6   |     |
| AD747157 | 8   | 150 |

1000V | IEC 60900

PLANO-POZIDRIV®\* PARA BORNES ELÉCTRICOS / SLOTTED-POZIDRIV®\* FOR  
TERMINAL SCREWS / POZIDRIV®\* - À FENTE POUR BORNES ÉLECTRIQUES / SCHLITZ-  
POZIDRIV®\* SCHRAUBENDREHER FÜR SCHRAUBKLEMMEN / TAGLIO-POZIDRIV®\* PER  
TERMINALI ELETTRICI / FENDA-POZIDRIV®\* PARA BORNES ELÉCTRICOS / ОТВЕРТКА  
КРЕСТОВАЯ КЛЕММНАЯ POZIDRIV®\*



| COD.     |      |     |
|----------|------|-----|
| AD791657 | PZ-1 | 100 |
| AD791667 | PZ-2 | 125 |

1000V | IEC 60900

TAMPER TORX



| COD.     |       |     |
|----------|-------|-----|
| AD750377 | TT-6  | 50  |
| AD750387 | TT-7  |     |
| AD750397 | TT-8  |     |
| AD750407 | TT-9  |     |
| AD750417 | TT-10 |     |
| AD750427 | TT-15 | 75  |
| AD750437 | TT-20 |     |
| AD750447 | TT-25 |     |
| AD750457 | TT-27 | 115 |
| AD750467 | TT-30 |     |
| AD750477 | TT-40 | 125 |
| AD750487 | TT-45 |     |
| AD750497 | TT-50 | 175 |

1000V | IEC 60900

INCH



| COD.     |      |   |
|----------|------|---|
| AD750837 | 1/8  | 3 |
| AD750847 | 5/32 | 4 |
| AD750977 | 5/16 | 6 |

1000V | IEC 60900

- Para más información de dimensiones y características del producto, consultar en el capítulo correspondiente del catálogo general o en [www.egamaster.com](http://www.egamaster.com). / For more details about features and dimensions of the products, check the corresponding chapter of the General Catalogue or [www.egamaster.com](http://www.egamaster.com). / Pour plus d'informations sur les dimensions et les caractéristiques du produit, consulter le chapitre correspondant de notre catalogue général ou sur [www.egamaster.com](http://www.egamaster.com).
- \*Para tornillos POZIDRIV® (Marca registrada por European Ind. Serv. Ltd.) / \*For screws POZIDRIV® (European Ind. Serv. Ltd. registered trademark) / \*Pour vis POZIDRIV® (Marque enregistrée par European Ind. Serv. Ltd.)
- \*Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)



**DE VASO / SOCKET SCREWDRIVER / CLÉ À DOUILLE EMMANCHÉE / 6-KANT STECKSCHLÜSSEL / BUSSOLE / DE CAIXA / ОТВЕРТКА С ГОЛОВКОЙ**

**MM**



| COD.     | mm  | mm  |
|----------|-----|-----|
| AD746987 | 4   | 150 |
| AD746997 | 5   |     |
| AD747007 | 5,5 |     |
| AD747017 | 6   |     |
| AD747027 | 7   |     |
| AD747037 | 8   |     |
| AD747047 | 9   |     |
| AD747057 | 10  |     |
| AD747067 | 11  |     |
| AD747077 | 12  |     |
| AD747087 | 13  |     |
| AD747097 | 14  | 175 |

⚡ 1000V | IEC 60900

**INCH**



| COD.     | inch  | inch |
|----------|-------|------|
| AD751327 | 5/32  | 6    |
| AD749847 | 3/16  |      |
| AD751337 | 7/32  |      |
| AD749857 | 1/4   |      |
| AD749867 | 5/16  |      |
| AD749877 | 3/8   |      |
| AD751367 | 25/64 | 7    |
| AD749887 | 7/16  |      |
| AD751387 | 15/32 |      |
| AD749897 | 1/2   |      |

⚡ 1000V | IEC 60900

**MM**



| COD.     | mm | mm  |
|----------|----|-----|
| AD746647 | 9  | 130 |
| AD746657 | 10 |     |
| AD746687 | 13 |     |

⚡ 1000V | IEC 60900

**ROTORK**

**ELECTRICISTA / ELECTRICIAN / ELECTRICIEN / ELEKTRIK / PER ELETTRICISTI / ELETRICISTA / ЭЛЕКТРИЧЕСКАЯ**

**MM**



| COD.     | mm  | mm  |
|----------|-----|-----|
| AD767307 | 2,5 | 60  |
| AD767317 | 3   |     |
| AD766517 | 3   | 100 |
| AD766527 | 4   |     |
| AD766537 | 5   | 150 |
| AD766547 | 6   |     |
| AD767327 | 8   | 175 |
| AD767337 | 10  |     |
|          |     | 200 |

⚡ 1000V | IEC 60900 | DIN 5265

**INCH**



| COD.     | inch  | inch |
|----------|-------|------|
| AD751727 | 3/32  | 2    |
| AD751747 | 1/8   | 4    |
| AD751757 | 5/32  | 5    |
| AD751767 | 3/16  | 6    |
| AD751777 | 1/4   | 7    |
| AD751787 | 5/16  | 7    |
| AD751797 | 25/64 | 8    |

⚡ 1000V | IEC 60900 | DIN 5265



**ACO**

**PHILLIPS®\***



| COD.     |      |     |
|----------|------|-----|
| AD766557 | PH-0 | 60  |
| AD766567 | PH-1 | 100 |
| AD766577 | PH-2 | 125 |
| AD766587 | PH-3 | 150 |
| AD767357 | PH-4 | 200 |

⚡ 1000V | IEC 60900 | DIN 5262

**POZIDRIV®\***



| COD.     |      |     |
|----------|------|-----|
| AD766597 | PZ-0 | 60  |
| AD766607 | PZ-1 | 100 |
| AD766617 | PZ-2 | 125 |
| AD766627 | PZ-3 | 150 |
| AD767367 | PZ-4 | 200 |

⚡ 1000V | IEC 60900 | DIN 5262

**MICROTRONIC**

**ELECTRICISTA / ELECTRICIAN / ELECTRICIEN / ELEKTRIK / PER ELETTRICISTI /  
 ELETRICISTA / ЭЛЕКТРИЧЕСКАЯ**



| COD.     |     |    |
|----------|-----|----|
| AD751567 | 1,5 | 40 |
| AD751577 | 1,8 | 60 |
| AD751587 | 2   | 60 |
| AD751597 | 2,5 | 75 |
| AD752017 | 3   | 75 |

⚡ 1000V | IEC 60900 | DIN 7437

**PHILLIPS®\***



| COD.     |       |    |
|----------|-------|----|
| AD752027 | PH-00 | 75 |
| AD752037 | PH-0  | 75 |

⚡ 1000V | IEC 60900 | DIN 7438

**CORTE / CUTTING / OUTILS COUPANTS / SCHNEIDWERKZEUG / ARCHETTI / CORTE / РЕЗКА**

**ARCO DE SIERRA / HACK SAW / MONTURE DE SCIE À METAUX / METALLSÄGEBOGEN / ARCHETTI / ARCOS DE SERRA / HOЖOBKA**



| COD.     |   |     |
|----------|---|-----|
| AD730297 | 6 | 150 |

⚡ 1000V | IEC 60900





| COD.     |    |     |
|----------|----|-----|
| AD730307 | 12 | 300 |

⚡ 1000V | IEC 60900

- Para más información de dimensiones y características del producto, consultar en el capítulo correspondiente del catálogo general o en [www.egamaster.com](http://www.egamaster.com). / For more details about features and dimensions of the products, check the corresponding chapter of the General Catalogue or [www.egamaster.com](http://www.egamaster.com). / Pour plus d'informations sur les dimensions et les caractéristiques du produit, consulter le chapitre correspondant de notre catalogue général ou sur [www.egamaster.com](http://www.egamaster.com).
- \*Para tornillos PHILLIPS® (Marca registrada por Phillips Screw Company) / \*For screws PHILLIPS® (Phillips Screw Company registered trademark) / \*Pour vis PHILLIPS® (Marque enregistrée par Phillips Screw Company)
- \*Para tornillos POZIDRIV® (Marca registrada por European Ind. Serv. Ltd.) / \*For screws POZIDRIV® (European Ind. Serv. Ltd. registered trademark) / \*Pour vis POZIDRIV® (Marque enregistrée par European Ind. Serv. Ltd.)



**ACO**

■ **BANDEJAS / TRAYS / PLATEAUX / ABLAGEKASTEN / PANNELLO / TABULEIROS / ПОДДОНЫ**

| COD.            | PCS. |  | L x W (mm)                                                                 |  |
|-----------------|------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>AD500207</b> | 18   |                                                                                   | 51025, 51039, 50950, 51045,<br>51478, 50977, 50954, 51560,<br>51562, 51075 | 2,8                                                                                |



| PCS. | Composición / Composition / Composition | Descripción / Description / Description                                   |         |
|------|-----------------------------------------|---------------------------------------------------------------------------|---------|
| 10   | AD615007                                | Juego de llaves hexagonales / Hexagonal keys set                          | -       |
| 1    | AD610167                                | Llave HD / HD Pipe wrench                                                 | 12 inch |
| 2    | AD611107, AD611117                      | Llaves ajustables / Adjustable wrenches                                   |         |
| 1    | AD586417                                | Linterna mini / Mini flashlight                                           |         |
|      | AD651587                                | Nivel magnético torpedo / Torpedo Magnetic level                          | -       |
| 2    | AD655717, AD655767                      | Galgas para roscas / Thread pitch gauges                                  |         |
| 1    | AD638767                                | Cortador con cuchilla auto-retráctil / Cutter with auto-retractable blade |         |



| COD.            | PCS. |  | L x W (mm)                                                              | Medidas en / Sizes in / Mesures en |  |
|-----------------|------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------|
| <b>AD500217</b> | 8    |                                                                                   | 51025, 51039, 50950, 51045, 51478, 50977, 50954,<br>51560, 51562, 51075 | mm                                 | 3,9                                                                                 |



| Composición / Composition / Composition                                           | Descripción / Description / Description  |    |
|-----------------------------------------------------------------------------------|------------------------------------------|----|
| AD617437, AD617447, AD617457, AD617467, AD617477, AD617487,<br>AD617497, AD617507 | Llaves combinadas / Combination wrenches | mm |



| COD.            | PCS. |  | L x W (mm)                                                              | Medidas en / Sizes in / Mesures en |  |
|-----------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|
| <b>AD500227</b> | 7    |                                                                                     | 51025, 51039, 50950, 51045, 51478, 50977, 50954,<br>51560, 51562, 51075 | inch                               | 3,3                                                                                   |



| Composición / Composition / Composition                                 | Descripción / Description / Description  |      |
|-------------------------------------------------------------------------|------------------------------------------|------|
| AD603527, AD603537, AD603547, AD603557, AD603567, AD603577,<br>AD603587 | Llaves combinadas / Combination wrenches | inch |



| COD.            | PCS. |  | L x W (mm)                                                              | Medidas en / Sizes in / Mesures en |  |
|-----------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|
| <b>AD500407</b> | 18   |                                                                                     | 51025, 51039, 50950, 51045, 51478, 50977, 50954,<br>51560, 51562, 51075 | mm                                 | 2,1                                                                                   |



| Composición / Composition / Composition                                                                                                                                                  | Descripción / Description / Description  |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----|
| AD617257, AD617267, AD617277, AD617287, AD617297, AD617307,<br>AD617317, AD617327, AD617337, AD617347, AD617357, AD617367,<br>AD617377, AD617387, AD617397, AD617407, AD617417, AD617427 | Llaves combinadas / Combination wrenches | mm |



| COD.            | PCS. |  | L x W (mm)                                                              | Medidas en / Sizes in / Mesures en |  |
|-----------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|
| <b>AD500417</b> | 13   |                                                                                     | 51025, 51039, 50950, 51045, 51478, 50977, 50954,<br>51560, 51562, 51075 | inch                               | 1,4                                                                                   |

| Composición / Composition / Composition                                                                                                | Descripción / Description / Description  |      |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------|
| AD603407, AD603417, AD678787, AD603427, AD603437, AD603447,<br>AD603457, AD603467, AD603477, AD603487, AD603497, AD603507,<br>AD603517 | Llaves combinadas / Combination wrenches | inch |





| COD.            | PCS. |  | L x W (mm)                                                              | Medidas en / Sizes in / Mesures en |  |
|-----------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|
| <b>AD500237</b> | 13   |                                                                                     | 51025, 51039, 50950, 51045, 51478, 50977, 50954,<br>51560, 51562, 51075 | mm                                 | 3,9                                                                                   |

| Composición / Composition / Composition                                                                                                | Descripción / Description / Description       |    |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----|
| AD617757, AD617767, AD617777, AD617787, AD617797, AD617807,<br>AD617817, AD617827, AD617837, AD617847, AD617857, AD617867,<br>AD617877 | Llaves acodadas / Double offset ring wrenches | mm |





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| COD.     | PCS. |  | L x W (mm) | Medidas en / Sizes in / Mesures en |  |
|----------|------|-----------------------------------------------------------------------------------|------------|------------------------------------|-------------------------------------------------------------------------------------|
| AD500247 | 13   |                                                                                   | 565 x 405  | inch                               | 3,0                                                                                 |





| Composición / Composition / Composition                                                                                          | Descripción / Description / Description       |      |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------|
| AD603807, AD603817, AD603827, AD603837, AD603847, AD603857, AD603867, AD603877, AD603887, AD603897, AD603907, AD603917, AD603927 | Llaves acodadas / Double offset ring wrenches | inch |

| COD.     | PCS. |  | L x W (mm) |  |
|----------|------|-----------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------|
| AD500427 | 6    |                                                                                   | 565 x 405  | 0,8                                                                                |





| PCS. | Composición / Composition / Composition | Descripción / Description / Description                                                           |
|------|-----------------------------------------|---------------------------------------------------------------------------------------------------|
| 1    | 66078                                   | Cordón anticaída retráctil / Retractable lanyard                                                  |
|      | 66062                                   | Cordón anticaída retráctil con mosquetón / Retractable lanyard with carabiner                     |
|      | 66112                                   | Cordón anticaída con mosquetón y quitavueltas / Carabiner lanyard with swivel                     |
|      | 66113                                   | Cordón anticaída de nudo y quitavueltas / Loop lanyard with swivel                                |
|      | 66063                                   | Accesorio cordón anticaída retráctil / Retractable lanyard accessory                              |
|      | 66064                                   | Accesorio cordón anticaída retráctil con mosquetón / Retractable lanyard with carabiner accessory |

| COD.     | PCS. |  | L x W (mm) |  |
|----------|------|------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------|
| AD500257 | 8    |                                                                                    | 565 x 405  | 2,8                                                                                 |





| PCS. | Composición / Composition / Composition                    | Descripción / Description / Description |
|------|------------------------------------------------------------|-----------------------------------------|
| 1    | AD620977                                                   | Tenaza Grip / Grip plier                |
|      | AD621517                                                   | Tenaza cortacables / Cable cutters      |
| 6    | AD624967, AD622997, AD623497, AD623447, AD623457, AD623377 | Alicates / Pliers                       |

| COD.     | PCS. |  | L x W (mm) | Medidas en / Sizes in / Mesures en |  |
|----------|------|-------------------------------------------------------------------------------------|------------|------------------------------------|---------------------------------------------------------------------------------------|
| AD500267 | 13   |                                                                                     | 565 x 405  | mm                                 | 1,5                                                                                   |



| PCS. | Composición / Composition / Composition          | Descripción / Description / Description                          |    |
|------|--------------------------------------------------|------------------------------------------------------------------|----|
| 1    | AD624937                                         | Alicata para terminales aislados / For insulated terminals plier | -  |
| 2    | AD664027, AD664067                               | Destornilladores mecánicos / Slotted screwdrivers                | mm |
| 5    | AD664217, AD664227, AD664237, AD664257, AD664267 | Destornilladores electricistas / Electrician screwdrivers        |    |
| 3    | AD664387, AD664397, AD664407                     | Destornilladores Phillips® / Phillips® screwdrivers              |    |
| 1    | AD664567                                         | Destornilladores Pozidriv® / Pozidriv® screwdrivers              | -  |
|      | AD653587                                         | Flexómetro Robust Bimat / Robust Bimat Measuring tape            |    |



| COD.     | PCS. |  | L x W (mm) | Medidas en / Sizes in / Mesures en |  |
|----------|------|-------------------------------------------------------------------------------------|------------|------------------------------------|---------------------------------------------------------------------------------------|
| AD500437 | 13   |                                                                                     | 565 x 405  | inch                               | 1,5                                                                                   |



| PCS. | Composición / Composition / Composition          | Descripción / Description / Description                          |      |
|------|--------------------------------------------------|------------------------------------------------------------------|------|
| 1    | AD624937                                         | Alicata para terminales aislados / For insulated terminals plier | -    |
| 2    | AD553327, AD553377                               | Destornilladores mecánicos / Slotted screwdrivers                | inch |
| 5    | AD553617, AD553547, AD553557, AD553587, AD553607 | Destornilladores electricistas / Electrician screwdrivers        |      |
| 3    | AD664387, AD664397, AD664407                     | Destornilladores Phillips® / Phillips® screwdrivers              |      |
| 1    | AD664567                                         | Destornilladores Pozidriv® / Pozidriv® screwdrivers              | -    |
|      | AD653587                                         | Flexómetro Robust Bimat / Robust Bimat Measuring tape            |      |



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| COD.     | PCS. |  | L x W (mm) |  |
|----------|------|-----------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------|
| AD500277 | 5    | 51025, 51039, 50950, 51045,<br>51478, 50977, 50954, 51560,<br>51562, 51075        | 565 x 405  | 4,1                                                                                |





| PCS. | Composición / Composition / Composition  | Descripción / Description / Description                                                 |
|------|------------------------------------------|-----------------------------------------------------------------------------------------|
| 1    | AD614057                                 | Llave para tubo Mastergrip / Mastergrip Pipe wrench                                     |
| 2    | AD611127, AD611137<br>AD610447, AD610247 | Llaves ajustables / Adjustable wrenches<br>Llaves de aluminio / Aluminium pipe wrenches |

| COD.     | PCS. |  | L x W (mm) | Medidas en / Sizes in / Mesures en |  |
|----------|------|-----------------------------------------------------------------------------------|------------|------------------------------------|-------------------------------------------------------------------------------------|
| AD500287 | 6    | 51025, 51039, 50950, 51045, 51478, 50977, 50954,<br>51560, 51562, 51075           | 565 x 405  | mm                                 | 2,0                                                                                 |





| PCS. | Composición / Composition / Composition          | Descripción / Description / Description        |
|------|--------------------------------------------------|------------------------------------------------|
| 1    | AD637427                                         | Arco de sierra / Hack Saw                      |
| 5    | AD665107, AD665137, AD665177, AD665197, AD665217 | Destornilladores de vaso / Socket screwdrivers |

| COD.     | PCS. |  | L x W (mm) | Medidas en / Sizes in / Mesures en |  |
|----------|------|-----------------------------------------------------------------------------------|------------|------------------------------------|-------------------------------------------------------------------------------------|
| AD500447 | 6    | 51025, 51039, 50950, 51045, 51478, 50977, 50954,<br>51560, 51562, 51075           | 565 x 405  | inch                               | 2,0                                                                                 |





| PCS. | Composición / Composition / Composition          | Descripción / Description / Description        |
|------|--------------------------------------------------|------------------------------------------------|
| 1    | AD637427                                         | Arco de sierra / Hack Saw                      |
| 5    | AD553737, AD553767, AD553807, AD553827, AD553837 | Destornilladores de vaso / Socket screwdrivers |

| COD.     | PCS. |  | L x W (mm) |  |
|----------|------|-------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------|
| AD500297 | 5    | 51025, 51039, 50950, 51045,<br>51478, 50977, 50954, 51560,<br>51562, 51075          | 565 x 405  | 5,8                                                                                  |





| Composición / Composition / Composition          | Descripción / Description / Description |
|--------------------------------------------------|-----------------------------------------|
| AD697067, AD696667, AD696697, AD697077, AD697087 | Martillos / Hammers                     |

| COD.     | PCS. |  | L x W (mm) | Medidas en / Sizes in / Mesures en |  |
|----------|------|-------------------------------------------------------------------------------------|------------|------------------------------------|---------------------------------------------------------------------------------------|
| AD500457 | 6    | 51025, 51039, 50950, 51045, 51478, 50977, 50954,<br>51560, 51562, 51075             | 565 x 405  | mm                                 | 5,4                                                                                   |



| Composición / Composition / Composition                    | Descripción / Description / Description                       |
|------------------------------------------------------------|---------------------------------------------------------------|
| AD650767, AD650777, AD650787, AD650797, AD650807, AD650817 | Llaves de carraca para estructura metálica / Podging wrenches |

| COD.     | PCS. |  | L x W (mm) |  |
|----------|------|-------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------|
| AD500307 | 14   | 51025, 51039, 50950, 51045,<br>51478, 50977, 50954, 51560,<br>51562, 51075          | 565 x 405  | 3,6                                                                                  |



| PCS. | Composición / Composition / Composition                       | Descripción / Description / Description             |
|------|---------------------------------------------------------------|-----------------------------------------------------|
| 5    | AD766337, AD766347, AD766357, AD766367, AD766377              | Destornilladores Pozidriv® / Pozidriv® screwdrivers |
| 6    | AD766287, AD766387, AD766297, AD766307, AD766317,<br>AD766327 | Destornilladores Phillips® / Phillips® screwdrivers |
| 1    | AD695347                                                      | Tijera electricista / Electrician's scissors        |
|      | AD730357                                                      | Cuchillo / Knife                                    |
|      | AD660737                                                      | Buscapolos / Voltage tester                         |

**ACO**

| COD.            | PCS.                                                                 |                                                                      | L x W (mm)                                                            | Medidas en / Sizes in / Mesures en | Kg  |
|-----------------|----------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------|-----|
| <b>AD500317</b> | 10                                                                   | 51025, 51039, 50950, 51045, 51478, 50977, 50954, 51560, 51562, 51075 | 565 x 405                                                             | inch                               | 1,4 |
| PCS.            | Composición / Composition / Composition                              |                                                                      | Descripción / Description / Description                               |                                    |     |
| 7               | AD750647, AD750657, AD750667, AD750677, AD750687, AD750697, AD750817 |                                                                      | Destornilladores electricistas / Electrician screwdrivers 1000V, inch |                                    |     |
| 1               | AD695347                                                             |                                                                      | Tijera electricista / Electrician's scissors                          |                                    |     |
| 1               | AD730357                                                             |                                                                      | Cuchillo / Knife                                                      |                                    |     |
| 1               | AD660737                                                             |                                                                      | Buscapolos / Voltage tester                                           |                                    |     |



| COD.            | PCS.                                                                 |                                                                      | L x W (mm)                                                          | Medidas en / Sizes in / Mesures en | Kg  |
|-----------------|----------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------|-----|
| <b>AD500467</b> | 12                                                                   | 51025, 51039, 50950, 51045, 51478, 50977, 50954, 51560, 51562, 51075 | 565 x 405                                                           | mm                                 | 4,1 |
| PCS.            | Composición / Composition / Composition                              |                                                                      | Descripción / Description / Description                             |                                    |     |
| 7               | AD766217, AD766227, AD766237, AD766247, AD766257, AD766267, AD766277 |                                                                      | Destornilladores electricistas / Electrician screwdrivers 1000V, mm |                                    |     |
| 5               | AD659167, AD650767, AD650777, AD650797, AD650807                     |                                                                      | Llaves de carraca para estructura metálica / Podging wrenches mm    |                                    |     |



| COD.            | PCS.                                    |       | L x W (mm)                                                           | Medidas en / Sizes in / Mesures en | Kg   |
|-----------------|-----------------------------------------|-------|----------------------------------------------------------------------|------------------------------------|------|
| <b>AD500667</b> | 10                                      | 51074 | 1220 x 490                                                           |                                    | 17,5 |
| PCS.            | Composición / Composition / Composition |       | Descripción / Description / Description                              |                                    |      |
| 1               | AD632627                                |       | Palanca de encofrador / Wrecking bar                                 |                                    |      |
| 2               | AD611157                                |       | Llave ajustable / Adjustable wrench                                  |                                    |      |
| 2               | AD610267                                |       | Llave de aluminio / Aluminium pipe wrench                            |                                    |      |
| 1               | AD705047                                |       | Maceta octogonal antichispa Cu-Be / Cu-Be Non sparking sledge hammer |                                    |      |
| 1               | AD696877                                |       | Martillo de ebanista / Joiner's hammer                               |                                    |      |
| 1               | AD697057                                |       | Martillo de bola / Ball pein hammer                                  |                                    |      |
| 2               | AD696677, AD696697                      |       | Macetas cuadradas tipo alemán / German type stoning hammers          |                                    |      |





| COD.            | PCS.                                    |       | L x W (mm)                                                                | Medidas en / Sizes in / Mesures en | Kg   |
|-----------------|-----------------------------------------|-------|---------------------------------------------------------------------------|------------------------------------|------|
| <b>AD500657</b> | 47                                      | 51074 | 1220 x 490                                                                |                                    | 10,5 |
| PCS.            | Composición / Composition / Composition |       | Descripción / Description / Description                                   |                                    |      |
| 2               | AD638787, AD638767                      |       | Cortador con cuchilla auto-retráctil / Cutter with auto-retractable blade |                                    |      |
| 1               | AD637427                                |       | Arco de sierra / Hack Saw                                                 |                                    |      |
| 4               | AD634987, AD635317, AD636787, AD636757  |       | Limas / Files                                                             |                                    |      |
| 1               | AD628537                                |       | Cinzel mecánico / Flat cold chisel                                        |                                    |      |
| 3               | AD623437, AD623497, AD623417            |       | Alicates / Pliers                                                         |                                    |      |
| 3               | AD622477, AD622417, AD622437            |       | Alicates mini / Mini Pliers                                               |                                    |      |
| 1               | AD626277                                |       | Alicate trenzador de alambre reversible / Reversible Wire twist plier     |                                    |      |
| 1               | AD620977                                |       | Tenaza Grip / Grip plier                                                  |                                    |      |
| 2               | AD611127                                |       | Llave ajustable / Adjustable wrench                                       |                                    |      |
| 1               | AD697077                                |       | Martillo de bola / Ball pein hammer                                       |                                    |      |
| 1               | AD610157                                |       | Llave heavy duty / Heavy Duty pipe wrench                                 |                                    |      |
| 20              | AD614957, AD614967                      |       | Juego llaves Allen bola / Set of hexagonal key wrenches ball type         |                                    |      |
| 1               | AD655707                                |       | Galgas de espesores 32 hojas / Precision feeler gauge 32 blades           |                                    |      |
| 1               | AD671957                                |       | Rasqueta para juntas / Gasket scraper                                     |                                    |      |
| 1               | AD651587                                |       | Nivel magnético torpedo / Torpedo Magnetic level                          |                                    |      |
| 1               | AD695347                                |       | Tijera electricista / Electrician's scissors                              |                                    |      |
| 1               | AD653587                                |       | Flexómetro Robust Bimat / Robust Bimat Measuring tape                     |                                    |      |
| 1               | AD586417                                |       | Linterna mini / Mini flashlight                                           |                                    |      |
| 1               | AD660737                                |       | Buscapolos / Voltage tester                                               |                                    |      |





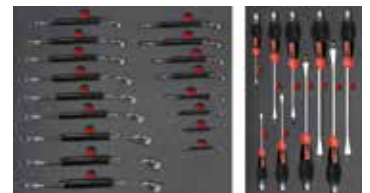
• Para más información de dimensiones y características del producto, consultar en el capítulo correspondiente del catálogo general o en [www.egamaster.com](http://www.egamaster.com). / For more details about features and dimensions of the products, check the corresponding chapter of the General Catalogue or [www.egamaster.com](http://www.egamaster.com). / Pour plus d'informations sur les dimensions et les caractéristiques du produit, consulter le chapitre correspondant de notre catalogue général ou sur [www.egamaster.com](http://www.egamaster.com).



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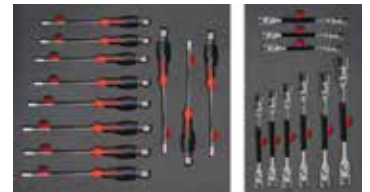
| COD.            | PCS.                                                                                                                   |  | L x W (mm)                                               | Medidas en / Sizes in / Mesures en |  |
|-----------------|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------|
| <b>AD500677</b> | 34                                                                                                                     | 51074                                                                             | 930 x 490                                                | mm                                 | 8,5                                                                                 |
| PCS.            | Composición / Composition / Composition                                                                                |                                                                                   | Descripción / Description / Description                  |                                    |                                                                                     |
| 11              | AD664387, AD664397, AD664407, AD664417, AD664567, AD664727, AD664587, AD664597, AD664607, AD665257, AD665267           |                                                                                   | Destornilladores / Screwdrivers                          |                                    |                                                                                     |
| 6               | AD751567, AD751587, AD751597, AD752017, AD752027, AD752037                                                             |                                                                                   | Destornilladores mini / Mini screwdrivers                |                                    |                                                                                     |
| 12              | AD607707, AD607717, AD607727, AD607737, AD607747, AD607757, AD607777, AD607787, AD607797, AD607807, AD607817, AD607827 |                                                                                   | Llave de estrella plana / Double ended flat ring spanner |                                    |                                                                                     |
| 5               | AD607857, AD607887, AD607897, AD607907, AD607927                                                                       |                                                                                   | Llave para racores / Flare nut                           |                                    |                                                                                     |





| COD.            | PCS.                                                                                                                                                                     |  | L x W (mm)                                        | Medidas en / Sizes in / Mesures en |  |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------|
| <b>AD500687</b> | 26                                                                                                                                                                       | 51074                                                                             | 870 x 490                                         | mm/inch                            | 8,5                                                                                 |
| PCS.            | Composición / Composition / Composition                                                                                                                                  |                                                                                   | Descripción / Description / Description           |                                    |                                                                                     |
| 17              | AD603407, AD603417, AD603427, AD603437, AD603447, AD603457, AD603477, AD603487, AD603497, AD603517, AD603527, AD603537, AD603547, AD603557, AD603567, AD603577, AD603587 |                                                                                   | Llaves combinadas / Combination wrenches          |                                    |                                                                                     |
| 9               | AD664007, AD664017, AD664037, AD664047, AD664067, AD664087, AD664097, AD664497, AD664107                                                                                 |                                                                                   | Destornilladores mecánicos / Slotted screwdrivers |                                    |                                                                                     |





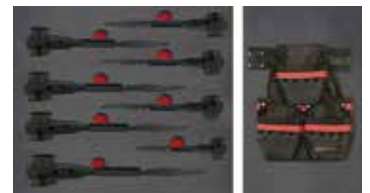
| COD.            | PCS.                                                                                                         |  | L x W (mm)                                                    | Medidas en / Sizes in / Mesures en |  |
|-----------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|
| <b>AD500697</b> | 20                                                                                                           | 51074                                                                               | 870 x 490                                                     | mm                                 | 5,5                                                                                   |
| PCS.            | Composición / Composition / Composition                                                                      |                                                                                     | Descripción / Description / Description                       |                                    |                                                                                       |
| 11              | AD665107, AD665117, AD665127, AD665137, AD665147, AD665157, AD665167, AD665177, AD665187, AD665197, AD665207 |                                                                                     | Destornilladores de vaso / Socket screwdrivers                |                                    |                                                                                       |
| 9               | AD613017, AD613027, AD613037, AD613047, AD613057, AD613067, AD613087, AD613097, AD613107                     |                                                                                     | Llaves vaso doble articulación / Double ended swivel wrenches |                                    |                                                                                       |





| COD.            | PCS.                                    |  | L x W (mm)                                                                                        |  |
|-----------------|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>AD500717</b> | 23                                      | 51074                                                                               | 870 x 490                                                                                         | 3,0                                                                                  |
| PCS.            | Composición / Composition / Composition |                                                                                     | Descripción / Description / Description                                                           |                                                                                      |
| 6               | 66112, 66108                            |                                                                                     | Cordón anticaída con mosquetón / Carabiner lanyard                                                |                                                                                      |
|                 | 66113, 66109                            |                                                                                     | Cordón anticaída de nudo / Loop lanyard                                                           |                                                                                      |
| 1               | AD765847                                |                                                                                     | Alicates / Pliers                                                                                 |                                                                                      |
|                 | AD766177                                |                                                                                     | Alicates Mastercut / Mastercut Pliers                                                             |                                                                                      |
|                 | AD730047                                |                                                                                     | Tenaza de canal / Box joint                                                                       |                                                                                      |
| 2               | 50998, 50999                            |                                                                                     | Accesorio de anillas para el cinturón portaherramientas / Accessory with rings for tools belt     |                                                                                      |
|                 | 66078                                   |                                                                                     | Cordón anticaída retráctil / Retractable lanyard                                                  |                                                                                      |
| 3               | 66064                                   |                                                                                     | Accesorio cordón anticaída retráctil con mosquetón / Retractable lanyard with carabiner accessory |                                                                                      |



| COD.            | PCS.                                                                           |  | L x W (mm)                                                    |  |
|-----------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>AD500707</b> | 9                                                                              | 51074                                                                               | 870 x 490                                                     | 3,5                                                                                  |
| PCS.            | Composición / Composition / Composition                                        |                                                                                     | Descripción / Description / Description                       |                                                                                      |
| 8               | AD659167, AD650767, AD659177, AD650777, AD650787, AD650797, AD650807, AD650817 |                                                                                     | Llaves de carraca para estructura metálica / Podging wrenches |                                                                                      |
| 1               | 50997                                                                          |                                                                                     | Cinturón portaherramientas / Tool belt                        |                                                                                      |





**ACO**

| COD.            | PCS. |  | L x W (mm) | Medidas en / Sizes in / Mesures en |  |
|-----------------|------|-----------------------------------------------------------------------------------|------------|------------------------------------|-------------------------------------------------------------------------------------|
| <b>AD500727</b> | 12   | 51074                                                                             | 1220 x 490 | mm                                 | 4,0                                                                                 |


| PCS. | Composición / Composition / Composition                                        | Descripción / Description / Description                       |    |
|------|--------------------------------------------------------------------------------|---------------------------------------------------------------|----|
| 8    | AD659167, AD650767, AD659177, AD650777, AD650787, AD650797, AD650807, AD650817 | Llaves de carraca para estructura metálica / Podging wrenches | mm |
| 4    | AD624967, AD624987, AD623507, AD622997                                         | Alicates / Pliers                                             | -  |



| COD.            | PCS. |  | L x W (mm) |  |
|-----------------|------|-----------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------|
| <b>AD500737</b> | 11   | 51074                                                                             | 930 x 490  | 8,0                                                                                |



| PCS. | Composición / Composition / Composition | Descripción / Description / Description                               |  |
|------|-----------------------------------------|-----------------------------------------------------------------------|--|
| 2    | AD610247                                | Llave de aluminio / Aluminium pipe wrench                             |  |
|      | AD610157                                | Llave heavy duty / Heavy Duty pipe wrench                             |  |
|      | AD626277                                | Alicate trenzador de alambre reversible / Reversible Wire twist plier |  |
| 1    | AD620917                                | Alicate tipo Ford / Slip joint plier                                  |  |
|      | AD620977                                | Tenaza Grip / Grip plier                                              |  |
|      | AD621067                                | Tenaza pico de loro / Groove joint plier                              |  |
| 2    | AD696877, AD696847                      | Martillos de ebanista / Joiner's hammers                              |  |
| 1    | AD697047                                | Martillo de bola / Ball pein hammer                                   |  |



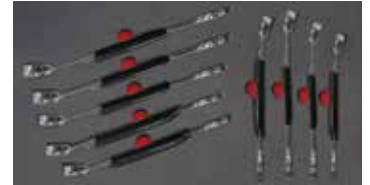
| COD.            | PCS. |  | L x W (mm) |  |
|-----------------|------|------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------|
| <b>AD500747</b> | 21   | 51074                                                                              | 930 x 490  | 7,0                                                                                 |


| PCS. | Composición / Composition / Composition                                                                                                                        | Descripción / Description / Description  |      |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------|
| 16   | AD603407, AD603417, AD603427, AD603437, AD603447, AD603457, AD603477, AD603487, AD603497, AD603517, AD603527, AD603537, AD603547, AD603557, AD603567, AD603587 | Llaves combinadas / Combination wrenches | inch |
| 5    | AD607857, AD607887, AD607897, AD607907, AD607927                                                                                                               | Llave para racores / Flare nut           | -    |



| COD.            | PCS. |  | L x W (mm) | Medidas en / Sizes in / Mesures en |  |
|-----------------|------|-------------------------------------------------------------------------------------|------------|------------------------------------|---------------------------------------------------------------------------------------|
| <b>AD500757</b> | 9    | 51074                                                                               | 930 x 490  | inch                               | 13                                                                                    |

| PCS. | Composición / Composition / Composition                                                  | Descripción / Description / Description  |      |
|------|------------------------------------------------------------------------------------------|------------------------------------------|------|
| 9    | AD609577, AD609587, AD609617, AD609597, AD609627, AD608977, AD608987, AD608997, AD609607 | Llaves combinadas / Combination wrenches | inch |



| COD.            | PCS. |  | L x W (mm) | Medidas en / Sizes in / Mesures en |  |
|-----------------|------|-------------------------------------------------------------------------------------|------------|------------------------------------|---------------------------------------------------------------------------------------|
| <b>AD500767</b> | 20   | 51074                                                                               | 930 x 490  | mm                                 | 7,0                                                                                   |

| PCS. | Composición / Composition / Composition                                                                      | Descripción / Description / Description                       |    |
|------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----|
| 9    | AD613017, AD613027, AD613037, AD613047, AD613057, AD613067, AD613087, AD613097, AD613107                     | Llaves vaso doble articulación / Double ended swivel wrenches | mm |
| 11   | AD607707, AD607717, AD607727, AD607737, AD607747, AD607757, AD607767, AD607787, AD607797, AD607807, AD607827 | Llave de estrella plana / Double ended flat ring spanner      |    |





| COD.            | PCS. |  | L x W (mm) | Medidas en / Sizes in / Mesures en |  |
|-----------------|------|-------------------------------------------------------------------------------------|------------|------------------------------------|---------------------------------------------------------------------------------------|
| <b>AD500777</b> | 20   | 51074                                                                               | 1220 x 490 | mm                                 | 10                                                                                    |

| PCS. | Composición / Composition / Composition                              | Descripción / Description / Description |       |
|------|----------------------------------------------------------------------|-----------------------------------------|-------|
| 14   | AD766217, AD766237, AD766257, AD766277, AD767387, AD766307, AD766317 | Destornilladores / Screwdrivers         |       |
| 4    | AD765517, AD765537                                                   | Llaves ajustables / Adjustable wrenches | 1000V |
| 2    | AD730097, AD730087                                                   | Tenazas cortacables / Cable cutters     |       |





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| COD.            | PCS. |  | L x W (mm) | Medidas en / Sizes in / Mesures en |  |
|-----------------|------|-----------------------------------------------------------------------------------|------------|------------------------------------|-------------------------------------------------------------------------------------|
| <b>AD500787</b> | 20   | 51074                                                                             | 930 x 490  | mm/inch                            | 5,5                                                                                 |



| PCS. | Composición / Composition / Composition                                                                                                                                            | Descripción / Description / Description |       |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------|
| 18   | AD746987, AD746997, AD747007, AD747017, AD747027, AD747037, AD747047, AD747057, AD747067, AD747077, AD747087, AD747097, AD747107, AD747117, AD747127, AD747137, AD747147, AD747157 | Destornilladores / Screwdrivers         | 1000V |
| 2    | AD730357, AD730367                                                                                                                                                                 | Cuchillos / Knives                      |       |



| COD.            | PCS. |  | L x W (mm) | Medidas en / Sizes in / Mesures en |  |
|-----------------|------|-----------------------------------------------------------------------------------|------------|------------------------------------|-------------------------------------------------------------------------------------|
| <b>AD500797</b> | 15   | 51074                                                                             | 870 x 490  | mm/inch                            | 4,0                                                                                 |



| PCS. | Composición / Composition / Composition                                                                                                              | Descripción / Description / Description |       |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------|
| 15   | AD766207, AD766227, AD766267, AD766287, AD766327, AD766337, AD766347, AD766357, AD766367, AD766377, AD749847, AD749857, AD749877, AD749887, AD749897 | Destornilladores / Screwdrivers         | 1000V |



| COD.            | PCS. |  | L x W (mm) | Medidas en / Sizes in / Mesures en |  |
|-----------------|------|-----------------------------------------------------------------------------------|------------|------------------------------------|-------------------------------------------------------------------------------------|
| <b>AD500807</b> | 15   | 51074                                                                             | 870 x 490  | inch                               | 6,0                                                                                 |



| PCS. | Composición / Composition / Composition                              | Descripción / Description / Description      |       |
|------|----------------------------------------------------------------------|----------------------------------------------|-------|
| 2    | AD730017                                                             | Tenaza de pico de loro / Groove joint pincer | 1000V |
| 4    | AD730297, AD730307                                                   | Arco de sierra / Hack Saw                    |       |
| 7    | AD765957, AD765837                                                   | Alicates / Pliers                            |       |
| 7    | AD664397, AD664417, AD664427, AD664407, AD664437, AD553607, AD553617 | Destornilladores / Screwdrivers              | -     |



| COD.            | PCS. |  | L x W (mm) | Medidas en / Sizes in / Mesures en |  |
|-----------------|------|-------------------------------------------------------------------------------------|------------|------------------------------------|---------------------------------------------------------------------------------------|
| <b>AD500817</b> | 27   | 51074                                                                               | 870 x 490  | mm                                 | 3,0                                                                                   |

| PCS. | Composición / Composition / Composition          | Descripción / Description / Description                                                       |       |
|------|--------------------------------------------------|-----------------------------------------------------------------------------------------------|-------|
| 6    | 66112, 66108                                     | Cordón anticaída con mosquetón / Carabiner lanyard                                            | 1000V |
|      | 66113, 66109                                     | Cordón anticaída de nudo / Loop lanyard                                                       |       |
|      | 66078                                            | Cordón anticaída retráctil / Retractable lanyard                                              |       |
| 1    | 66062                                            | Cordón anticaída retráctil con mosquetón / Retractable lanyard with carabiner                 |       |
| 2    | 50998, 50999                                     | Accesorio de anillas para el cinturón portaherramientas / Accessory with rings for tools belt |       |
| 5    | AD668517, AD668507, AD668527, AD668467, AD668487 | Destornilladores mini / Mini screwdrivers                                                     |       |
| 4    | AD636757, AD635317, AD636037, AD636397           | Limas / Files                                                                                 |       |
| 1    | AD586417                                         | Linterna mini / Mini flashlight                                                               |       |
|      | AD660737                                         | Buscapolos / Voltage tester                                                                   |       |



| COD.            | PCS. |  | L x W (mm) |  |
|-----------------|------|-------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------|
| <b>AD500827</b> | 27   | 51074                                                                               | 870 x 490  | 3,5                                                                                  |

| PCS. | Composición / Composition / Composition | Descripción / Description / Description                                   |       |
|------|-----------------------------------------|---------------------------------------------------------------------------|-------|
|      | 50997                                   | Cinturón portaherramientas / Tool belt                                    | 1000V |
|      | AD651587                                | Nivel magnético torpedo / Torpedo Magnetic level                          |       |
| 1    | AD638767                                | Cortador con cuchilla auto-retráctil / Cutter with auto-retractable blade |       |
|      | AD623497                                | Alicates / Pliers                                                         |       |
|      | AD625007                                | Alicates Mastercut / Mastercut Pliers                                     |       |
|      | AD695347                                | Tijera electricista / Electrician's scissors                              |       |
| 20   | AD614957, AD614967                      | Juego llaves Allen bola / Set of hexagonal key wrenches ball type         |       |
| 1    | AD653587                                | Flexómetro Robust Bimat / Robust Bimat Measuring tape                     |       |





# 35

**HERRAMIENTAS ANTI-CAÍDA ANTIDROP**  
**ANTIDROP TOOLS**  
**OUTILS ANTI-CHUTE ANTIDROP**  
**ANTIDROP WERKZEUG-SICHERUNG**  
**UTENSILI ANTI-CADUTA ANTIDROP**  
**FERRAMENTAS ANTI-QUEDA ANTIDROP**  
**ПРОТИВОУДАРНЫЕ ИНСТРУМЕНТЫ**



## ACO

**JUEGOS DE HERRAMIENTAS ANTI-CAÍDA ANTIDROP / ANTIDROP TOOLS SETS / SETS OUTILS ANTI-CHUTE ANTIDROP / ANTIDROP WERKZEUGSICHERUNG / KIT DI UTENSILI ANTI-CADUTA ANTIDROP / JOGO DE FERRAMENTA ANTI-QUEDA ANTIDROP / ПРОТИВОУДАРНЫЕ ИНСТРУМЕНТЫ**

68 PCS.



| COD.     | PCS. |       | N.º | Composición / Composition / Composition                             | Medidas en / Sizes in / Mesures en |    |
|----------|------|-------|-----|---------------------------------------------------------------------|------------------------------------|----|
| AD500327 | 68   | 51039 | 7   | AD500207, AD500217, AD500407, AD00427, AD500257, AD500267, AD500297 | mm                                 | 90 |

62 PCS.



| COD.     | PCS. |       | N.º | Composición / Composition / Composition                              | Medidas en / Sizes in / Mesures en |    |
|----------|------|-------|-----|----------------------------------------------------------------------|------------------------------------|----|
| AD500337 | 62   | 51039 | 7   | AD500207, AD500227, AD500417, AD500427, AD500257, AD500437, AD500297 | inch                               | 90 |

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# 35

**HERRAMIENTAS ANTI-CAÍDA ANTIDROP**  
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**ПРОТИВОУДАРНЫЕ ИНСТРУМЕНТЫ**



## ACO

64 PCS.



| COD.     | PCS. |       | N.º | Composición / Composition / Composition                              | Medidas en / Sizes in / Mesures en |    |
|----------|------|-------|-----|----------------------------------------------------------------------|------------------------------------|----|
| AD500347 | 64   | 51039 | 7   | AD500287, AD500237, AD500467, AD500427, AD500257, AD500267, AD500277 | mm                                 | 90 |

58 PCS.



| COD.     | PCS. |       | N.º | Composición / Composition / Composition                              | Medidas en / Sizes in / Mesures en |    |
|----------|------|-------|-----|----------------------------------------------------------------------|------------------------------------|----|
| AD500357 | 58   | 51039 | 7   | AD500447, AD500247, AD500457, AD500427, AD500257, AD500437, AD500277 | inch                               | 90 |

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## ACO



| COD.     | PCS. |       | N.º | Composición / Composition / Composition                              | Medidas en / Sizes in / Mesures en |    |
|----------|------|-------|-----|----------------------------------------------------------------------|------------------------------------|----|
| AD500377 | 58   | 51039 | 7   | AD500207, AD500417, AD500257, AD500427, AD500317, AD500457, AD500297 | inch                               | 90 |

73 PCS.



| COD.     | PCS. |       | N.º | Composición / Composition / Composition                              | Medidas en / Sizes in / Mesures en |    |
|----------|------|-------|-----|----------------------------------------------------------------------|------------------------------------|----|
| AD500367 | 73   | 51039 | 7   | AD500207, AD500407, AD500257, AD500427, AD500307, AD500467, AD500297 | mm                                 | 95 |

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1023

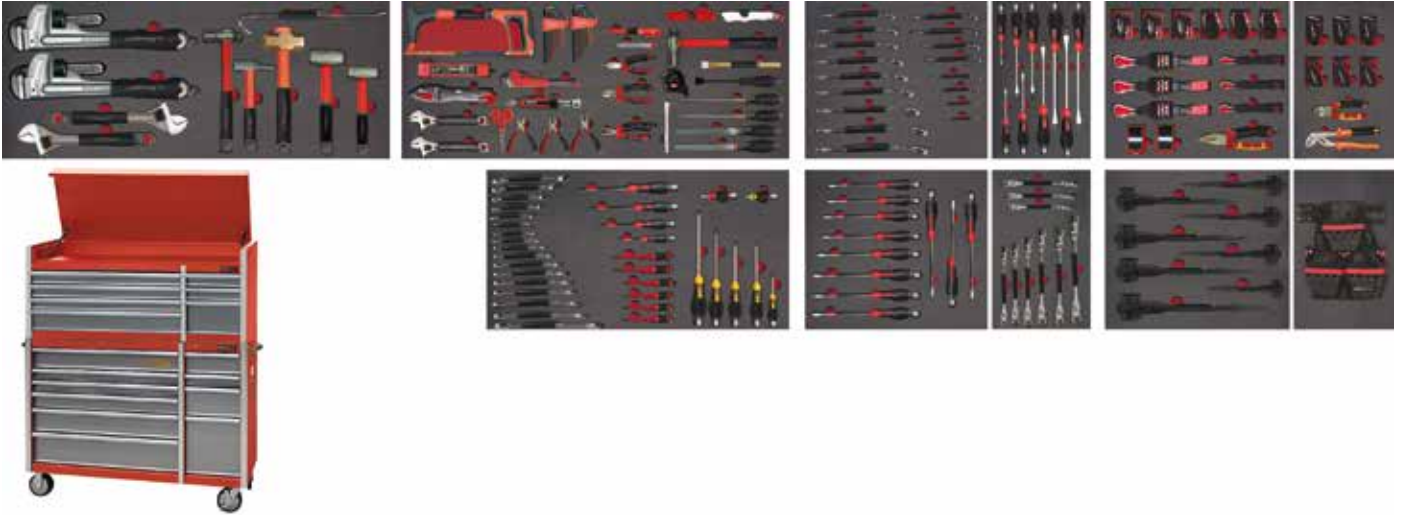
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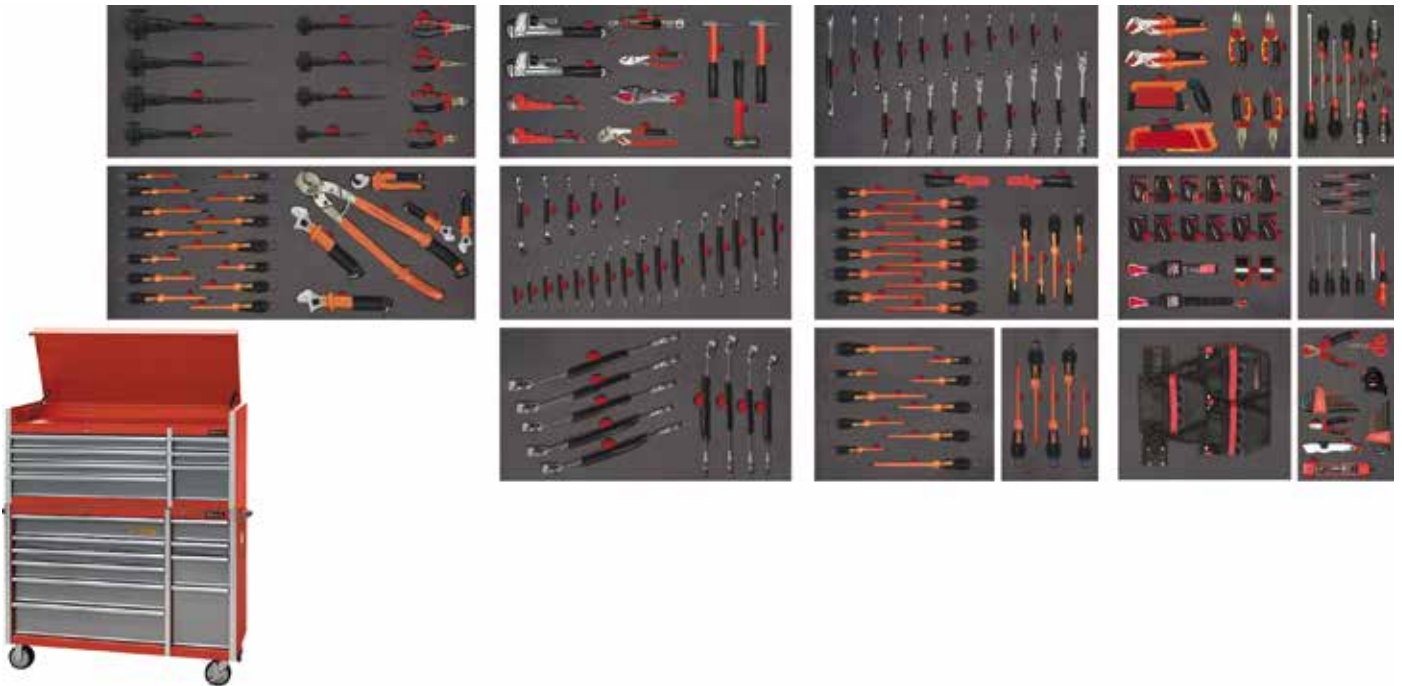
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169 PCS.



| COD.     | PCS. |       | N.º | Composición / Composition / Composition                              | Medidas en / Sizes in / Mesures en |     |
|----------|------|-------|-----|----------------------------------------------------------------------|------------------------------------|-----|
| AD500387 | 169  | 51074 | 7   | AD500657, AD500667, AD500677, AD500687, AD500697, AD500707, AD500717 | mm/inch                            | 300 |

197 PCS.



| COD.     | PCS. |       | N.º | Composición / Composition / Composition                                                                      | Medidas en / Sizes in / Mesures en |     |
|----------|------|-------|-----|--------------------------------------------------------------------------------------------------------------|------------------------------------|-----|
| AD500397 | 197  | 51074 | 11  | AD500727, AD500737, AD500747, AD500757, AD500767, AD500777, AD500787, AD500797, AD500807, AD500817, AD500827 | mm/inch                            | 300 |

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**HERRAMIENTAS ANTI-CAÍDA ANTIDROP**  
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ACO

■ 32 PCS.



| COD.     | PCS.                                                                                               |              | Medidas en / Sizes in / Mesures en                                                            |    |      |
|----------|----------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------|----|------|
| AD591697 | 32                                                                                                 | 58591, 51055 | inch                                                                                          | 27 |      |
| PCS.     | Composición / Composition / Composition                                                            |              | Descripción / Description / Description                                                       |    |      |
| 1        | 50997                                                                                              |              | Cinturón portaherramientas / Tool belt                                                        |    |      |
| 2        | 50999                                                                                              |              | Accesorio de anillas para el cinturón portaherramientas / Accessory with rings for tools belt |    |      |
| 4        | 66105                                                                                              |              | Cordón anticaída con cuerda escalada con mosquetón / Climbing rope carabiner lanyard          |    |      |
|          | 66116                                                                                              |              | Cordón anticaída con mosquetón y quitavuelas / Carabiner lanyard with swivel                  |    |      |
| 2        | 66117                                                                                              |              | Cordón anticaída de nudo y quitavuelas / Loop lanyard with swivel                             |    |      |
|          | AD611137, AD611157                                                                                 |              | Llaves ajustables / Adjustable wrenches                                                       |    |      |
| 1        | AD621727                                                                                           |              | Tenaza grip / Grip plier                                                                      |    |      |
|          | AD632627                                                                                           |              | Palanca de encofrador / Wrecking bar                                                          |    |      |
| 2        | AD664067, AD664027                                                                                 |              | Destornilladores mecánicos / Slotted screwdrivers                                             |    |      |
| 1        | AD664407                                                                                           |              | Destornillador Phillips® / Phillips® screwdriver                                              |    |      |
| 2        | AD685307, AD685327                                                                                 |              | Mazas de caras octogonales / Sledge hammers                                                   |    |      |
|          | AD696677, AD696697                                                                                 |              | Macetas cuadradas tipo alemán / German type stoning hammers                                   |    |      |
| 10       | AD603827, AD603837, AD603847, AD603867, AD603877, AD603907, AD603917, AD603927, AD603947, AD678877 |              | Llaves acodadas / Double offset ring wrenches                                                 |    | inch |

• Para más información de dimensiones y características del producto, consultar en el capítulo correspondiente del catálogo general o en [www.egamaster.com](http://www.egamaster.com). / For more details about features and dimensions of the products, check the corresponding chapter of the General Catalogue or [www.egamaster.com](http://www.egamaster.com). / Pour plus d'informations sur les dimensions et les caractéristiques du produit, consulter le chapitre correspondant de notre catalogue général ou sur [www.egamaster.com](http://www.egamaster.com).

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**EGAMaster**  
 ART IN INNOVATION

1025

# 35

**HERRAMIENTAS ANTI-CAÍDA ANTIDROP**  
**ANTIDROP TOOLS**  
**OUTILS ANTI-CHUTE ANTIDROP**  
**ANTIDROP WERKZEUG-SICHERUNG**  
**UTENSILI ANTI-CADUTA ANTIDROP**  
**FERRAMENTAS ANTI-QUEDA ANTIDROP**  
**ПРОТИВОУДАРНЫЕ ИНСТРУМЕНТЫ**



## ACO

93 PCS.



| COD.     | PCS.                                                                                                                                                                     | Measures / Medidas en / Mesures en                                                                | Kg    |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------|
| AD591667 | 93                                                                                                                                                                       | 58874, 51055 mm                                                                                   | 70    |
| PCS.     | Composición / Composition / Composition                                                                                                                                  | Descripción / Description / Description                                                           |       |
|          | 50997                                                                                                                                                                    | Cinturón portaherramientas / Tool belt                                                            | -     |
| 2        | 50999                                                                                                                                                                    | Accesorio de anillas para el cinturón portaherramientas / Accessory with rings for tools belt     | -     |
|          | 58738                                                                                                                                                                    | Punta atornilladora de impacto con vaso / Impact socket bits                                      | 3/4"  |
| 4        | 65944, 65945                                                                                                                                                             | Puntas atornilladoras de impacto con vaso / Impact socket bits                                    | 1/2"  |
| 2        | 66811, 66812                                                                                                                                                             | Puntas atornilladoras con vaso / Socket bits                                                      |       |
|          | 60516                                                                                                                                                                    | Llaves de vaso / Socket wrenches                                                                  | 3/4"  |
|          | 61822                                                                                                                                                                    |                                                                                                   | 1/2"  |
|          | 61456                                                                                                                                                                    | Mango articulado / Swivel handle                                                                  | 3/4"  |
|          | 61441                                                                                                                                                                    |                                                                                                   | 1/2"  |
|          | 61866                                                                                                                                                                    | Alargadera / Extension                                                                            | 3/4"  |
|          | 61455                                                                                                                                                                    |                                                                                                   | 1/2"  |
|          | 61859                                                                                                                                                                    | Llave de carraca reversible / Reversible ratchet handle                                           | 3/4"  |
| 1        | 62606                                                                                                                                                                    |                                                                                                   | 1/2"  |
|          | 63380                                                                                                                                                                    | Botador cilíndrico / Pin punches                                                                  |       |
|          | 63408                                                                                                                                                                    | Botador cónico y moleteado / Taper punches                                                        |       |
|          | 66062                                                                                                                                                                    | Lanyard retráctil con mosquetón / Retractable lanyard with carabiner                              |       |
|          | 66063                                                                                                                                                                    | Accesorio cordón anticaída retráctil / Retractable lanyard accessory                              |       |
|          | 66078                                                                                                                                                                    | Lanyard retráctil / Retractable lanyard                                                           | -     |
|          | 66064                                                                                                                                                                    | Accesorio cordón anticaída retráctil con mosquetón / Retractable lanyard with carabiner accessory |       |
| 2        | 66105                                                                                                                                                                    | Cordón anticaída con cuerda escalada con mosquetón / Climbing rope carabiner lanyard              |       |
|          | 66116                                                                                                                                                                    | Cordón anticaída con mosquetón y quitavueltas / Carabiner lanyard with swivel                     |       |
| 3        | 66117                                                                                                                                                                    | Cordón anticaída de nudo y quitavueltas / Loop lanyard with swivel                                |       |
|          | AD574377                                                                                                                                                                 | Llave de golpe seguridad total / Total safety slogging wrench                                     | mm    |
| 2        | AD610247, AD610257                                                                                                                                                       | Llaves de aluminio / Aluminium pipe wrenches                                                      | -     |
|          | AD611137, AD611157                                                                                                                                                       | Llaves ajustables / Adjustable wrenches                                                           |       |
| 19       | AD617267, AD617277, AD617297, AD617327, AD617337, AD617357, AD617367, AD617387, AD617407, AD617417, AD617427, AD617437, AD617447, AD617457, AD617467, AD617497, AD617507 | Llaves combinadas / Combination wrenches                                                          | mm    |
| 1        | AD620917                                                                                                                                                                 | Alicate tipo ford / Slip joint plier                                                              | -     |
|          | AD623337                                                                                                                                                                 | Alicate universal / Universal pliers                                                              |       |
| 2        | AD765847, AD765957                                                                                                                                                       | Alicates universales / Universal pliers                                                           | 1000V |
|          | AD623407                                                                                                                                                                 | Alicate telefonista / Long nose pliers                                                            |       |
| 1        | AD623707                                                                                                                                                                 | Alicate corte diagonal / Diagonal cutting pliers                                                  | -     |
|          | AD621727                                                                                                                                                                 | Tenaza grip / Grip plier                                                                          |       |

**ACO**

| PCS. | Composición / Composition / Composition | Descripción / Description / Description                               |       |
|------|-----------------------------------------|-----------------------------------------------------------------------|-------|
| 1    | AD632627                                | Palanca de encofrador / Wrecking bar                                  |       |
| 3    | AD634497, AD634517, AD634537            | Botadores cilíndricos con mango / Pin punch with handle               |       |
|      | AD634697                                | Granete / Center punch                                                |       |
| 1    | AD635377                                | Lima plana / Flat files                                               |       |
|      | AD636817                                | Lima redonda / Round files                                            |       |
|      | AD637427                                | Arco de sierra / Hack saw                                             |       |
| 8    | AD653527                                | Juego de llaves hexagonales en anilla / Set of hexagonal key wrenches | mm    |
| 3    | AD664067, AD664087, AD664097            | Destornilladores mecánicos / Slotted screwdrivers                     |       |
|      | AD664407, AD664417, AD664427            | Destornilladores Phillips® / Phillips® screwdrivers                   |       |
| 2    | AD685307, AD685327                      | Mazas de caras octogonales / Sledge hammers                           | -     |
|      | AD696677                                | Maceta cuadrada tipo alemán / German type stoning hammer              |       |
| 1    | AD697077                                | Martillo de bola / Ball pein hammer                                   |       |
|      | AD730047                                | Tenaza de canal / Box joint pincers                                   | 1000V |



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# 35

**HERRAMIENTAS ANTI-CAÍDA ANTIDROP**  
**ANTIDROP TOOLS**  
**OUTILS ANTI-CHUTE ANTIDROP**  
**ANTIDROP WERKZEUG-SICHERUNG**  
**UTENSILI ANTI-CADUTA ANTIDROP**  
**FERRAMENTAS ANTI-QUEDA ANTIDROP**  
**ПРОТИВОУДАРНЫЕ ИНСТРУМЕНТЫ**



## ACO

■ 207 PCS.



| COD.     | PCS.                                    |       | Medidas en / Sizes in / Mesures en                                                                |     |       |
|----------|-----------------------------------------|-------|---------------------------------------------------------------------------------------------------|-----|-------|
| AD591637 | 207                                     | 51117 | mm/inch                                                                                           | 170 |       |
| PCS.     | Composición / Composition / Composition |       | Descripción / Description / Description                                                           |     |       |
| 2        | 66063                                   |       | Accesorio cordón anticaída retráctil / Retractable lanyard accessory                              |     |       |
|          | 66064                                   |       | Accesorio cordón anticaída retráctil con mosquetón / Retractable lanyard with carabiner accessory |     |       |
| 5        | 50999                                   |       | Accesorio de anillas para el cinturón portaherramientas / Accessory with rings for tools belt     |     |       |
| 2        | 61455, 61458                            |       | Alargaderas / Extensions                                                                          |     | 1/2"  |
| 3        | AD623337, AD623407, AD623707            |       |                                                                                                   |     | -     |
| 4        | AD765847, AD765957                      |       | Alicates / Pliers                                                                                 |     | 1000V |
| 2        | 62181, 62183                            |       | Alicates circlips / Circlips pliers                                                               |     |       |
| 1        | AD620917                                |       | Alicates tipo ford / Slip joint pliers                                                            |     | -     |
|          | 62628                                   |       | Alicates trenzadores de alambre / Wire twist pliers                                               |     |       |
| 2        | AD730297, AD730307                      |       | Arcos de sierra / Hack saws                                                                       |     | 1000V |
| 1        | 61437                                   |       | Articulación universal / Universal joint                                                          |     | 1/2"  |
|          | 63380, 63408                            |       | Botadores / Punches                                                                               |     |       |
|          | 50997                                   |       | Cinturón portaherramientas / Tool belt                                                            |     |       |
| 2        | 66062                                   |       | Lanyard retráctil con mosquetón / Retractable lanyard with carabiner                              |     | -     |
|          | 66078                                   |       | Lanyard retráctil / Retractable lanyard                                                           |     |       |



**ACO**

| PCS. | Composición / Composition / Composition                                                                                                                                                     | Descripción / Description / Description                                              |                 |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------|
| 2    | 66105                                                                                                                                                                                       | Cordón anticaída con cuerda escalada con mosquetón / Climbing rope carabiner lanyard |                 |
| 9    | 66112, 66116                                                                                                                                                                                | Cordón anticaída con mosquetón y quitavueltas / Carabiner lanyard with swivel        | -               |
| 4    | 66117                                                                                                                                                                                       | Cordón anticaída de nudo y quitavueltas / Loop lanyard with swivel                   |                 |
| 1    | AD730427                                                                                                                                                                                    | Cortabridas / Plastic tie cutter                                                     | 1000V           |
|      | AD638767                                                                                                                                                                                    | Cortador / Cutter                                                                    |                 |
| 2    | AD665257, AD665267                                                                                                                                                                          | Destornilladores de carrocería / Stubby screwdrivers                                 | -               |
| 9    | AD751567, AD766247, AD766257, AD766267, AD766277                                                                                                                                            | Destornilladores electricista / Electrician screwdrivers                             | 1000V           |
| 5    | AD664027, AD664057, AD664067, AD664087, AD664097                                                                                                                                            | Destornilladores mecánicos / Slotted screwdrivers                                    |                 |
| 6    | AD668497, AD668467, AD668487, AD668507, AD668517, AD668527                                                                                                                                  | Destornilladores microtronic / Microtronic screwdrivers                              | -               |
| 3    | AD664397, AD664407, AD664417                                                                                                                                                                | Destornilladores Phillips® / Phillips® screwdrivers                                  |                 |
| 6    | AD766307, AD766317, AD767387                                                                                                                                                                | Destornilladores Phillips® / Phillips® screwdrivers                                  |                 |
| 4    | AD791637, AD791647                                                                                                                                                                          | Destornilladores planos-Phillips® / Slotted-Phillips® screwdrivers                   | 1000V           |
| 1    | 65165                                                                                                                                                                                       | Flexómetro / Measuring type                                                          | -               |
| 10   | AD615167                                                                                                                                                                                    | Juego de llaves hexagonales / Set hexagonal key wrenches                             | inch            |
|      | AD615007                                                                                                                                                                                    | Juego de llaves hexagonales / Set hexagonal key wrenches                             | mm              |
| 1    | 62968                                                                                                                                                                                       | Llave dinamométrica reversible / Reversible torque wrench                            | 1/2", 65-335 Nm |
| 4    | AD765517, AD765537                                                                                                                                                                          | Llaves ajustables / Adjustable wrenches                                              | 1000V           |
| 16   | AD603407, AD603417, AD603427, AD603437, AD603447, AD603457, AD603477, AD603487, AD603497, AD603517, AD603527, AD603537, AD603547, AD603557, AD603567, AD603587                              | Llaves combinadas / Combination wrenches                                             | inch            |
| 9    | AD617297, AD617327, AD617367, AD617387, AD617417, AD617437, AD617467, AD617497, AD617507                                                                                                    | Llaves combinadas / Combination wrenches                                             | mm              |
| 2    | AD610247                                                                                                                                                                                    | Llaves de aluminio / Aluminium pipe wrenches                                         | -               |
| 1    | 62606                                                                                                                                                                                       | Llaves de carraca reversible / Reversible ratchet handles                            |                 |
| 27   | 60481, 60482, 60483, 60484, 60485, 60486, 60487, 60488, 60491, 60492, 60494, 60495, 60496, 60497, 60498, 61802, 61803, 61804, 61805, 61806, 61809, 61811, 61814, 61816, 61819, 61822, 61823 | Llaves de vaso / Socket wrenches                                                     | 1/2"            |
| 9    | AD607707, AD607717, AD607727, AD607737, AD607747, AD607757, AD607777, AD607787, AD607807                                                                                                    | Llaves estrella plana / Double ended flat ring spanners                              | mm              |
| 2    | AD610157                                                                                                                                                                                    | Llaves heavy duty / Heavy duty wrenches                                              | -               |
| 5    | AD607857, AD607887, AD607897, AD607907, AD607927                                                                                                                                            | Llaves para racores / Flare nut spanners                                             |                 |
| 1    | 61441                                                                                                                                                                                       | Mango articulado / Swivel handle                                                     | 1/2"            |
| 1    | AD697087                                                                                                                                                                                    | Martillo / Hammer                                                                    |                 |
|      | 67204                                                                                                                                                                                       | Palancas boca curva / Pry bars                                                       | -               |
| 14   | 56895, 66807, 66808, 66809, 66811, 66812, 66813, 66814, 66830, 66831, 66832, 66833, 66836, 66837                                                                                            | Puntas atornilladoras con vaso / Sockets bits                                        | 1/2"            |
| 3    | AD730087, AD730097, AD761477                                                                                                                                                                | Tenazas cortacables / Cable cutters                                                  |                 |
| 2    | AD730047                                                                                                                                                                                    | Tenazas de canal / Box joint pincers                                                 | 1000V           |
|      | AD621727, AD620977                                                                                                                                                                          | Tenazas grip / Grip pincers                                                          |                 |
| 1    | AD586417                                                                                                                                                                                    | Linterna / Flashlight                                                                | -               |

**EGA Master**

**ART IN INNOVATION**

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# PROYECTOS PRINCIPALES

## *MAIN PROJECTS*

# PRINCIPAUX PROJETS



**NACIONES UNIDAS (ONU) / UNITED NATIONS (UN) /  
NATIONS UNIES (ONU)**

**PROYECTO DESMINADO CON HERRAMIENTAS ANTICHISPA /  
LANDMINE REMOVAL PROJECT WITH NON-SPARKING TOOLS /  
PROJET DE DÉMINAGE AVEC OUTILLAGE ANTIDÉFLAGRANT**  
IRAK / IRAQ / IRAK



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**ANTICHISPA AISLADA 1000V**  
**1000V INSULATED NON-SPARKING**  
**ANTI-DÉFLAGRANT ISOLÉ 1000V**  
**1000V FUNKENFREI**  
**ANTISCINTILLA 1000V ISOLATA**  
**FERRAMENTA ANTI-CHISPA ISOLADA 1000V**  
**1000V ВЫСОКОВОЛЬТНЫЙ ИСКРОБЕЗОПАСНЫЙ ИНСТРУМЕНТ**

 **1000 V**  
**IEC 60900**



Existen áreas de trabajo en las que los trabajadores se exponen a la combinación de varios factores de riesgo en lo que a seguridad y salud se refiere: los trabajos bajo tensión eléctrica dentro de entornos que presenten algún tipo de agente explosivo (como, por ejemplo, gases o polvos). Esta situación puede darse, por ejemplo, en las siguientes aplicaciones:

- Fabricación de pila/baterías.
- Mantenimiento y reparación de baterías.
- Mantenimiento eléctrico en zonas ATEX.

Esta gama proporciona herramientas aisladas certificadas de acuerdo a la norma internacional IEC 60900, asegurando al mismo tiempo propiedades anti-chispa para zonas clasificadas como ATEX. En cuanto a dimensiones y diseño son idénticas a las herramientas de gran calidad de la gama anti-chispa de **EGA Master**, pero con el aislamiento necesario y adecuado para poder trabajar bajo tensión, por lo que se mantienen tanto las propiedades mecánicas como las de seguridad. Fabricadas en Al-Br y Cu-Be, ambas aleaciones están certificadas por el Instituto Federal Alemán BAM, acreditado por la Unión Europea para la aprobación de productos dirigidos a ambientes con riesgo de explosión.



*Certain working areas show 2 different health and safety risks: they show voltage tension, while the environment may have an explosive agent present (such as gases or dusts). Such areas may appear in:*

- Manufacturing of batteries
- Battery repair and maintenance
- Electrical maintenance in ATEX areas.

*The EGA Master Non-sparking 1000V insulated tool range provides safe insulated tools, certified according to international IEC 60900 standard, while assuring total non-sparking properties for ATEX classified areas. Tools are exactly the same shape and design as the high-quality EGA Master non-sparking tools, but with the necessary and adequate insulation for jobs under voltage. Manufactured in Al-Br or Cu-Be, both alloys are certified by the German Federal BAM Institution, accredited by the European Union for the approval of products to be used in explosion hazard environments.*

Ils existent des zones de travail dans lesquels les travailleurs s'exposent à divers facteurs risque, en termes de sécurité et de santé: les travaux sous tension électrique situés dans des environnements qui présentent un certain type d'agent explosif (comme par exemple les gaz ou la poussière). Cette situation peut se dérouler, par exemple, dans les applications suivantes:

- Fabrication de pile/batteries
- Maintenance et réparation de batteries
- Maintenance électrique en zones ATEX

Cette gamme fournit des outils isolés certifiés conforme à la norme internationale IEC 60900, fournissant également des propriétés anti-déflagrantes pour les zones classifiées ATEX. Quant aux dimensions et au design, ils sont identiques aux outils de grande qualité de la gamme antidéflagrante d'**EGA Master**, mais avec l'isolation nécessaire et adéquate pour travailler sous tension, raison pour laquelle autant les propriétés mécaniques que de sécurité sont préservées. Fabriqués en Al-Br et Cu-Be, les deux alliages sont certifiés par l'Institut Fédéral Allemand BAM, accrédité par l'Union Européenne pour l'agrément des produits destinés aux environnements avec risque d'explosion.



**ALICATES / PLIERS / PINCES / ZANGEN / PINZE / ALICATES / ПЛОСКОГУБЦЫ**

**UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALE / UNIVERSAIS / КОМБИНИРОВАННЫЕ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | g   |
|-------|-------|-------|---------|--------|-----|
| 79030 |       | 79031 |         | 160    | 250 |
| 79032 | Cu-Be | 79033 | Al-Bron | 180    | 320 |
| 76240 |       | 76241 |         | 200    | 370 |

△ 1000V | IEC 60900 | Modelo registrado / Registered model / Modèle enregistré



**BOCA REDONDA / ROUND NOSE / BECS RONDS / RUNDZANGEN / BECCHI TONDI / PONTAS REDONDAS / КРУГЛОГУБЦЫ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | g   |
|-------|-------|-------|---------|--------|-----|
| 79036 | Cu-Be | 79037 | Al-Bron | 160    | 160 |

△ 1000V | IEC 60900 | Modelo registrado / Registered model / Modèle enregistré



**TELEFONISTA / LONG NOSE / TELEPHONE / TELEFONZANGEN / TELEFONISTI / TELEFONISTA / С УДЛИННЕННЫМИ НОСАМИ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | g   |
|-------|-------|-------|---------|--------|-----|
| 79038 |       | 79039 |         | 160    | 250 |
| 79040 | Cu-Be | 79041 | Al-Bron | 180    | 270 |
| 76242 |       | 76243 |         | 200    | 370 |

△ 1000V | IEC 60900 | Modelo registrado / Registered model / Modèle enregistré



**CORTE DIAGONAL / DIAGONAL CUTTING PLIERS / COUPANTES DIAGONALES / KRAFTSEITENSCHNEIDER / TAGLIO LATERALE / CORTE DIAGONAL / БОКОРЕЗЫ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | g   |
|-------|-------|-------|---------|--------|-----|
| 79042 | Cu-Be | 79043 | Al-Bron | 160    | 250 |

△ 1000V | IEC 60900 | Modelo registrado / Registered model / Modèle enregistré



**CORTE DIAGONAL REFORZADO / HEAVY DUTY CUTTING NIPPERS / COUPANTES RENFORCÉS / VERSTÄRKTER SEITENSCHNEIDER / TAGLIO LATERALE RINFORZATO / CORTE DIAGONAL REFORÇADO / УСИЛЕННЫЕ БОКОРЕЗЫ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | g   |
|-------|-------|-------|---------|--------|-----|
| 79044 | Cu-Be | 79045 |         | 160    | 260 |
| 79046 |       | 79047 | Al-Bron | 180    | 320 |

△ 1000V | IEC 60900 | Modelo registrado / Registered model / Modèle enregistré



**ALICATE GASISTA / GAS PIPE PLIERS / PINCE GAZIER / ROHRZANGE / PINZA PER GASISTA / ALICATE PARA TUBO DE GAZ / КЛЕЩИ ГАЗОВЫЕ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | g   |
|-------|-------|-------|---------|--------|-----|
| 79048 | Cu-Be | 79049 | Al-Bron | 210    | 370 |

△ 1000V | IEC 60900 | Modelo registrado / Registered model / Modèle enregistré



**ALICATE TIPO FORD / SLIP JOINT PLIER / PINCE MOTORISTE / MECHANIKERZANGE / PINZE PER GASISTI / ALICATE MOTORISTA / СКОЛЬЗЯЩИЕ КЛЕЩИ**

| COD.  | MAT.  | COD.  | MAT.    | L (inch) | g   |
|-------|-------|-------|---------|----------|-----|
| 79050 | Cu-Be | 79051 | Al-Bron | 8        | 250 |

△ 1000V | IEC 60900 | Modelo registrado / Registered model / Modèle enregistré



**PELACABLES / WIRESTRIPPER / PINCES À DÉNUDER / ABISOLIERZANGEN / PINZE SPELAFILI / DESCAPADORES / КЛЕЩИ ДЛЯ ЗАЧИСТКИ КОНТАКТОВ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | g   |
|-------|-------|-------|---------|--------|-----|
| 79052 | Cu-Be | 79053 | Al-Bron | 170    | 220 |

△ 1000V | IEC 60900 | Modelo registrado / Registered model / Modèle enregistré



# 36

**ANTICHISPA AISLADA 1000V**  
**1000V INSULATED NON-SPARKING**  
**ANTIDÉFLAGRANT ISOLÉ 1000V**  
**1000V FUNKENFREI**  
**ANTISCINTILLA 1000V ISOLATA**  
**FERRAMENTA ANTI-CHISPA ISOLATA 1000V**  
**1000В ВЫСОКОВОЛЬТНЫЙ ИСКРБЕЗОПАСНЫЙ ИНСТРУМЕНТ**



**■ TENAZA DE CANAL / BOX JOINT / MULTIPRISE ENTREPASSÉE / WASSERPUMPENZANGE / PINZE REGOLABILI / BICO DE PAPAGAIO / ШАРНИРНЫЕ**

| COD.  | MAT.  | COD.  | MAT.    | L (inch) |     |
|-------|-------|-------|---------|----------|-----|
| 79358 | Cu-Be | 79359 | Al-Bron | 10       | 350 |



⚡ 1000V | IEC 60900

**■ LLAVE AJUSTABLE / ADJUSTABLE WRENCH / CLÉ À MOLETTE / ROLLGABELSCHLÜSSEL / CHIAVI REGOLABILI A RULLINO / CHAVE AJUSTAVEL / РАЗВОДНЫЕ КЛЮЧИ**

| COD.  | MAT.  | COD.  | MAT.    | L (inch) |     |     |
|-------|-------|-------|---------|----------|-----|-----|
| 79361 | Cu-Be | 79363 | Al-Bron | 8        | 25  | 330 |
| 79362 |       | 10    |         | 30       | 550 |     |



⚡ 1000V | IEC 60900

**■ DESTORNILLADORES / SCREWDRIVERS / TOURNEVIS / SCHRAUBENZIEHER / CACCIAVITI / CHAVES DE FENDA / ОТВЕРТКИ**

**■ MECÁNICO / SLOTTED / MECANICIEN / FÜR SCHLITZSCHRAUBEN / PER MECCANICI / МЕХАНИКО / ПЛОСКАЯ**

**■ PHILLIPS\*\***



| COD.  | MAT.  | COD.    | MAT.    |        |    |
|-------|-------|---------|---------|--------|----|
| 79155 | Cu-Be | 79156   | Al-Bron | 3 x 75 | 35 |
| 72227 |       | 4 x 100 |         | 60     |    |
| 79157 |       | 5 x 100 |         | 75     |    |
| 79159 |       | 6 x 150 |         | 110    |    |
| 79161 |       | 8 x 200 |         | 165    |    |

⚡ 1000V | IEC 60900

| COD.  | MAT.  | COD.  | MAT.    |      |    |
|-------|-------|-------|---------|------|----|
| 72225 | Cu-Be | 72224 | Al-Bron | PH-0 | 50 |
| 79147 |       | PH-1  |         | 75   |    |
| 79149 |       | PH-2  |         | 110  |    |
| 79151 |       | PH-3  |         | 165  |    |
| 79153 |       | PH-4  |         | 245  |    |

⚡ 1000V | IEC 60900

**■ JUEGOS ELECTRICIDAD / ELECTRICIAN SETS / SETS ÉLECTRICIENS / WERKZEUGSÄTZE FÜR ELEKTRIZITÄT / KIT ELETTRICISTI / JOGOS ÉTRICIDADE / НАБОР ЭЛЕКТРИКА**

■ 13 PCS.



| COD.  | PCS. |       | MAT.  |     |
|-------|------|-------|-------|-----|
| 79087 | 13   | 51054 | Cu-Be | 5,7 |

| COD.  | PCS. |       | MAT.    |     |
|-------|------|-------|---------|-----|
| 79088 | 13   | 51054 | Al-Bron | 5,7 |

| COD.  | PCS. | Descripción / Description / Description         |            |
|-------|------|-------------------------------------------------|------------|
| 76240 |      | Alicate universal / Combination pliers          |            |
| 79042 |      | Alicate corte diagonal / Diagonal cutting plier | -          |
| 79052 |      | Pelacables / Wirestripper                       |            |
| 79362 |      | Llave ajustable / Adjustable wrench             | 10"        |
| 79358 |      | Tenaza de canal / Box joint                     |            |
| 79147 |      |                                                 | PH1        |
| 79149 |      |                                                 | PH2        |
| 79151 |      |                                                 | PH3        |
| 79155 |      | Destornilladores / Screwdrivers                 | 3 x 75 mm  |
| 72227 |      |                                                 | 4 x 100 mm |
| 79157 |      |                                                 | 5 x 100 mm |
| 79159 |      |                                                 | 6 x 150 mm |
| 79161 |      |                                                 | 8 x 200 mm |

| COD.  | PCS. | Descripción / Description / Description         |            |
|-------|------|-------------------------------------------------|------------|
| 76241 |      | Alicate universal / Combination pliers          |            |
| 79043 |      | Alicate corte diagonal / Diagonal cutting plier | -          |
| 79053 |      | Pelacables / Wirestripper                       |            |
| 79364 |      | Llave ajustable / Adjustable wrench             | 10"        |
| 79359 |      | Tenaza de canal / Box joint                     |            |
| 79148 |      |                                                 | PH1        |
| 79150 |      |                                                 | PH2        |
| 79152 |      |                                                 | PH3        |
| 79156 |      | Destornilladores / Screwdrivers                 | 3 x 75 mm  |
| 72226 |      |                                                 | 4 x 100 mm |
| 79158 |      |                                                 | 5 x 100 mm |
| 79160 |      |                                                 | 6 x 150 mm |
| 79162 |      |                                                 | 8 x 200 mm |

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminium bronzo / Сплав Алюминий Бронза  
 \*Para tornillos PHILLIPS® (Marca registrada por Phillips Screw Company) / \*For screws PHILLIPS® (Phillips Screw Company registered trademark) / \*Pour vis PHILLIPS® (Marque enregistrée par Phillips Screw Company)

# 36

**ANTICHISPA AISLADA 1000V**  
**1000V INSULATED NON-SPARKING**  
**ANTIDÉFLAGRANT ISOLÉ 1000V**  
**1000V FUNKENFREI**  
**ANTISCINTILLA 1000V ISOLATA**  
**FERRAMENTA ANTI-CHISPA ISOLADA 1000V**  
**1000В ВЫСОКОВОЛЬТНЫЙ ИСКРБЕЗОПАСНЫЙ ИНСТРУМЕНТ**



■ **LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ**

■ **FIJA DE UNA BOCA / SINGLE ENDED OPEN JAW SPANNER / À FOURCHE / EINMAULSCHLÜSSEL / FISSE SEMPLICE / FIXA DE UMA BOCA / ОДНОРОЖКОВЫЙ КЛЮЧ**



■ **ESTRELLA DE UNA BOCA ACODADA / OFFSET SINGLE END RING WRENCH / CLÉ POLYAGONALE CONTRE-COUDÉE / EINRINGSCHLÜSSEL, GEKRÖPFT / CHIAVE A GOMITO A STELLA UNA BOCCA / CHAVE LUNETA BOCA INCLINADA / КЛЮЧ ИЗГНУТАЯ ОДИНАРНАЯ ЗВЕЗДОЧКА**



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | g   |
|-------|-------|-------|---------|-------|--------|-----|
| 79250 |       | 79277 |         | 6     | 90     | 50  |
| 79251 |       | 79278 |         | 7     |        |     |
| 79252 |       | 79279 |         | 8     | 95     |     |
| 79253 |       | 79280 |         | 9     | 105    |     |
| 79254 |       | 79281 |         | 10    |        |     |
| 79255 |       | 79282 |         | 11    | 110    |     |
| 79256 |       | 79283 |         | 12    | 115    |     |
| 79257 |       | 79284 |         | 13    | 125    |     |
| 79258 |       | 79285 |         | 14    | 130    | 60  |
| 79259 |       | 79286 |         | 15    | 135    |     |
| 79260 |       | 79287 |         | 16    | 140    |     |
| 79261 |       | 79288 |         | 17    | 145    |     |
| 79262 | Cu-Be | 79289 | Al-Bron | 18    | 155    |     |
| 79263 |       | 79290 |         | 19    | 160    |     |
| 79264 |       | 79291 |         | 20    | 170    | 80  |
| 79265 |       | 79292 |         | 21    | 175    | 95  |
| 79266 |       | 79293 |         | 22    | 185    | 110 |
| 79267 |       | 79294 |         | 23    | 195    | 160 |
| 79268 |       | 79295 |         | 24    | 200    |     |
| 79269 |       | 79296 |         | 25    | 215    | 210 |
| 79270 |       | 79297 |         | 26    | 225    |     |
| 79271 |       | 79298 |         | 27    |        |     |
| 79272 |       | 79299 |         | 28    | 235    | 260 |
| 79273 |       | 79300 |         | 29    | 245    | 280 |
| 79274 |       | 79301 |         | 30    | 255    |     |
| 79275 |       | 79302 |         | 32    | 275    | 310 |

| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | g   |
|-------|-------|-------|---------|-------|--------|-----|
| 79304 |       | 79331 |         | 6     |        | 35  |
| 79305 |       | 79332 |         | 7     | 100    |     |
| 79306 |       | 79333 |         | 8     |        | 50  |
| 79307 |       | 79334 |         | 9     | 110    |     |
| 79308 |       | 79335 |         | 10    |        | 55  |
| 79309 |       | 79336 |         | 11    |        | 60  |
| 79310 |       | 79337 |         | 12    | 120    | 80  |
| 79311 |       | 79338 |         | 13    |        | 85  |
| 79312 |       | 79339 |         | 14    |        | 100 |
| 79313 |       | 79340 |         | 15    | 150    |     |
| 79314 |       | 79341 |         | 16    |        | 150 |
| 79315 |       | 79342 |         | 17    | 170    |     |
| 79316 | Cu-Be | 79343 | Al-Bron | 18    |        | 210 |
| 79317 |       | 79344 |         | 19    |        |     |
| 79318 |       | 79345 |         | 20    | 200    | 270 |
| 79319 |       | 79346 |         | 21    |        |     |
| 79320 |       | 79347 |         | 22    |        |     |
| 79321 |       | 79348 |         | 23    | 230    | 300 |
| 79322 |       | 79349 |         | 24    |        | 400 |
| 79323 |       | 79350 |         | 25    |        | 410 |
| 79324 |       | 79351 |         | 26    | 280    | 440 |
| 79325 |       | 79352 |         | 27    |        |     |
| 79326 |       | 79353 |         | 28    | 300    | 530 |
| 79327 |       | 79354 |         | 29    |        |     |
| 79328 |       | 79355 |         | 30    | 310    | 730 |
| 79329 |       | 79356 |         | 32    | 320    |     |

⚠ 1000V | IEC 60900

⚠ 1000V | IEC 60900



Cu-Be Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
 Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

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# PROYECTOS PRINCIPALES

## *MAIN PROJECTS*

# PRINCIPAUX PROJETS



**HYUNDAI HEAVY INDUSTRIES / HYUNDAI HEAVY  
INDUSTRIES / HYUNDAI HEAVY INDUSTRIES**  
**HERRAMIENTA ANTICHISPA / NON-SPARKING  
TOOLS / OUTILLAGE ANTIDÉFLAGRANT**  
COREA / KOREA / CORÉE





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**ANTICHISPA  
NON-SPARKING  
ANTI-DEFLAGRANT  
FUNKENFREI  
ANTISCINTILLA  
ANTI-DEFLAGRANTE  
ИСКРОБЕЗОПАСНЫЙ**



Si no encuentra la medida o herramienta que necesita, consúltenos.  
*If you can not find the size or tool you require please consult with us.*  
Si vous ne trouvez pas la dimension ou l'outils dont vous avez besoin, consultez-nous.

Las herramientas Antichispa **EGA Master** son la mejor alternativa para las aplicaciones en entornos de potencial explosivo. Incorporamos a nuestras herramientas antichispa todo nuestro conocimiento de décadas diseñando y fabricando herramientas de mano, ergonómicas, fáciles de usar y con el diseño más atractivo.

*EGA Master Non-Sparking Tools are the best alternative for non-sparking application purposes in potentially explosive environments. We incorporate to our non-sparking tools all our knowledge of decades designing and manufacturing hand tools, making the most ergonomic and nicest design for them.*

L'outillage anti-déflagrant **EGA Master** est la meilleure alternative pour l'application en milieux explosifs. Nous apportons notre longue expérience dans la conception et la fabrication d'outillage à main dans le domaine de l'ergonomie, de la facilité d'utilisation et du Design.

■ **MATERIALES**  
MATERIALS  
MATERIAUX

| Aleación Cobre-Berilio / Copper-Beryllium Alloy / Alliage Cuivre-Béryllium |                |                        |
|----------------------------------------------------------------------------|----------------|------------------------|
| Composición / Composition / Composition                                    | Be             | 1,8 % - 2,3 %          |
|                                                                            | Ni+Co          | > 0,2 %                |
|                                                                            | Co+Ni+Fe       | < 1,2 %                |
|                                                                            | Cu+Be+Co+Ni+Fe | ≥ 99,0 %               |
| Dureza / Hardness / Dureté                                                 |                | 311- 408 Brinell       |
| Resistencia a la tracción / Tensile Strength / Resistance à la traction    |                | 1250 N/mm <sup>2</sup> |

| Aleación Aluminio-Bronce / Aluminium-Bronze Alloy / Alliage aluminium-bronze |                |                       |
|------------------------------------------------------------------------------|----------------|-----------------------|
| Composición / Composition / Composition                                      | Al             | 10 % - 12 %           |
|                                                                              | Ni             | 4 % - 6 %             |
|                                                                              | Fe+Mn          | 5,8 % - 7 %           |
|                                                                              | Cu+Al+Ni+Fe+Mn | ≥ 99,0 %              |
| Dureza / Hardness / Dureté                                                   |                | 241-311 Brinell       |
| Resistencia a la tracción / Tensile Strength / Resistance à la traction      |                | 800 N/mm <sup>2</sup> |

■ **NOTA IMPORTANTE / IMPORTANT NOTE / AVIS IMPORTANT**

Por sus características especiales de dureza y resistencia (sensiblemente inferiores a los que se pueden obtener en herramientas de acero), las herramientas antichispa no pueden ser garantizadas contra ninguna deformación ni rotura. Sólo se repondrán en concepto de garantía aquellas herramientas antichispa cuya dureza Brinell sea inferior (o exceda) a la indicada en nuestro catálogo: 311-408 Brinell en el caso de las fabricadas en Cobre-Berilio y 241-311 Brinell en las fabricadas en Aluminio Bronce.

*The hardness and resistance that can be achieved with the materials used to manufacture non-sparking tools is significantly lower than that which can be obtained in tools made of steel. Due to these special characteristics of the material employed, non-sparking tools can not be guaranteed against any deformation or breakage. Non-sparking tools will be replaced under guarantee only when the hardness of the damaged tool does not reach (or exceeds) the one indicated in our catalogue: 311-408 Brinell for those made in Copper-Beryllium and 241-311 Brinell for those made in Aluminum Bronze.*

Du fait de sa dureté et sa résistance spécifiques (sensiblement inférieures à celles d'outils en acier), les outils anti-déflagrants ne peuvent être garantis contre toute déformation ou rupture. Seulement seront pris en garantie, les outils anti-déflagrants dont la dureté est inférieure (ou excède) à celle indiquée dans notre catalogue: 311-408 Brinell pour le Cuivre - Béryllium et 241-311 Brinell pour l'Aluminium - Bronze.



■ **PROPIEDADES Y CARACTERÍSTICAS**  
**PROPERTIES AND FEATURES**  
**PROPRIÉTÉS ET CARACTÉRISTIQUES**

| Propiedad / Property / Propriété                                                  | Aplicación o beneficio / Application or benefits / Application ou bienfait                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Antichispa / Non-sparking / Anti-déflagrant                                       | Apropiado para entornos de potencial explosivo / <i>Appropriate for explosive potential environments</i> / Approprié pour un environnement explosif                                                                                                                                                                                                                                                                                                                                            |
| Seguridad anti-magnética / <i>Non-magnetic safety</i> / Sécurité anti-magnétique  | Esencial para equipos que requieren una completa seguridad no magnética / <i>Essential for equipments that require complete non-magnetic safety</i> / Essentiel pour des équipements qui nécessitent une complète sécurité, sauf magnétique                                                                                                                                                                                                                                                    |
| Resistente a la corrosión / <i>Corrosion resistant</i> / Résistant à la corrosion | Especialmente concebidos para aplicaciones en entornos corrosivos como pueden ser en trabajos en la marina o de aplicaciones de bomberos / <i>Specially well suited for applications in corrosive environments like encountered in marine works or fire-fighting applications</i> / Spécialement conçu pour des environnements corrosifs, comme des travaux en air salin ou pratiqués par les pompiers                                                                                         |
| Forjado después de la fundición / <i>Forged after casting</i> / Forgé après fonte | Proporcionan grandes propiedades mecánicas y gran acabado / <i>Provides higher mechanical properties and better finishing</i> / Cet outillage forgé a une grande résistance mécanique et une meilleure finition                                                                                                                                                                                                                                                                                |
| Diseños Ergonómicos / <i>Ergonomic designs</i> / Formes ergonomiques              | La utilización de dos materiales antideslizantes para los mangos, diseño totalmente ergonómico para hacer las operaciones más fácilmente, más rápido y confortable / <i>The use of bi-material anti-slippery handles, dipping anti-slippery handles, totally ergonomic designs make operations easier, more comfortable and master</i> / L'utilisation de deux matériaux anti-dérapants pour le manche, le design totalement ergonomique pour un travail plus aisé, plus rapide et confortable |

■ **DIFERENCIAS Y ELECCIÓN DE LA OPCIÓN CORRECTA**  
**DIFFERENCES AND HOW TO MAKE THE CORRECT CHOICE**  
**DIFFÉRENCES ET SÉLECTION DE L'OPTION CORRECTE**

| Concepto / Concept / Concept                | Cu-Be                                                                                                                                                                                                                                                                                                                                                       | Al-Bron                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dureza / <i>Hardness</i> / Dureté           | 311- 408 Brinell                                                                                                                                                                                                                                                                                                                                            | 241-311 Brinell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Magnetismo / <i>Magnetism</i> / Magnétisme  | La ausencia férrea en la composición hace que sea más seguro cuando las aplicaciones no magnéticas son requeridas / <i>Non ferrous substance in the composition makes it safer when non-magnetic applications are required</i> / L'absence de substance ferrique dans sa composition, fait de lui un alliage plus sûr pour des utilisations non magnétiques | Mínimo componente de hierro hacen que no sea 100 % no magnético, aunque su bajo magnetismo lo hace apropiado para las aplicaciones de bajo magnetismo no críticas / <i>Minimum ferrous component makes them not 100% non-magnetic, although its low magnetism make it appropriate for non critical non-magnetic applications</i> / Le minimum de substance ferreuse fait qu'il n'est pas à 100% amagnétique, malgré tout, son faible magnétisme le rend approprié pour des travaux amagnétiques mais non critiques |
| Durabilidad / <i>Durability</i> / Longévité | Muy grande debido a la gran dureza y la resistencia a tracción. Grandes esfuerzos pueden ser proporcionados / <i>Much higher due to the higher hardness and tensile strength. Higher efforts can be made</i> / Grande longévité due à sa composition et à la dureté. Supporte des forces importantes                                                        | No tanto como el Cu-Be / <i>Not as much as Cu-Be</i> / Pas autant que le Cu-Be                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Precio / <i>Price</i> / Prix                | Gran precio debido al material especial usado / <i>Higher price due to the special raw material used</i> / Onérosité due aux matériaux spéciaux utilisés                                                                                                                                                                                                    | Sobre un 30 % más bajo / <i>Around 30% lower price</i> / Approx. 30% moins cher                                                                                                                                                                                                                                                                                                                                                                                                                                    |

■ **PRECAUCIÓN**  
**CAUTION**  
**PRÉCAUTION**

No usar herramientas que contengan más de un 65 % de cobre en contacto directo con acetileno debido a la posible formación de acetilida explosiva, especialmente en presencia de humedad.

Do not use high copper content tools (>65%) in direct contact with acetylene due to the possible formation of explosive acetylide, specially in the presence of moisture.

Ne pas utiliser les outils composés de cuivre (>65%), en contact direct avec l'Acétylène car il y a un risque d'explosion acétylétique surtout en présence d'humidité.

■ **TABLA DE RIESGOS DE EXPLOSIÓN Y MÁXIMA TEMPERATURA**  
**TABLE OF RISKS OF EXPLOSION AND MAXIMUM TEMPERATURE**  
**TABLEAU DE RISQUES D'EXPLOSION ET TEMPÉRATURE MAXIMALE**

| Grupo de ignición<br>Explosion group<br>Groupe d'explosion                                                                             | Clase de temperatura (máxima temperatura superficial admitida)<br>Class of temperature (maximum surface temperature allowed)<br>Classe de température maximum admise |                                                               |                                                                         |                                                     |                                                                          |            |
|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------|------------|
|                                                                                                                                        | T1 (450 °C)                                                                                                                                                          | T2 (300 °C)                                                   | T3 (200 °C)                                                             | T4 (135 °C)                                         | T5 (100 °C)                                                              | T6 (85 °C) |
| Temperatura de ignición<br>Temperature of ignition<br>Température d'ignition                                                           | 450 °C                                                                                                                                                               | 300-450 °C                                                    | 200-300 °C                                                              | 135-300 °C                                          | 100-135 °C                                                               | 85-100 °C  |
| <b>I</b>                                                                                                                               | Metano<br><i>Methane</i><br>Méthane                                                                                                                                  |                                                               |                                                                         |                                                     |                                                                          |            |
| <b>IIA</b><br>Energía de ignición superior a:<br><i>Energy of ignition higher than:</i><br>Energie d'ignition supérieure á:<br>0.18 mJ | Acetona<br><i>Acetone</i><br>Acétone                                                                                                                                 | i-amilacetato<br><i>i-amyl acetate</i><br>i-amylacétate       | Amilalcohol<br><i>Amyl alcohol</i><br>Amyl alcool                       | Acetaldehído<br><i>Acetaldehyde</i><br>Acétaldéhyde |                                                                          |            |
|                                                                                                                                        | Amoniaco<br><i>Ammonia</i><br>Ammoniac                                                                                                                               | n-butano<br><i>n-butane</i><br>n-butane                       | Gasolinas<br><i>Gasolines</i><br>Gasolines                              |                                                     |                                                                          |            |
|                                                                                                                                        | Benceno<br><i>Benzene</i><br>Benzène                                                                                                                                 | n-butanol<br><i>n-butanol</i><br>n-butanol                    | Gasóleo<br><i>Gas-oil</i><br>Gas-Oil                                    |                                                     |                                                                          |            |
|                                                                                                                                        | Etilacetato<br><i>Ethylacetate</i><br>Acétate d'éthyle                                                                                                               | 1-buteno<br><i>1-butene</i><br>1-butène                       | Combustible de calefacción<br><i>Heating oil</i><br>Huile de chauffage  |                                                     |                                                                          |            |
|                                                                                                                                        |                                                                                                                                                                      | Propilacetato<br><i>Propylacetate</i><br>Acétate de propyle   | n-hexano<br><i>n-hexane</i><br>n-hexane                                 |                                                     |                                                                          |            |
|                                                                                                                                        | Metanol<br><i>Methanol</i><br>Méthanol                                                                                                                               | i-propanol<br><i>i-propanol</i><br>i-propanol                 |                                                                         |                                                     |                                                                          |            |
|                                                                                                                                        | Propano<br><i>Propane</i><br>Propane                                                                                                                                 | Vinilclorido<br><i>Vinylchloride</i><br>Vinylchloride         |                                                                         |                                                     |                                                                          |            |
| Tolueno<br><i>Toluene</i><br>Toluène                                                                                                   |                                                                                                                                                                      |                                                               |                                                                         |                                                     |                                                                          |            |
| <b>IIB</b><br>Energía de ignición entre:<br><i>Energy of ignition between:</i><br>Energie d'ignition de:<br>0.06 & 0.18 mJ             | Cianuro de hidrógeno<br><i>Hydrogen cyanide</i><br>Cyanure d'hydrogène                                                                                               | 1.3-butadieno<br><i>1.3-butadiene</i><br>Buta-1.3 diène       | Dimetileter<br><i>Dimethyl ether</i><br>Diméthyl éther                  | Diétiler<br><i>Diethyleter</i><br>Diéthyl éther     |                                                                          |            |
|                                                                                                                                        |                                                                                                                                                                      | 1.4-dioxano<br><i>1.4-dioxane</i><br>1.4-dioxane              | Etilglicol<br><i>Ethyl glycol</i><br>Ethyl glycol                       |                                                     |                                                                          |            |
|                                                                                                                                        | Gas de carbón<br><i>Coal gas</i><br>(lighting gas)<br>Gaz de houille                                                                                                 | Etileno<br><i>Ethylene</i><br>Éthylène                        | Sulfuro de hidrógeno<br><i>Hydrogen sulphide</i><br>Sulfure d'hydrogène |                                                     |                                                                          |            |
|                                                                                                                                        |                                                                                                                                                                      | Óxido de etileno<br><i>Ethylene oxide</i><br>Oxyde d'éthylène |                                                                         |                                                     |                                                                          |            |
| <b>IIC</b><br>Energía de ignición inferior a:<br><i>Energy of ignition less than:</i><br>Energie d'ignition inferieur á:<br>0.06 mJ    | Hidrógeno<br><i>Hydrogen</i><br>Hydrogène                                                                                                                            | Acetileno<br><i>Acetylene</i><br>Acétylène                    |                                                                         |                                                     | Disulfuro de carbono<br><i>Carbon disulphide</i><br>Disulfure de carbone |            |
|                                                                                                                                        | Gas de agua<br><i>Water gas</i><br>Gaz d'eau<br>(CO+H2)                                                                                                              |                                                               |                                                                         |                                                     | Nitrato de etilo<br><i>Ethyl nitrate</i><br>Nitrate d'éthyle             |            |

Las herramientas fabricadas en aleación Cobre-Berilio se pueden utilizar en todos los grupos (I, IIA, IIB y IIC) de manera segura, respetando siempre la temperatura máxima de superficie, excepto para el acetileno, porque el cobre reacciona con él creando gases de acetilina altamente explosivos.

*Tools made of Cu-Be alloy can be used in all groups (I, IIA, IIB, IIC) in a safe way, always respecting the maximum surface temperature allowed, with the only exception of acetylene, with which copper might react and create highly explosive acetylide gases.*

Le cuivre Béryllium peut être utilisé dans tous les cas d'une manière sûre, à condition que la température superficielle de l'outil ne dépasse pas le niveau de température pour chaque gaz. Ne pas utiliser en présence d'Acétylène, car le contact peut créer des étincelles explosives.

Las herramientas fabricadas en aleación Aluminio-Bronce se pueden utilizar en todos los grupos excepto en IIC (hidrogeno, gas de agua, acetileno, bisulfuro de carbono y nitrato de etilo), respetando siempre la temperatura máxima de superficie.

*Tools made of Al-Bronze alloy can be used in a safe way, always respecting the maximum surface temperature allowed, except for the IIC group (Hydrogen, gas of water, acetylene, bisulphide of carbon, Ethyl nitrate).*

L'aluminium-Bronze est sûr pour tous ces produits sauf pour le groupe IIC (gaz d'eau, Hydrogène, Acétylène, Bisulfure de carbone et Nitrato d'éthyle, encore que de tous ces gaz seul l'hydrogène est común), à condition que la température superficielle de l'outil ne dépasse pas le niveau de température pour chaque gaz.

## HERRAMIENTAS DE COBRE O LATÓN COPPER OR BRASS TOOLS OUTILS EN CUIVRE OU EN LAITON

**Las herramientas de cobre o latón son seguras en ambientes explosivos.**

EGA Master tiene disponible una gama completa de martillos y mazas de cobre y latón a disposición de los clientes.

Es conveniente saber que las herramientas de cobre o latón no pueden ser nunca considerados como sustitutos de las herramientas de aluminio-bronce o cobre-berilio, debido a que su dureza es muy inferior a la necesaria para la mayoría de aplicaciones. Existe la tentación de escoger herramientas en cobre o latón debido a su menor coste respecto a las aleaciones de aluminio-bronce o cobre-berilio. Esta opción no solo es peligrosa de por sí, sino que hará que a corto plazo tengamos que reemplazarlas por nuevas unidades debido al desgaste sufrido por sus bajas durezas.

Por tanto, las herramientas de cobre o latón deberían ser empleadas únicamente en aquellas aplicaciones que se deban llevar a cabo en zonas de riesgo de explosión, si la misma aplicación requiriese emplear herramientas de cobre o latón en un ambiente sin riesgo de explosión.

Si usted emplearía una herramienta de acero en una zona sin riesgo de explosión, entonces debe escoger por su seguridad y rentabilidad herramientas fabricadas en aluminio-bronce o cobre-berilio para realizar la misma labor en una zona de riesgo, nunca una herramienta de cobre o latón.

*EGA Master has available a complete range of copper and brass hammers and mallets made in both materials.*

*It is convenient to know that copper or brass tools can never be considered as alternatives to aluminum-bronze or copper-beryllium alloy tools, because their hardness is too low for most applications. There is the temptation to choose copper or brass tools due to their lower cost compared to aluminum-bronze or copper-beryllium ones. This choice is not only risky in itself, but in the short/mid term it will be necessary to replace them for new ones because they wear out fast.*

*For this reason, copper or brass tools should only be used in those jobs that have to be made in risky environments, if the same job would be made with copper or brass tools in a non-risky environment. In case you would use a steel tool in a non-risky environment, than you should choose for your safety and profitability tools made in aluminum-bronze or copper-beryllium to make the same job in a risky environment, never a copper or brass tool.*

**Copper or brass tools are safe in explosive environments.**

EGA Master a toute une gamme complète de marteaux et de masses en cuivre et en laiton au service des clients.

Il est important de savoir que les outils en cuivre ou en laiton ne peuvent jamais être considérés comme substituts des outils en aluminium-bronce ou en cuivre-béryllium, ceci du à une dureté bien inférieure à celle nécessaire pour la plus part des applications. La tentation de substituer l'alu-Br et le Cu-Bé par le cuivre ou le laiton existe, dû au coût plus bas. Cette option, non seulement est dangereuse, mais aussi peu rentable, car l'outillage en cuivre ou en laiton sera à remplacer à très court terme, car beaucoup moins résistant.

Mais les outils en cuivre ou en laiton devraient être uniquement utilisés pour des applications en zones de risques d'explosions, si le même usage était requis en atmosphère sans risque d'explosion.

Pour un emploi d'outils en acier en atmosphère sans risque d'explosion, alors pour votre sécurité et une meilleure rentabilité, vous devez prendre des outils fabriqués en Aluminium - Bronze ou en Cuivre - Béryllium pour des applications en zone de risque, jamais un outil en cuivre ou en laiton.

**Les outils en cuivre ou en laiton sont sûrs pour une utilisation dans des environnements explosifs.**

## ALEACIÓN ACETILEX, TRABAJO SEGURO INCLUSO EN AMBIENTES DE ACETILENO ACETILEX ALLOY, SAFE WORK EVEN IN ACETYLENE ENVIRONMENTS ALLIAGE ACETILEX, TRAVAIL SÛR MÊME EN PRÉSENCE D'ACÉTHYLÈNE

Los ambientes de acetileno hacen que no se puedan emplear elementos con composiciones de cobre superiores al 65 %. Ambas aleaciones aluminio-bronce y cobre-berilio tienen porcentajes de cobre superiores al 65 %. La razón no estriba en que una chispa de cobre berilio tenga la suficiente energía como para provocar la ignición del acetileno, sino que el cobre puede reaccionar con el acetileno creando acetiluros altamente explosivos de por sí. Por este motivo, se desaconseja el uso de cualquiera de las aleaciones de cobre berilio o aluminio bronce en ambientes de acetileno.

En EGA Master, siempre buscando soluciones innovadoras que aporten mayor seguridad, hemos desarrollado la aleación ACETILEX, 100 % segura en ambientes de acetileno. Una vez más, pioneros en seguridad.

*Items with copper composition higher than 65% should not be used in acetylene environments. Both aluminum bronze and copper-beryllium alloys do have copper compositions higher than 65%. The reason is not that copper beryllium can create a spark with enough energy to create the ignition of acetylene, but that copper reacts with acetylene creating highly explosive acetylides. For this reason, copper-beryllium or aluminum-bronze alloys should not be used in acetylene environments.*

*EGA Master, always committed to find new innovative solutions that will increase safety, has developed the ACETILEX alloy, 100% safe to be used in acetylene environments. Once again, pioneers in safety.*

Les atmosphères en présence d'acétylène font qu'on ne peut utiliser de compositions en cuivre supérieures à 65%. Les deux alliages aluminium - bronze et cuivre - béryllium ont un pourcentage de cuivre supérieur à 65%. La raison ne repose pas sur le fait que l'étincelle du cuivre-béryllium ait l'énergie suffisante pour provoquer l'ignition de l'acétylène, mais que le cuivre peut avoir une réaction avec l'acétylène, ce qui peut provoquer des particules acétylure hautement explosives. Pour cette raison, il est déconseillé l'utilisation d'alliages de cuivre béryllium ou d'aluminium bronze en présence d'acétylène.

En permanence à la recherche de solutions novatrices ayant la meilleure sécurité, EGA Master a développé l'alliage ACETILEX, 100% sûre en présence d'acétylène. Une fois de plus, pionniers en sécurité.

### PRINCIPALES CAMPOS DE APLICACIÓN MAIN APPLICATION FIELDS PRINCIPAUX CHAMPS D'APPLICATION

|                                                                                                         |                                                                                                                      |
|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Petroquímicas<br><i>Petrochemicals</i><br>Petrochimie                                                   | Fábrica cervecera<br><i>Breweries</i><br>Brasseries                                                                  |
| Refinerías<br><i>Refineries</i><br>Raffineries                                                          | Industrias de procesamiento de alcohol<br><i>Alcohol processing industries</i><br>Fabrication d'alcool               |
| Industria del Petróleo<br><i>Oil Companies</i><br>Sociétés pétrolières                                  | Destilerías<br><i>Distilleries</i><br>Distilleries                                                                   |
| Conductos de tubo de Gas y Petróleo<br><i>Gas &amp; oil pipe lines</i><br>Conduits de gaz et de pétrole | Bomberos<br><i>Fire-fighters</i><br>Pompiers                                                                         |
| Estaciones de servicio y energía<br><i>Power Stations</i><br>Stations de service et energie             | Minas<br><i>Mines</i><br>Mines                                                                                       |
| Fabricación de pintura<br><i>Paint Manufacturing</i><br>Fabrication de peinture                         | Defensa<br><i>Defence</i><br>Defense                                                                                 |
| Fabricación de plástico<br><i>Plastic manufacturing</i><br>Fabrication de plastique                     | Fuerzas aéreas<br><i>Air Forces</i><br>Forces aériennes                                                              |
| Industria Farmacéutica<br><i>Pharmaceutical Industry</i><br>Industrie pharmaceutique                    | Marina<br><i>Navy</i><br>Marine                                                                                      |
| Industria Pirotécnica<br><i>Fireworks Industry</i><br>Industrie pyrotechnique                           | Fabricación de munición y armas<br><i>Weapon &amp; ammunition fabrication</i><br>Fabrication de poudres et explosifs |
| Industria química<br><i>Chemical Industry</i><br>Industrie chimique                                     | Industria aeroespacial<br><i>Aerospace industry</i><br>Industrie aérospaciale                                        |
| Industria papelera<br><i>Paper making Industries</i><br>Industrie du papier                             | Industria del automóvil<br><i>Automobile Industry</i><br>Industrie automobile                                        |
| Silos de harina y molinos<br><i>Flour silos and mills</i><br>Silos et moulins                           | Etc.                                                                                                                 |

### INSTRUCCIONES DE USO Y GARANTÍA INSTRUCTIONS FOR USE & WARRANTY INSTRUCTIONS D'UTILISATION ET GARANTIE

- Las herramientas antichispa no pueden alcanzar la dureza de las herramientas convencionales. Por esta razón en su uso se debe tener un especial cuidado, sin sobreesfuerzos ni alta temperatura.  
*Non-Sparking Tools cannot reach the hardness of conventional tools. For this reason the use of Non-Sparking Tools has to be carried out with special care, avoiding overstraining, heating, etc.*  
L'outillage anti-déflagrant ne peut avoir la même dureté que l'outillage traditionnel. Pour cela, il requiert une attention spéciale, en évitant la surcharge, la chaleur...
- Si en toda llave/destornillador es imperativo emplear la medida correspondiente a la tuerca o tornillo, en el caso de las antichispa lo es aún con más razón, ya que si se usara indebidamente una de distinto tamaño al preceptivo, el efecto cizalla que se causaría, propiciaría su deterioro.  
*To avoid damage being caused to both tool and fastener, it is necessary to always ensure that the correctly sized spanner/wrench/screwdriver is selected. Due to the reduced strength and wear resistance of Non-Sparking Alloys the correctly sized tool becomes essential to avoid premature wear and early deterioration of the tool.*  
S'il est impératif dans tous tournevis/clés d'employer la dimension correspondante à l'écrou ou à la vis, il est encore plus vital dans le cas de l'anti-déflagrant, puisque s'il s'utilise de façon incorrecte la dimension obligatoire, l'effet cisaille causé favorisera sa détérioration.
- Durante trabajos en zonas clasificadas con riesgo de explosión, además de requerimientos relativos al uso de herramienta antichispa, deben tenerse en cuenta necesidades respecto de otros elementos tales como que el uso de maquinaria y artículos eléctricos/electrónicos con certificación ATEX, elementos de protección individual...  
*While carrying out works in areas classified with risk of explosion, in addition to the safety requirements related to the use of non-sparking tools, it also must be taken into account requirements related to other elements used, such as ATEX certification for machinery, electrical/electronic devices,... and also individual protection elements.*  
Lors de travaux dans des zones classées à risque d'explosion, en plus des exigences liées à l'utilisation d'outils antidéflagrants, certains besoins doivent être pris en compte concernant d'autres éléments tels que l'utilisation de machines et d'éléments électriques/électroniques avec certification ATEX, des éléments de protection individuelle...



## CERTIFICADO DE CONFORMIDAD

Certificamos que las herramientas antichispa fabricadas por EGA Master en **Aluminio-Bronce** cumplen con la Directiva Europea ATEX 1999/92/EC en las zonas de trabajo 1 y 2 (Gas, Vapor) y/o Zonas 21 y 22 (Polvo). Además, son seguras en grupos de explosión I, IIA, IIB, IIC (excepto acetileno por la formación química de acetileno explosiva) de acuerdo a la ISO/IEC 80079-20-1:2017.

### Composición química

**Al:** 10% - 12%

**Ni:** 4% - 6%

**Fe+Mn:** 5,8% - 7%

**Resto:** Cu+Al+Ni+Fe+Mn  $\geq$  99,0 %

### Dureza

241-311 Brinell

### Resistencia a la tracción

800 N/mm<sup>2</sup>

Certificamos que las herramientas **Cobre-Berilio** fabricadas por EGA Master cumplen con la Directiva Europea ATEX 1999/92/EC en las zonas de trabajo 1 y 2 (Gas, Vapor) y/o Zonas 21 y 22 (Polvo). Además, son seguras en grupos de explosión I, IIA, IIB, IIC (excepto acetileno por la formación química de acetileno explosiva) de acuerdo a la ISO/IEC 80079-20-1:2017.

### Composición química

**Be:** 1,8% - 2,3%

**Ni+Co:** > 0,2%

**Co+Ni+Fe:** < 1,2%

**Resto:** Cu+Be+Co+Ni+Fe  $\geq$  99,0 %

### Dureza

311- 408 Brinell

### Resistencia a la tracción

1250 N/mm<sup>2</sup>

## CERTIFICATE OF COMPLIANCE

We hereby certify that, EGA Master **Aluminum-Bronze** Tools fulfill the demand in the European ATEX Directive 1999/92/EC for work in Zones 1&2 (Gas, Mists or Vapors) and/or 21&22 (Dusts). EGA Master Aluminum-Bronze Tools are totally safe against explosion risk working in environments of all gases classified as Risk Groups I, IIA, IIB and IIC (except acetylene) according to ISO/IEC 80079-20-1:2017.

### Chemical composition percentage

**Al:** 10% - 12%

**Ni:** 4% - 6%

**Fe+Mn:** 5,8% - 7%

**Cu+Al+Ni+Fe+Mn  $\geq$  99,0 % Balance**

### Hardness

241-311 Brinell

### Tensile Strength-Break

800 N/mm<sup>2</sup>

We hereby certify that, EGA Master **Copper-Beryllium** Tools fulfill the demand in the European ATEX Directive 1999/92/EC for work in Zones 1&2 (Gas, Mists or Vapors) and/or 21&22 (Dusts). EGA Master Aluminum-Bronze Tools are totally safe against explosion risk working in environments of all gases classified as Risk Groups I, IIA, IIB and IIC (except acetylene) according to ISO/IEC 80079-20-1:2017.

### Chemical composition percentage

**Be:** 1,8% - 2,3%

**Ni+Co:** > 0,2%

**Co+Ni+Fe:** < 1,2%

**Cu+Be+Co+Ni+Fe  $\geq$  99,0 % Balance**

### Hardness

311- 408 Brinell

### Tensile Strength-Break

1250 N/mm<sup>2</sup>

EGA MASTER S.L.  
Aner Garmendia  
CEO at EGA Master



**CERTIFICADO DE SEGURIDAD ANTIEXPLOSIÓN**  
**ANTIEXPLOSION SAFETY CERTIFICATE**  
**CERTIFICAT DE SÉCURITÉ ANTI-EXPLOSION**

EGA Master certifica la seguridad de sus materiales por el prestigioso Instituto Federal Alemán para la Investigación y Examen de Materiales BAM, miembro notificado de la Unión Europea para la certificación según la Directiva 94/9/EG (ATEX).

*EGA Master non-sparking tools are certified by the prestigious German Federal Institute for Materials Research and Testing (BAM), which is a European Union approved laboratory to certify according to 94/9/EG Directive (Atex).*

La certificación des matériaux d'EGA Master est réalisée par le prestigieux Institut Fédéral Allemand d'investigation et d'examen des matériaux BAM, membre notifié par l'Union Européenne pour la certification selon la directive 94/9/EG (ATEX).



**Certificate**  
N°: **BAM/ZBF/008/10**  
3<sup>rd</sup> Revised version

Hereby it is confirmed by the BAM Certification Body, that the

**Material aluminium-bronze**

of the manufacturer

**EGA Master S.L.**  
**Zorrolleta 11, Jundiz Industrial Estate**  
**01015 Vitoria**  
**SPAIN**

meets the requirements of **BAM Standard operating procedure „StAA-NEG-005“: „StAA zur Schlagfunkenprüfung von Werkstoffpaarungen“ dated 2019-07-02** and thus the non-sparking tools made of this material are appropriate for use in potentially explosive atmospheres of zone 1 and/or 21 according to Directive 1999/92/EC of all explosion groups (I, IIA, IIB & IIC) according to ISO/IEC 80079-20-1:2017, if the terms and conditions set out in the annex to this certificate are met.

The certification is based on certification contract N° **BAM-ZBF-0004-2020-EGA dated 2020-08-26** and comprises according to standard ISO/IEC 17065:2012 a design-type test with the manufacturer's declaration of conformity (BAM Certification system I).  
The products certified by BAM may be labelled with the certification mark "BAM design-type tested" / "BAM Baumustergeprüft".

**The certificate is valid until 1 August 2025.**

BAM test report **20017926; BZ5-G5/024/20 dated 19 February 2021** as well as procedure no. **BZ5-G5/024/20** form the basis of this certificate.

Bundesanstalt für Materialforschung und -prüfung (BAM)  
Unter den Eichen 87, 12205 Berlin, **2021-02-23**

  
**Dr. J. Sunderkötter**  
 BAM Certification Officer

  
**Dr. R. Grätz**  
 BAM Assessor

Distribution list: 1st Certificate holder      2nd BAM Certification Body

This certificate may only be published in full wording and without any additions. A revocable written consent shall be obtained from BAM beforehand for any amended reproduction or the publication of any excerpts. The German version is legally binding, except an English version is issued exclusively. Place of jurisdiction is Berlin.

Sicherheit in Technik und Chemie

Tras revisión de la normativa en 2017, realizada por la institución alemana BG RCI (en la que el laboratorio BAM también ha participado) se prohíbe el uso de herramientas en las áreas de las zonas 0 y 20. En línea con dicho cambio, y a partir de dicha fecha, el organismo de certificación BAM no otorga certificaciones para dichas zonas 0/20.

*After a review of the regulations in 2017, carried out by the German institution BG RCI (in which the BAM laboratory has also participated), the use of tools in the areas of zones 0 and 20 is prohibited. In line with said change, and from After that date, the BAM certification body does not grant certifications for said zones 0/20.*

Après une révision de la réglementation en 2017, réalisée par l'institution allemande BG RCI (à laquelle le laboratoire BAM a également participé), l'utilisation d'outils dans les zones 0 et 20 est interdite. A partir de cette date, l'organisme de certification BAM n'accorde plus de certifications pour lesdites zones 0/20.



## CERTIFICADO DE SEGURIDAD ANTIEXPLOSIÓN ANTIEXPLOSION SAFETY CERTIFICATE CERTIFICAT DE SÉCURITÉ ANTI-EXPLOSION

**EGA Master** certifica la seguridad de sus materiales por el prestigioso Instituto Federal Alemán para la Investigación y Examen de Materiales BAM, miembro notificado de la Unión Europea para la certificación según la Directiva 94/9/EG (ATEX).

*EGA Master non-sparking tools are certified by the prestigious German Federal Institute for Materials Research and Testing (BAM), which is a European Union approved laboratory to certify according to 94/9/EG Directive (Atex).*

La certificación des matériaux d'**EGA Master** est réalisée par le prestigieux Institut Fédéral Allemand d'investigation et d'examen des matériaux BAM, membre notifié par l'Union Européenne pour la certification selon la directive 94/9/EG (ATEX).

**Certificate**  
 N°: **BAM/ZBF/007/10**  
 3<sup>rd</sup> Revised version

Hereby it is confirmed by the BAM Certification Body, that the

**Material beryllium-copper**

of the manufacturer

**EGA Master S.L.**  
 Zorroleta 11, Jundiz Industrial Estate  
 01015 Vitoria  
 SPAIN

meets the requirements of **BAM Standard operating procedure „StAA-NEG-005“: „StAA zur Schlagfunkenprüfung von Werkstoffpaarungen“ dated 2019-07-02** and thus the non-sparking tools made of this material are appropriate for use in potentially explosive atmospheres of zone 1 and/or 21 according to Directive 1999/92/EC of all explosion groups (I, IIA, IIB & IIC) according to ISO/IEC 80079-20-1:2017, if the terms and conditions set out in the annex to this certificate are met.

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**The certificate is valid until 1 August 2025.**

BAM test report **20017926; BZ5-G5/024/20 dated 19 February 2021** as well as procedure no. **BZ5-G5/024/20** form the basis of this certificate.

Bundesanstalt für Materialforschung und -prüfung (BAM)  
 Unter den Eichen 87,12205 Berlin, **2021-02-23**

*J. Sunderkötter*  
 Dr. J. Sunderkötter  
 BAM Certification Officer

*R. Grätz*  
 Dr. R. Grätz  
 BAM Assessor

Distribution list: 1st Certificate holder 2nd BAM Certification Body

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■ **ALICATES / PLIERS / PINCES / ZANGEN / PINZE / ALICATES / ПЛОСКОГУБЦЫ**


■ **UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALE / UNIVERSAIS / КОМБИНИРОВАННЫЕ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-----------------------------------------------------------------------------------|
| 70100 |       | 70530 |         | 160    | 250                                                                               |
| 70101 | Cu-Be | 70531 | Al-Bron | 180    | 320                                                                               |
| 70102 |       | 70532 |         | 200    | 370                                                                               |

**BMAT** | Modelo registrado / Registered model / Modèle enregistré




■ **BOCA PLANA / FLAT NOSE / BECS PLATS / FLACHZANGEN / BECCHI PIATTI / PONTAS CHATAS / УТКОНОСЫ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-----------------------------------------------------------------------------------|
| 70103 | Cu-Be | 70533 | Al-Bron | 160    | 170                                                                               |

**BMAT** | Modelo registrado / Registered model / Modèle enregistré




■ **BOCA REDONDA / ROUND NOSE / BECS RONDS / RUNDZANGEN / BECCHI TONDI / PONTAS REDONDAS / КРУГЛОГУБЦЫ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-----------------------------------------------------------------------------------|
| 70104 | Cu-Be | 70534 | Al-Bron | 160    | 160                                                                               |

**BMAT** | Modelo registrado / Registered model / Modèle enregistré




■ **TELEFONISTA / LONG NOSE / TELEPHONE / TELEFONZANGEN / TELEFONISTI / TELEFONISTA / СУДЛИННЕННЫМИ НОСАМИ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|------------------------------------------------------------------------------------|
| 70105 |       | 70535 |         | 160    | 250                                                                                |
| 76130 | Cu-Be | 76131 | Al-Bron | 180    | 270                                                                                |
| 70106 |       | 70536 |         | 200    | 370                                                                                |

**BMAT** | Modelo registrado / Registered model / Modèle enregistré




■ **TELEFONISTA BOCA CURVA / BENT NOSE PLIERS / TELEPHONE BECS COUDES / TELEFONZANGEN GEBOGEN / TELEFONISTI BECCHI PIEGATI / TELEFONISTA PONTAS CURVAS / СИЗОГНУТЫМИ НОСАМИ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-------------------------------------------------------------------------------------|
| 73148 |       | 73149 |         | 160    | 250                                                                                 |
| 73146 | Cu-Be | 73151 | Al-Bron | 180    | 270                                                                                 |
| 73647 |       | 73650 |         | 200    | 370                                                                                 |

**BMAT** | Modelo registrado / Registered model / Modèle enregistré




■ **CORTE DIAGONAL / DIAGONAL CUTTING PLIERS / COUPANTES DIAGONALES / SEITENSCHNEIDER / TAGLIO LATERALE / CORTE DIAGONAL / УДЛИНЕННЫЕ ТОНКИЕ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-------------------------------------------------------------------------------------|
| 70107 |       | 70537 |         | 160    | 250                                                                                 |
| 76474 | Cu-Be | 76475 | Al-Bron | 200    | 370                                                                                 |

**BMAT** | Modelo registrado / Registered model / Modèle enregistré



■ **CORTE DIAGONAL REFORZADO / HEAVY DUTY CUTTING NIPPERS / COUPANTES RENFORCÉS / VERSTÄRKTER SEITENSCHNEIDER / TAGLIO LATERALE RINFORZATO / CORTE DIAGONAL REFORÇADO / УСИЛЕННЫЕ БОКОРЕЗЫ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-------------------------------------------------------------------------------------|
| 72094 |       | 72095 |         | 160    | 260                                                                                 |
| 70108 | Cu-Be | 70538 | Al-Bron | 180    | 320                                                                                 |

**BMAT** | Modelo registrado / Registered model / Modèle enregistré



**ALICATE GASISTA / GAS PIPE PLIERS / PINCE GAZIER / ROHRZANGE / PINZA PER GASISTA / ALICATE PARA TUBO DE GAZ / КЛЕЩИ ГАЗОВЫЕ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | g   |
|-------|-------|-------|---------|--------|-----|
| 70109 | Cu-Be | 70539 | Al-Bron | 210    | 370 |

**BMAT** | Modelo registrado / Registered model / Modèle enregistré

**ALICATE TIPO FORD / SLIP JOINT PLIER / PINCE MOTORISTE / MECHANIKERZANGE / PINZE PER GASISTI / ALICATE MOTORISTA / СКОЛЬЗЯЩИЕ КЛЕЩИ**

| COD.  | MAT.  | COD.  | MAT.    | L (inch) | g   |
|-------|-------|-------|---------|----------|-----|
| 70114 | Cu-Be | 70544 | Al-Bron | 8        | 250 |

**BMAT** | Modelo registrado / Registered model / Modèle enregistré

**PELACABLES / WIRESTRIPPER / PINCES À DÉNUDER / ABISOLIERZANGEN / PINZE SPELAFILI / DECAPADORES / КЛЕЩИ ДЛЯ ЗАЧИСТКИ КОНТАКТОВ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | g   |
|-------|-------|-------|---------|--------|-----|
| 73903 | Cu-Be | 73904 | Al-Bron | 170    | 220 |

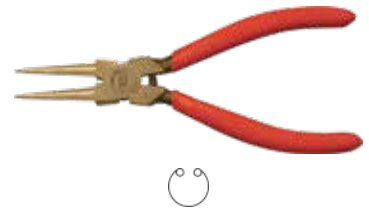
**BMAT** | Modelo registrado / Registered model / Modèle enregistré

**ALICATES CIRCLIPS / CIRCLIPS PLIERS / PINCES POUR CIRCLIPS / ZANGEN FÜR SICHERUNGSRINGE / PINZE PER ANELLI / ALICATES FREIOS / СЪЕМНИК КОЛЕЦ**
**INTERIOR RECTO / INTERNAL STRAIGHT / INTERIEUR DROIT / INNENSICHERUNGSRINGE, GERADE / DIRITTO PER INTERNI / INTERIOR DIREITO / ВНУТРЕННИЕ ПРЯМЫЕ**

| COD.  | MAT.  | COD.  | MAT.    | O.D. mm | L (mm) | g   |     |     |
|-------|-------|-------|---------|---------|--------|-----|-----|-----|
| 36434 | Cu-Be | 36435 | Al-Bron | 3-10    | 140    | 110 |     |     |
| 76741 |       | 76740 |         | 8-25    |        |     |     |     |
| 72511 |       | 72510 |         | 10-25   |        |     |     |     |
| 72513 |       | 72512 |         | 19-60   |        |     | 200 | 250 |
| 72515 |       | 72514 |         | 40-100  |        |     | 250 | 425 |


**INTERIOR CURVO / INTERNAL BENT / INTERIEUR COUDÉ / BACKEN UM 90 GEBOGEN / PIEGATTO PER INTERNI / INTERIOR CURVO / ВНУТРЕННИЕ ИЗОГНУТЫЕ**

| COD.  | MAT.  | COD.  | MAT.    | O.D. mm | L (mm) | g   |
|-------|-------|-------|---------|---------|--------|-----|
| 79969 | Cu-Be | 79968 | Al-Bron | 85-200  | 330    | 600 |


**EXTERIOR RECTO / EXTERNAL STRAIGHT / EXTERIEUR DROIT / AUSSENSICHERUNGSRINGE, GERADE / DIRITTA PER ESTERNI / EXTERIOR DIREITO / НАРУЖНЫЕ ПРЯМЫЕ**

| COD.  | MAT.  | COD.  | MAT.    | O.D. mm | L (mm) | g   |     |     |
|-------|-------|-------|---------|---------|--------|-----|-----|-----|
| 76746 | Cu-Be | 76745 | Al-Bron | 3-10    | 140    | 120 |     |     |
| 36436 |       | 36437 |         | 8-25    |        |     |     |     |
| 72517 |       | 72516 |         | 10-25   |        |     |     |     |
| 72519 |       | 72518 |         | 19-60   |        |     | 200 | 265 |
| 72521 |       | 72520 |         | 40-100  |        |     | 250 | 465 |



**EXTERIOR CURVO / EXTERNAL BENT / EXTERIEUR COUDÉ / BACKEN UM 90 GEBOGEN / PIEGATO PER ESTERNI / EXTERIOR CURVO / НАРУЖНЫЕ ИЗОГНУТЫЕ**

| COD.  | MAT.  | COD.  | MAT.    | O.D. mm | L (mm) | g   |
|-------|-------|-------|---------|---------|--------|-----|
| 79967 | Cu-Be | 79966 | Al-Bron | 85-200  | 330    | 600 |




■ ALICATES MINIS / MINI PLIERS / PINCES MINI / MINI ZANGEN / PINZE MINI / ALICATES MINI / ПЛОСКОГУБЦЫ МИНИ

■ UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALI / UNIVERSAIS / КОМБИНИРОВАННЫЕ

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-----------------------------------------------------------------------------------|
| 79100 | Cu-Be | 79101 | Al-Bron | 125    | 100                                                                               |




■ BOCA PLANA / FLAT NOSE / BECS PLATS / FLACHZANGEN / BECCHI PIATTI / PONTAS CHATAS / УТКОНОСЫ

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-----------------------------------------------------------------------------------|
| 79128 | Cu-Be | 79129 | Al-Bron | 125    | 100                                                                               |




■ BOCA REDONDA / ROUND NOSE / BECS RONDS / RUNDZANGEN / BECCHI TONDI / PONTAS REDONDAS / КРУГЛОГУБЦЫ

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-----------------------------------------------------------------------------------|
| 79145 | Cu-Be | 79146 | Al-Bron | 130    | 100                                                                               |




■ TELEFONISTA / LONG NOSE / TÉLÉPHONE / TELEFONZANGEN / TELEFONISTI / TELEFONISTA / СУДЛИННЕННЫМИ НОСАМИ

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-------------------------------------------------------------------------------------|
| 79220 | Cu-Be | 79221 | Al-Bron | 125    | 100                                                                                 |




■ TELEFONISTA BOCA CURVA / BENT NOSE PLIERS / TÉLÉPHONE BECS COUDÉS / TELEFONZANGEN GEBOGEN / TELEFONISTI BECCHI PIEGATI / TELEFONISTA PONTAS CURVAS / СИЗОГНУТЫМИ НОСАМИ

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-------------------------------------------------------------------------------------|
| 79222 | Cu-Be | 79223 | Al-Bron | 125    | 100                                                                                 |




■ BOCA AGUJA / LONG NEEDLE NOSE / LONG BECS DEMI-RONDS / FLACHZANGE MIT LANGEM MAUL / BECCHI TONDI AFFUSOLATI / PONTAS AGULHA / УДЛИНЕННЫЕ ТОНКИЕ

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-------------------------------------------------------------------------------------|
| 76128 | Cu-Be | 76129 | Al-Bron | 150    | 100                                                                                 |




■ CORTE DIAGONAL / DIAGONAL CUTTING PLIERS / COUPANTES DIAGONALES / SEITENSCHNEIDER / TAGLIO LATERALE / CORTE DIAGONAL / УДЛИНЕННЫЕ ТОНКИЕ

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-------------------------------------------------------------------------------------|
| 79228 | Cu-Be | 79229 | Al-Bron | 115    | 100                                                                                 |




■ CORTE DIAGONAL TRIANGULAR / DIAGONAL CUTTING TRIANGULAR / COUPANTES DIAGONALE TRIANGULAIRE / SEITENSCHNEIDER / TAGLIO LATERALE TRIANGOLARE / БОКОРЕЗЫ ТРЕУГОЛЬНЫЕ


| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-------------------------------------------------------------------------------------|
| 79230 | Cu-Be | 79231 | Al-Bron | 115    | 100                                                                                 |



**■ CORTE FRONTAL / END CUTTING NIPPER / COUPANTES DEVANT / VORSCHNEIDER / TAGLIO FRONTALE / CORTE FRONTAL / КЛЕЩИ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-----------------------------------------------------------------------------------|
| 79232 | Cu-Be | 79233 | Al-Bron | 110    | 100                                                                               |


**■ TENAZAS / PINCERS / TENAILLES / ZANGE / TENAGLIE / ALICATES / КЛЕЩИ**
**■ PICO DE LORO / GROOVE JOINT / MULTIPRISE À CRÉMAILLÈRE / WASSERPUMPENZANGE / PINZE REGOLABILI / BICO DE PAPAGAIO / С ЖЕЛОБКОВЫМ МЕХАНИЗМОМ**

| COD.  | MAT.  | COD.  | MAT.    | L (inch) |  |
|-------|-------|-------|---------|----------|-----------------------------------------------------------------------------------|
| 70110 | Cu-Be | 70540 | Al-Bron | 10       | 340                                                                               |
| 70111 |       | 70541 |         | 12       | 700                                                                               |



**■ DE CANAL / BOX JOINT / MULTIPRISE ENTREPASSÉE / WASSERPUMPENZANGE / PINZE REGOLABILI / BICO DE PAPAGAIO / ШАРНИРНЫЕ**

| COD.  | MAT.  | COD.  | MAT.    | L (inch) |  |
|-------|-------|-------|---------|----------|-----------------------------------------------------------------------------------|
| 73897 | Cu-Be | 73898 | Al-Bron | 10       | 380                                                                               |




| COD.  | MAT.  | COD.  | MAT.    | L (inch) |  |
|-------|-------|-------|---------|----------|-----------------------------------------------------------------------------------|
| 72300 | Cu-Be | 72302 | Al-Bron | 10       | 340                                                                               |



**ВМАТ**
**■ TENAZA GRIP BOCA CURVA / CURVED JAW GRIP PLIER / PINCE ÉTAU BEC COURBÉ / GRIPZANGE / PINZA GRIP A BECCHI PIEGATI / ALICATE DE PRESSÃO DE BOCA CURVA / СТРУБЦИНА**

| COD.  | MAT.  | COD.  | MAT.    | L (inch) |  |
|-------|-------|-------|---------|----------|-------------------------------------------------------------------------------------|
| 79463 | Cu-Be | 79464 | Al-Bron | 9        | 480                                                                                 |




**■ TENAZA DE CARPINTERO / CARPENTER PINCER / PINCE DE MENUISIER / KANTENZANGE / TENAGLIE PER CARPENTIERI / TURQUES DE CARPINTERO / КЛЕЩИ ДЛЯ ПЛИТКИ**

| COD.  | MAT.  | COD.  | MAT.    | L (inch) |  |
|-------|-------|-------|---------|----------|-------------------------------------------------------------------------------------|
| 70112 | Cu-Be | 70542 | Al-Bron | 7        | 310                                                                                 |
| 70113 |       | 70543 |         | 8        | 380                                                                                 |


**■ ALICATE PARA TERMINALES / CRIMPING PLIER / PINCE À SERTIR / CRIMPZANGE / PINZE PER TERMINALI / ALICATE PARA TERMINAIS / ОБЖИМНЫЕ КЛЕЩИ**

| COD.  | MAT.  | COD.  | MAT.    | L (inch) |  |
|-------|-------|-------|---------|----------|-------------------------------------------------------------------------------------|
| 73900 | Cu-Be | 73901 | Al-Bron | 8        | 220                                                                                 |


**■ LLAVES AJUSTABLES / ADJUSTABLE WRENCHES / CLÉS À MOLETTE / ROLLGABELSCHLÜSSEL / CHIAVI REGOLABILI A RULLINO / CHAVES AJUSTAVELS / РАЗВОДНЫЕ КЛЮЧИ**

| COD.  | MAT.  | COD.  | MAT.    |  | L (mm) | L (inch) |  |
|-------|-------|-------|---------|-------------------------------------------------------------------------------------|--------|----------|---------------------------------------------------------------------------------------|
| 72685 | Cu-Be | 73992 | Al-Bron | 13                                                                                  | 100    | 4        | 55                                                                                    |
| 71448 |       | 71451 |         | 19                                                                                  | 150    | 6        | 160                                                                                   |
| 70117 |       | 71452 |         | 24                                                                                  | 200    | 8        | 330                                                                                   |
| 70118 |       | 71453 |         | 28                                                                                  | 250    | 10       | 550                                                                                   |
| 70119 |       | 71454 |         | 34                                                                                  | 300    | 12       | 850                                                                                   |
| 70120 |       | 71455 |         | 43                                                                                  | 375    | 15       | 1250                                                                                  |
| 71449 |       | 71456 |         | 52                                                                                  | 450    | 18       | 2200                                                                                  |
| 71450 |       | 71457 |         | 62                                                                                  | 600    | 24       | 3100                                                                                  |
| 75315 |       | 75316 |         | 75                                                                                  | 900    | 36       | 7800                                                                                  |



### COMFORT

| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | L (inch) | g   |
|-------|-------|-------|---------|-------|--------|----------|-----|
| 75099 | Cu-Be | 75098 | Al-Bron | 19    | 150    | 6        | 180 |
| 75112 |       | 75111 |         | 24    | 200    | 8        | 350 |
| 75114 |       | 75113 |         | 28    | 250    | 10       | 570 |



### LLAVE AJUSTABLE LIGERA / LIGHT ADJUSTABLE WRENCH / CLÉ À MOLETTE LÉGÈRE / VERSTELLBARE ROLLGABEL LEICHT / CHIAVE A RULLINO LEGGERA / CHAVE AJUSTÁVEL LIGEIRA / КЛЮЧ РАЗВОДНОЙ ОБЛЕГЧЕННЫЙ

| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | L (inch) | g    |
|-------|-------|-------|---------|-------|--------|----------|------|
| 35746 | Cu-Be | 35747 | Al-Bron | 20    | 150    | 6        | 140  |
| 35748 |       | 35749 |         | 25    | 200    | 8        | 270  |
| 35750 |       | 35751 |         | 30    | 250    | 10       | 460  |
| 35752 |       | 35753 |         | 35    | 300    | 12       | 710  |
| 35754 |       | 35755 |         | 48    | 375    | 15       | 1500 |



### EXTRACTORES / GEAR PULLERS / EXTRACTEURS / ABZIEHERS / ESTRATTORI / EXTRACTORES / СЪЕМНИКИ

#### EXTRACTOR 3 GARRAS ARTICULADAS REVERSIBLES / 3 JAW REVERSIBLE GEAR PULLER / EXTRACTEUR 3 BRAS ARTICULES RÉVERSIBLES / AUSSENABZIEHER 3 KLAUEN / ESTRATTORE A 3 BRACCI REVERSIBILI / EXTRACTOR DE 3 GARRAS ARTICULADO REVERSIVEL / СЪЕМНИК С 3-МЯ ЛАПАМИ РЕВЕРСИВНЫЙ

| COD.  | MAT.  | COD.  | MAT.    | L min.-max. | Kg  |
|-------|-------|-------|---------|-------------|-----|
| 72470 | Cu-Be | 72471 | Al-Bron | 50-100      | 4,5 |
| 72472 |       | 72473 |         | 60-150      | 5,2 |
| 72474 |       | 72475 |         | 70-200      | 7,1 |
| 72476 |       | 72477 |         | 80-350      | 13  |



### PINZAS / TWEEZERS / BRUCELLES / GREIFPINZETTEN / PINZETTE DI PRECISIONES / PINÇAS / ПИНЦЕТЫ

#### BOCA FINA / NEAT TIPS / BECS FINS / FEINE BACKEN / A PUNTA FINE / PONTAS FINAS / ПИНЦЕТ ЗАОСТРЕННЫЙ

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | g  |
|-------|-------|-------|---------|--------|----|
| 70115 | Cu-Be | 70547 | Al-Bron | 150    | 40 |



#### BOCA PLANA / FLAT NOSE / PLATES / FLACH ZANGE / PUNTA PIATTA / PONTAS PLANAS / УТКОНОСЫ

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | g  |
|-------|-------|-------|---------|--------|----|
| 70116 | Cu-Be | 70548 | Al-Bron | 100    | 30 |



■ **LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ**

■ **LLAVES FIJAS / OPEN-END WRENCHES / CLÉS À FOURCHE / GABELSCHLÜSSEL / CHIAVI FISSE / CHAVES DUAS BOCAS / РОЖКОВЫЕ КЛЮЧИ**

■ **MM**





| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | g   |
|-------|-------|-------|---------|-------|--------|-----|
| 75240 |       | 75241 |         | 4-5   | 90     | 30  |
| 75242 |       | 75243 |         | 5-5,5 |        |     |
| 70135 |       | 70549 |         | 6-7   | 95     | 40  |
| 70136 |       | 70550 |         | 6-8   |        |     |
| 76871 |       | 76872 |         | 7-8   | 100    | 50  |
| 70137 |       | 70551 |         | 7-9   |        |     |
| 70138 |       | 70552 |         | 8-9   | 105    | 60  |
| 70139 |       | 70553 |         | 8-10  |        |     |
| 70140 |       | 70554 |         | 9-10  | 110    | 70  |
| 70141 |       | 70555 |         | 9-11  |        |     |
| 70142 |       | 70556 |         | 10-11 | 115    | 85  |
| 70143 |       | 70557 |         | 10-12 |        |     |
| 76873 |       | 76874 |         | 10-13 | 120    | 95  |
| 70144 |       | 70558 |         | 10-14 |        |     |
| 75244 |       | 75245 |         | 11-13 | 125    | 120 |
| 70145 |       | 70559 |         | 11-14 |        |     |
| 70146 |       | 70560 |         | 12-13 | 130    | 135 |
| 70147 |       | 70561 |         | 12-14 |        |     |
| 76875 |       | 76876 |         | 13-14 | 135    | 145 |
| 73648 |       | 73649 |         | 13-15 |        |     |
| 36550 |       | 36551 |         | 13-17 | 145    | 165 |
| 70148 |       | 70562 |         | 14-15 |        |     |
| 76877 |       | 76878 |         | 14-16 | 150    | 170 |
| 70149 |       | 70563 |         | 14-17 |        |     |
| 70150 | Cu-Be | 70564 | Al-Bron | 16-17 | 155    | 200 |
| 70151 |       | 70565 |         | 16-18 | 165    | 210 |
| 70152 |       | 70566 |         | 17-19 | 170    | 230 |
| 70153 |       | 70567 |         | 17-22 | 175    | 270 |
| 70154 |       | 70568 |         | 18-19 | 180    | 280 |
| 76879 |       | 76880 |         | 18-20 |        |     |
| 74625 |       | 74626 |         | 19-20 | 185    | 330 |
| 70155 |       | 70569 |         | 19-22 |        |     |
| 70156 |       | 70570 |         | 19-24 | 195    | 360 |
| 70157 |       | 70571 |         | 20-22 |        |     |
| 74627 |       | 74628 |         | 21-22 | 200    | 390 |
| 70158 |       | 70572 |         | 21-23 |        |     |
| 75246 |       | 75247 |         | 22-23 | 210    | 410 |
| 70159 |       | 70573 |         | 22-24 |        |     |
| 70160 |       | 70574 |         | 22-27 | 220    | 440 |
| 76090 |       | 76091 |         | 23-25 |        |     |
| 76881 |       | 76882 |         | 23-26 | 240    | 470 |
| 75248 |       | 75249 |         | 24-25 |        |     |
| 70161 |       | 70575 |         | 24-26 | 240    | 500 |
| 70162 |       | 70576 |         | 24-27 |        |     |
| 72923 |       | 72922 |         | 24-30 | 230    | 550 |
| 70163 |       | 70577 |         | 25-28 |        |     |
| 76092 |       | 76093 |         | 26-27 | 240    | 550 |
| 74831 |       | 74832 |         | 26-29 |        |     |
| 76094 |       | 76095 |         | 27-28 | 250    | 650 |



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | g    |
|-------|-------|-------|---------|-------|--------|------|
| 70164 |       | 70578 |         | 27-29 | 250    | 650  |
| 75250 |       | 71821 |         | 27-30 |        |      |
| 75251 |       | 75252 |         | 28-30 | 700    | 750  |
| 72925 |       | 72924 |         | 27-32 |        |      |
| 75253 |       | 75254 |         | 30-31 | 260    | 900  |
| 70165 |       | 70579 |         | 30-32 |        |      |
| 73007 |       | 73006 |         | 30-34 | 260    | 900  |
| 72927 |       | 72926 |         | 30-36 |        |      |
| 75255 |       | 75256 |         | 32-34 | 300    | 1000 |
| 75257 |       | 75258 |         | 32-35 |        |      |
| 70166 |       | 70580 |         | 32-36 | 320    | 1100 |
| 75259 |       | 75260 |         | 33-35 |        |      |
| 70167 |       | 70581 |         | 34-36 | 330    | 1150 |
| 75261 | Cu-Be | 75262 | Al-Bron | 35-36 |        |      |
| 75263 |       | 75264 |         | 36-38 | 320    | 1500 |
| 73337 |       | 73336 |         | 36-41 | 330    |      |
| 73297 |       | 36443 |         | 38-40 | 340    | 1600 |
| 75265 |       | 75266 |         | 38-42 | 340    | 1600 |
| 70168 |       | 70582 |         | 41-46 | 350    | 1800 |
| 72921 |       | 72919 |         | 46-50 | 370    | 2100 |
| 73390 |       | 73389 |         | 50-52 | 380    | 2500 |
| 76096 |       | 76097 |         | 50-55 | 385    | 2500 |
| 76885 |       | 76886 |         | 50-60 | 400    | 3000 |
| 70169 |       | 70583 |         | 50-62 | 400    | 3000 |
| 70588 |       | 70584 |         | 55-60 | 410    | 3300 |
| 70589 |       | 70585 |         | 60-65 | 430    | 4550 |
| 70590 |       | 70586 |         | 65-70 | 460    | 7600 |
| 70591 |       | 70587 |         | 70-80 | 500    | 9200 |

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

## INCH



| COD.  | MAT.  | COD.  | MAT.    |  | L (mm) |  |
|-------|-------|-------|---------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|
| 36218 |       | 36219 |         | 3/16-1/4                                                                          |        | 22                                                                                |
| 70592 |       | 70637 |         | 7/32-1/4                                                                          |        |                                                                                   |
| 70593 |       | 70638 |         | 1/4-9/32                                                                          | 90     | 35                                                                                |
| 70594 |       | 70639 |         | 1/4-5/16                                                                          |        |                                                                                   |
| 70595 |       | 70640 |         | 5/16-3/8                                                                          | 100    | 45                                                                                |
| 70596 |       | 70641 |         | 3/8-7/16                                                                          | 110    | 60                                                                                |
| 75275 |       | 75276 |         | 3/8-1/2                                                                           | 115    | 65                                                                                |
| 70597 |       | 70642 |         | 7/16-1/2                                                                          | 120    | 85                                                                                |
| 70598 |       | 70643 |         | 1/2-9/16                                                                          | 130    | 90                                                                                |
| 70599 |       | 70644 |         | 1/2-5/8                                                                           |        | 100                                                                               |
| 70600 |       | 70645 |         | 1/2-11/16                                                                         |        | 110                                                                               |
| 70601 |       | 70646 |         | 9/16-5/8                                                                          | 150    | 120                                                                               |
| 70602 |       | 70647 |         | 9/16-3/4                                                                          |        | 130                                                                               |
| 70603 |       | 70648 |         | 19/32-11/16                                                                       |        | 140                                                                               |
| 70604 |       | 70649 |         | 19/32-25/32                                                                       |        | 150                                                                               |
| 74835 |       | 74836 |         | 5/8-11/16                                                                         | 165    |                                                                                   |
| 70605 |       | 70650 |         | 5/8-3/4                                                                           |        | 160                                                                               |
| 75277 |       | 75278 |         | 11/16-3/4                                                                         | 170    | 165                                                                               |
| 70606 |       | 70651 |         | 11/16-25/32                                                                       |        | 180                                                                               |
| 70607 |       | 70652 |         | 11/16-7/8                                                                         |        | 200                                                                               |
| 76887 |       | 76888 |         | 3/4-25/32                                                                         | 180    |                                                                                   |
| 70608 |       | 70653 |         | 3/4-13/16                                                                         |        | 220                                                                               |
| 70609 |       | 70654 |         | 3/4-7/8                                                                           |        |                                                                                   |
| 70610 |       | 70655 |         | 25/32-13/16                                                                       | 185    | 230                                                                               |
| 70611 |       | 70656 |         | 25/32-7/8                                                                         |        |                                                                                   |
| 70612 | Cu-Be | 70657 | Al-Bron | 13/16-7/8                                                                         | 190    | 240                                                                               |
| 70613 |       | 70658 |         | 7/8-15/16                                                                         | 210    | 300                                                                               |
| 70614 |       | 70659 |         | 7/8-31/32                                                                         |        | 320                                                                               |
| 70615 |       | 70660 |         | 7/8-1                                                                             |        | 340                                                                               |
| 70616 |       | 70661 |         | 15/16-1                                                                           | 220    | 360                                                                               |
| 70617 |       | 70662 |         | 7/8-1.1/16                                                                        |        | 380                                                                               |
| 70618 |       | 70663 |         | 15/16-1.1/16                                                                      |        | 410                                                                               |
| 74837 |       | 74838 |         | 1-1.1/16                                                                          | 230    |                                                                                   |
| 70619 |       | 70664 |         | 1-1.1/8                                                                           |        | 430                                                                               |
| 76889 |       | 76890 |         | 1-1.5/16                                                                          |        | 450                                                                               |
| 70620 |       | 70665 |         | 1.1/16-1.1/8                                                                      |        |                                                                                   |
| 70621 |       | 70666 |         | 1.1/16-1.1/4                                                                      | 250    | 500                                                                               |
| 74839 |       | 74840 |         | 1.1/8-1.3/16                                                                      |        |                                                                                   |
| 70622 |       | 70667 |         | 1.1/8-1.5/16                                                                      | 260    | 550                                                                               |
| 75281 |       | 75282 |         | 1.3/16-1.1/4                                                                      |        |                                                                                   |
| 70623 |       | 70668 |         | 1.1/16-1.7/16                                                                     |        | 600                                                                               |
| 70624 |       | 70669 |         | 1.1/8-1.1/2                                                                       | 270    |                                                                                   |
| 75283 |       | 75284 |         | 1.1/4-1.5/16                                                                      |        | 700                                                                               |
| 70625 |       | 70670 |         | 1.1/4-1.3/8                                                                       |        |                                                                                   |
| 70626 |       | 70671 |         | 1.1/4-1.7/16                                                                      | 290    | 850                                                                               |
| 75285 |       | 75286 |         | 1.5/16-1.3/8                                                                      |        | 900                                                                               |
| 70627 |       | 70672 |         | 1.5/16-1.1/2                                                                      |        |                                                                                   |
| 75287 |       | 75288 |         | 1.3/8-1.7/16                                                                      | 320    | 1000                                                                              |
| 70628 |       | 70673 |         | 1.3/8-1.1/2                                                                       |        | 1050                                                                              |
| 70629 |       | 70674 |         | 1.7/16-1.5/8                                                                      | 330    | 1250                                                                              |
| 75289 |       | 75290 |         | 1.1/2-1.9/16                                                                      |        | 1300                                                                              |
| 70630 |       | 70675 |         | 1.1/2-1.11/16                                                                     | 340    | 1500                                                                              |

| COD.  | MAT.  | COD.  | MAT.    |  | L (mm) |  |
|-------|-------|-------|---------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|
| 70631 |       | 70676 |         | 1.5/8-1.13/16                                                                       |        | 1800                                                                                |
| 70632 |       | 70677 |         | 1.3/4-1.5/8                                                                         | 350    | 2100                                                                                |
| 70633 |       | 70678 |         | 1.11/16-1.7/8                                                                       |        | 2500                                                                                |
| 70634 |       | 70679 |         | 1.13/16-2                                                                           | 370    |                                                                                     |
| 75291 | Cu-Be | 75292 | Al-Bron | 2-2.3/16                                                                            | 380    | 2800                                                                                |
| 75293 |       | 75294 |         | 2-2.3/8                                                                             | 400    |                                                                                     |
| 70635 |       | 70680 |         | 2.1/16-2.5/16                                                                       |        |                                                                                     |
| 75295 |       | 75296 |         | 2.3/16-2.3/8                                                                        | 410    | 3100                                                                                |
| 70636 |       | 70681 |         | 2.1/4-2.3/8                                                                         |        | 3300                                                                                |
| 75297 |       | 75298 |         | 2.3/8-2.9/16                                                                        | 430    | 3700                                                                                |



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■ LLAVES COMBINADAS / COMBINATION WRENCHES / CLÉS MIXTES / GABEL RINGSCHLÜSSEL / CHIAVI COMBINATE / CHAVES BOCA E LUNETA / КОМБИНИРОВАННЫЕ КЛЮЧИ

■ MM



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | g    |
|-------|-------|-------|---------|-------|--------|------|
| 36090 |       | 36091 |         | 5,5   | 90     | 35   |
| 70170 |       | 70682 |         | 6     | 115    |      |
| 70171 |       | 70683 |         | 7     | 120    | 40   |
| 70172 |       | 70684 |         | 8     | 125    | 45   |
| 70173 |       | 70685 |         | 9     | 130    | 60   |
| 70174 |       | 70686 |         | 10    | 135    | 65   |
| 70175 |       | 70687 |         | 11    | 140    | 70   |
| 70176 |       | 70688 |         | 12    | 145    | 85   |
| 70177 |       | 70689 |         | 13    | 155    | 95   |
| 70178 |       | 70690 |         | 14    | 165    | 100  |
| 70179 |       | 70691 |         | 15    | 175    | 110  |
| 70180 |       | 70692 |         | 16    | 185    | 150  |
| 70181 |       | 70693 |         | 17    | 195    | 160  |
| 70182 |       | 70694 |         | 18    | 200    | 190  |
| 70183 |       | 70695 |         | 19    | 210    | 210  |
| 70184 |       | 70696 |         | 20    | 220    | 240  |
| 70185 |       | 70697 |         | 21    | 230    | 260  |
| 70186 |       | 70698 |         | 22    | 240    | 280  |
| 70187 |       | 70699 |         | 23    | 250    | 350  |
| 70188 |       | 70700 |         | 24    | 260    | 380  |
| 70189 |       | 70701 |         | 25    | 270    | 400  |
| 70190 |       | 70702 |         | 26    | 270    | 420  |
| 70191 |       | 70703 |         | 27    | 280    | 480  |
| 70192 |       | 70704 |         | 28    | 290    | 500  |
| 70193 |       | 70705 |         | 29    | 300    | 650  |
| 70194 | Cu-Be | 70706 | Al-Bron | 30    | 310    | 700  |
| 70195 |       | 70707 |         | 31    | 320    | 750  |
| 70196 |       | 70708 |         | 32    | 330    | 800  |
| 72700 |       | 71786 |         | 33    |        | 850  |
| 72701 |       | 71787 |         | 34    |        | 850  |
| 70197 |       | 70709 |         | 35    | 340    |      |
| 70198 |       | 70710 |         | 36    |        | 950  |
| 79447 |       | 79449 |         | 37    | 350    | 1100 |
| 70199 |       | 70711 |         | 38    | 350    | 1100 |
| 79473 |       | 79474 |         | 39    | 360    | 1000 |
| 70200 |       | 70712 |         | 40    | 350    | 1100 |
| 70201 |       | 70713 |         | 41    | 370    | 1200 |
| 70202 |       | 70714 |         | 42    | 370    | 1200 |
| 79481 |       | 79482 |         | 43    |        | 1400 |
| 72654 |       | 72649 |         | 44    | 405    | 1300 |
| 76461 |       | 76462 |         | 45    |        | 1400 |
| 70203 |       | 70715 |         | 46    | 400    | 1550 |
| 74999 |       | 75190 |         | 47    |        | 1580 |
| 72678 |       | 74055 |         | 48    | 420    | 1700 |
| 75279 |       | 75364 |         | 49    |        | 1750 |
| 70204 |       | 70716 |         | 50    |        | 1750 |
| 73618 |       | 73619 |         | 52    | 430    | 2100 |
| 70205 |       | 70717 |         | 55    | 430    | 2200 |
| 73617 |       | 73620 |         | 58    | 455    | 2400 |
| 70206 |       | 70718 |         | 60    | 460    | 2600 |
| 70207 |       | 70719 |         | 65    | 470    | 3000 |
| 70208 |       | 70720 |         | 70    | 480    | 3550 |

| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | g    |
|-------|-------|-------|---------|-------|--------|------|
| 70209 |       | 70721 |         | 75    | 490    | 4100 |
| 70210 | Cu-Be | 70722 | Al-Bron | 80    |        | 4550 |
| 70211 |       | 70723 |         | 85    | 500    | 5350 |
| 70212 |       | 70724 |         | 90    |        | 5800 |

Cu-Be Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

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**ANTI-DEFLAGRANTE**  
**ИСКРОБЕЗОПАСНЫЙ**



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 ISO 9001:2015  
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■ INCH



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | g    |
|-------|-------|-------|---------|---------|--------|------|
| 72632 |       | 72624 |         | 7/32    | 90     |      |
| 70725 |       | 70751 |         | 1/4     | 115    | 25   |
| 75305 |       | 75306 |         | 9/32    | 120    |      |
| 70726 |       | 70752 |         | 5/16    | 125    | 30   |
| 70727 |       | 70753 |         | 11/32   |        | 35   |
| 70728 |       | 70754 |         | 3/8     | 130    | 40   |
| 76855 |       | 76856 |         | 13/32   |        |      |
| 70729 |       | 70755 |         | 7/16    | 135    | 55   |
| 70730 |       | 70756 |         | 1/2     | 140    | 70   |
| 70731 |       | 70757 |         | 9/16    |        | 80   |
| 75307 |       | 75308 |         | 19/32   | 165    | 95   |
| 70732 |       | 70758 |         | 5/8     | 175    | 130  |
| 70733 |       | 70759 |         | 11/16   | 195    | 140  |
| 70734 |       | 70760 |         | 3/4     | 210    |      |
| 76857 |       | 76858 |         | 25/32   |        | 200  |
| 70735 |       | 70761 |         | 13/16   | 230    |      |
| 70736 |       | 70762 |         | 7/8     |        | 280  |
| 70737 |       | 70763 |         | 15/16   |        | 330  |
| 76859 |       | 76860 |         | 31/32   | 260    | 360  |
| 70738 |       | 70764 |         | 1       |        |      |
| 70739 |       | 70765 |         | 1.1/16  | 280    | 460  |
| 70740 |       | 70766 |         | 1.1/8   | 300    | 500  |
| 72937 | Cu-Be | 72936 | Al-Bron | 1.3/16  |        | 550  |
| 70741 |       | 70767 |         | 1.1/4   | 320    | 700  |
| 70742 |       | 70768 |         | 1.5/16  |        |      |
| 70743 |       | 70769 |         | 1.3/8   | 350    | 1000 |
| 70744 |       | 70770 |         | 1.7/16  |        | 1150 |
| 70745 |       | 70771 |         | 1.1/2   |        |      |
| 75309 |       | 75310 |         | 1.9/16  | 360    | 1200 |
| 70746 |       | 70772 |         | 1.5/8   |        | 1350 |
| 70747 |       | 70773 |         | 1.11/16 |        |      |
| 75311 |       | 75312 |         | 1.3/4   | 370    | 1500 |
| 70748 |       | 70774 |         | 1.13/16 |        |      |
| 70749 |       | 70775 |         | 1.7/8   | 400    | 1600 |
| 78975 |       | 78976 |         | 1.15/16 |        |      |
| 70750 |       | 70776 |         | 2       | 420    | 1700 |
| 77132 |       | 77133 |         | 2.1/16  |        |      |
| 77156 |       | 77157 |         | 2.1/8   | 435    | 1800 |
| 76861 |       | 76862 |         | 2.3/16  |        |      |
| 79028 |       | 79029 |         | 2.1/4   | 455    | 2100 |
| 76863 |       | 76864 |         | 2.3/8   | 460    | 2400 |
| 76865 |       | 76866 |         | 2.9/16  |        |      |
| 76867 |       | 76868 |         | 2.5/8   | 470    | 2800 |
| 76869 |       | 76870 |         | 2.3/4   |        |      |
| 76463 |       | 76464 |         | 2.15/16 | 480    | 3300 |
| 72707 |       | 36442 |         | 3       | 510    | 4000 |
|       |       |       |         |         |        | 4100 |

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Аллюминий Бронза

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LLAVE COMBINADA DE CARRACA / COMBINATION RATCHET WRENCH / CLÉ MIXTA À CLIQUET / RATSCHET-RINGGABELSCHLÜSSEL / CHIAVE COMBINATA A CRICCO / CHAVE DE BOCA  
E LUNETA COM ROQUETE / КЛЮЧ ТРЕЩЕТОЧНЫЙ КОМБИНИРОВАННЫЙ



| COD.  | MAT.  | COD.  | MAT.    | AP mm | L (mm) | g   |
|-------|-------|-------|---------|-------|--------|-----|
| 72683 |       | 74102 |         | 8     | 155    | 150 |
| 72641 |       | 74121 |         | 10    | 165    | 180 |
| 73761 |       | 74136 |         | 12    | 175    | 200 |
| 73764 |       | 74161 |         | 13    |        | 240 |
| 36304 |       | 36328 |         | 14    | 190    |     |
| 36315 |       | 36329 |         | 15    |        | 245 |
| 73771 | Cu-Be | 74188 | Al-Bron | 17    |        | 250 |
| 36316 |       | 36332 |         | 18    | 220    | 250 |
| 73867 |       | 74191 |         | 19    | 240    | 310 |
| 36317 |       | 36333 |         | 22    | 270    | 420 |
| 36318 |       | 36334 |         | 24    | 290    | 570 |
| 36319 |       | 36335 |         | 27    | 315    | 750 |

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**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

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ART IN INNOVATION

1055

LLAVES ACODADAS / DOUBLE OFFSET RING WRENCHES / CLÉS POLYGONALES CONTRE-COUDÉES / RINGSCHLÜSSEL / CHIAVI POLIGONALI / CHAVES LUNETA / ДВОЙНАЯ ИЗОГНУТАЯ ЗВЕЗДОЧКА

MM



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | g    |
|-------|-------|-------|---------|-------|--------|------|
| 75320 |       | 75321 |         | 5,5-7 |        | 20   |
| 70213 |       | 70777 |         | 6-7   | 120    | 25   |
| 75322 |       | 75323 |         | 6-8   |        | 35   |
| 70214 |       | 70778 |         | 7-9   |        | 50   |
| 70215 |       | 70779 |         | 8-9   |        | 55   |
| 70216 |       | 70780 |         | 8-10  | 130    | 60   |
| 70217 |       | 70781 |         | 9-10  |        | 70   |
| 70218 |       | 70782 |         | 9-11  |        | 80   |
| 70219 |       | 70783 |         | 10-11 |        | 85   |
| 75324 |       | 75325 |         | 10-12 |        | 100  |
| 75326 |       | 75327 |         | 10-13 | 160    | 110  |
| 70220 |       | 70784 |         | 10-14 |        | 120  |
| 75318 |       | 75319 |         | 11-12 |        | 150  |
| 75328 |       | 75329 |         | 11-13 |        | 190  |
| 70221 |       | 70785 |         | 11-14 |        | 200  |
| 70222 |       | 70786 |         | 12-13 |        | 210  |
| 70223 |       | 70787 |         | 12-14 | 180    | 220  |
| 70224 |       | 70788 |         | 13-14 |        | 260  |
| 70225 |       | 70789 |         | 13-15 |        | 290  |
| 36552 |       | 36553 |         | 13-17 | 190    | 300  |
| 70226 |       | 70790 |         | 14-15 |        | 310  |
| 72133 |       | 72137 |         | 14-16 |        | 350  |
| 72134 |       | 72138 |         | 14-17 | 220    | 370  |
| 70227 |       | 70791 |         | 16-17 |        | 400  |
| 70228 |       | 70792 |         | 16-18 |        | 420  |
| 70229 | Cu-Be | 70793 | Al-Bron | 17-19 |        | 450  |
| 75330 |       | 75331 |         | 17-21 |        | 470  |
| 70230 |       | 70794 |         | 17-22 | 250    | 480  |
| 70231 |       | 70795 |         | 18-19 |        | 500  |
| 75332 |       | 75333 |         | 19-21 |        | 550  |
| 70232 |       | 70796 |         | 19-22 |        | 600  |
| 70233 |       | 70797 |         | 19-24 | 280    | 650  |
| 70234 |       | 70798 |         | 20-22 |        | 700  |
| 70235 |       | 70799 |         | 21-23 |        | 750  |
| 75334 |       | 75335 |         | 21-26 | 310    | 800  |
| 75336 |       | 75337 |         | 22-23 |        | 850  |
| 70236 |       | 70800 |         | 22-24 |        | 900  |
| 70237 |       | 70801 |         | 22-27 |        | 950  |
| 75338 |       | 75339 |         | 23-26 |        | 1000 |
| 75340 |       | 75341 |         | 24-25 |        | 1050 |
| 72822 |       | 72823 |         | 24-26 | 340    | 1100 |
| 73339 |       | 73338 |         | 24-27 |        | 1150 |
| 70238 |       | 70802 |         | 24-30 |        | 1200 |
| 70239 |       | 70803 |         | 25-28 |        | 1250 |
| 74833 |       | 74834 |         | 26-29 |        | 1300 |
| 75469 |       | 75470 |         | 26-32 | 250    | 1350 |
| 70240 |       | 70804 |         | 27-29 | 340    | 1400 |
| 70241 |       | 70805 |         | 27-30 |        | 1450 |
| 70242 |       | 70806 |         | 27-32 | 360    | 1500 |
| 75342 |       | 75343 |         | 29-32 |        | 1550 |

| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | g    |
|-------|-------|-------|---------|-------|--------|------|
| 70243 |       | 70807 |         | 30-32 |        | 800  |
| 76891 |       | 76892 |         | 30-34 | 380    | 850  |
| 72956 |       | 72912 |         | 31-33 |        | 1050 |
| 70244 |       | 70808 |         | 30-36 |        | 1100 |
| 75344 |       | 75345 |         | 32-34 |        | 1150 |
| 72957 |       | 72913 |         | 32-35 | 420    | 1550 |
| 72135 |       | 72139 |         | 32-36 |        | 1600 |
| 72136 |       | 72140 |         | 34-36 |        | 1700 |
| 70245 |       | 70809 |         | 36-38 |        | 1750 |
| 75346 |       | 75347 |         | 35-41 |        | 1800 |
| 75348 |       | 75349 |         | 38-40 | 455    | 1850 |
| 70246 | Cu-Be | 70810 | Al-Bron | 36-41 |        | 1900 |
| 75350 |       | 75351 |         | 38-42 |        | 2000 |
| 70247 |       | 70811 |         | 41-46 | 470    | 2050 |
| 72251 |       | 72250 |         | 46-50 | 490    | 2100 |
| 73392 |       | 73391 |         | 50-52 | 510    | 2150 |
| 75352 |       | 75353 |         | 50-55 |        | 2200 |
| 75354 |       | 75355 |         | 50-60 | 535    | 2250 |
| 72253 |       | 72252 |         | 55-60 |        | 2300 |
| 75356 |       | 75357 |         | 60-70 | 540    | 2350 |
| 72255 |       | 72254 |         | 65-70 |        | 2400 |
| 76893 |       | 76894 |         | 70-75 | 550    | 2450 |
| 72257 |       | 72256 |         | 75-80 | 700    | 2500 |



37

ANTICHISPA  
NON-SPARKING  
ANTIDÉFLAGRANT  
FUNKENFREI  
ANTISCINTILLA  
ANTI-DEFLAGRANTE  
ИСКРОБЕЗОПАСНЫЙ



■ INCH





| COD.  | MAT.  | COD.  | MAT.    |  | L (mm) |  |
|-------|-------|-------|---------|-----------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|
| 70812 |       | 70841 |         | 7/32-1/4                                                                          | 120    | 30                                                                                  |
| 74841 |       | 74842 |         | 1/4-5/16                                                                          |        |                                                                                     |
| 70813 |       | 70842 |         | 5/16-3/8                                                                          | 130    | 45                                                                                  |
| 70814 |       | 70843 |         | 3/8-7/16                                                                          |        | 60                                                                                  |
| 70815 |       | 70844 |         | 7/16-1/2                                                                          | 160    | 90                                                                                  |
| 70816 |       | 70845 |         | 1/2-9/16                                                                          | 180    | 115                                                                                 |
| 70817 |       | 70846 |         | 9/16-5/8                                                                          |        | 190                                                                                 |
| 74843 |       | 74844 |         | 5/8-11/16                                                                         |        | 200                                                                                 |
| 70818 |       | 70847 |         | 5/8-3/4                                                                           | 220    | 230                                                                                 |
| 75365 |       | 75366 |         | 11/16-3/4                                                                         |        |                                                                                     |
| 70819 |       | 70848 |         | 11/16-25/32                                                                       |        | 240                                                                                 |
| 70820 |       | 70849 |         | 3/4-13/16                                                                         |        | 290                                                                                 |
| 70821 |       | 70850 |         | 13/16-7/8                                                                         | 280    | 350                                                                                 |
| 70822 |       | 70851 |         | 7/8-15/16                                                                         |        | 400                                                                                 |
| 70823 |       | 70852 |         | 7/8-31/32                                                                         |        | 420                                                                                 |
| 70824 |       | 70853 |         | 7/8-1                                                                             | 310    | 440                                                                                 |
| 70825 |       | 70854 |         | 7/8-1.1/16                                                                        |        | 480                                                                                 |
| 70826 |       | 70855 |         | 15/16-1                                                                           |        | 490                                                                                 |
| 70827 |       | 70856 |         | 15/16-1.1/16                                                                      |        | 500                                                                                 |
| 70828 |       | 70857 |         | 1-1.1/16                                                                          |        |                                                                                     |
| 70829 |       | 70858 |         | 1-1.1/8                                                                           | 340    | 550                                                                                 |
| 70830 |       | 70859 |         | 1.1/16-1.1/8                                                                      |        |                                                                                     |
| 70831 | Cu-Be | 70860 | Al-Bron | 1.1/16-1.1/4                                                                      | 360    | 600                                                                                 |
| 74845 |       | 74846 |         | 1.1/8-1.3/16                                                                      |        | 700                                                                                 |
| 70832 |       | 70861 |         | 1.1/8-1.5/16                                                                      |        |                                                                                     |
| 76895 |       | 76896 |         | 1.1/8-1.1/2                                                                       |        |                                                                                     |
| 75367 |       | 75368 |         | 1.3/16-1.1/4                                                                      | 380    | 800                                                                                 |
| 70833 |       | 70862 |         | 1.1/4-1.5/16                                                                      |        | 1000                                                                                |
| 70834 |       | 70863 |         | 1.1/4-1.7/16                                                                      |        |                                                                                     |
| 75369 |       | 75370 |         | 1.5/16-1.3/8                                                                      | 420    | 1100                                                                                |
| 75371 |       | 75372 |         | 1.3/8-1.7/16                                                                      |        | 1350                                                                                |
| 70835 |       | 70864 |         | 1.7/16-1.5/8                                                                      |        | 1600                                                                                |
| 75373 |       | 75374 |         | 1.1/2-1.9/16                                                                      | 455    | 1700                                                                                |
| 70836 |       | 70865 |         | 1.5/8-1.13/16                                                                     | 470    | 2050                                                                                |
| 70837 |       | 70866 |         | 1.13/16-2                                                                         | 490    | 2550                                                                                |
| 75375 |       | 75376 |         | 2-2.3/16                                                                          |        |                                                                                     |
| 70838 |       | 70867 |         | 2.1/16-2.3/16                                                                     | 510    | 2800                                                                                |
| 70839 |       | 70868 |         | 2-2.3/8                                                                           |        | 3000                                                                                |
| 75377 |       | 75378 |         | 2.3/16-2.3/8                                                                      | 535    | 3100                                                                                |
| 70840 |       | 70869 |         | 2.1/4-2.3/8                                                                       |        | 3500                                                                                |
| 75379 |       | 75380 |         | 2.3/8-2.3/4                                                                       |        | 3900                                                                                |
| 76755 |       | 76756 |         | 2.3/8-2.7/16                                                                      | 540    | 4000                                                                                |
| 75381 |       | 75382 |         | 2.9/16-2.3/4                                                                      |        | 4200                                                                                |
| 75383 |       | 75384 |         | 2.3/4-2.15/16                                                                     | 550    | 4300                                                                                |


**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

Si no encuentra el artículo que necesita, consúltenos en [consulta@egamaster.com](mailto:consulta@egamaster.com) o en [www.egamaster.com](http://www.egamaster.com)  
 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
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**■ KIT DEMO 6 LLAVES / 6 SPANNER DEMO KIT / KIT DÉMO. 6 CLÉS / DEMOKIT 6 SCHLÜSSEL / KIT 6 CHIAVI DI DIMOSTRAZIONE / KIT DEMO 6 CHAVES / ДЕМО НАБОР ИЗ 6 КЛЮЧЕЙ**

| COD.         |       |
|--------------|----------------------------------------------------------------------------------------|
| <b>69342</b> | 300                                                                                    |
| COD. PCS.    |  mm |
| 61727        | Aerospacial / <i>Aerospatial</i>                                                       |
| 38092        | INOX                                                                                   |
| 73062        | 1000V                                                                                  |
| 70172        | Cu-Be                                                                                  |
| 70684        | Al-Bron                                                                                |
| 71669        | Titano / <i>Titanium</i>                                                               |



**■ SET**
**■ LLAVES FIJAS / OPEN-END WRENCHES / CLÉS À FOURCHE / GABELSCHLÜSSEL / CHIAVI FISSE / CHAVES DUAS BOCAS / РОЖКОВЫЕ КЛЮЧИ**
**■ MM**

| COD.         | MAT.  | PCS. |  | COD. PCS.                                                                          | (mm)                                                                           |
|--------------|-------|------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>76400</b> | Cu-Be | 6    | 90052                                                                             | 70135, 70138, 70142, 70146, 70148, 70150                                           | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17                                           |
| <b>76402</b> |       | 8    | 90053                                                                             | 70135, 70138, 70142, 70146, 70148, 70150, 70154, 70157                             | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22                             |
| <b>76404</b> |       | 10   | 90054                                                                             | 70135, 70138, 70142, 70146, 70148, 70150, 70154, 70157, 70158, 70161               | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26               |
| <b>76406</b> |       | 12   | 90055                                                                             | 70135, 70138, 70142, 70146, 70148, 70150, 70154, 70157, 70158, 70161, 70163, 70165 | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26, 25-28, 30-32 |
| <b>76408</b> |       | 12   | 90055                                                                             | 70135, 70138, 70142, 70146, 70148, 70150, 70154, 70157, 70158, 70162, 70163, 70165 | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-27, 25-28, 30-32 |


**■ MM**


| COD.         | MAT.    | PCS. |  | COD. PCS.                                                                          | (mm)                                                                           |
|--------------|---------|------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>76401</b> | Al-Bron | 6    | 90052                                                                               | 70549, 70552, 70556, 70560, 70562, 70564                                           | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17                                           |
| <b>76403</b> |         | 8    | 90053                                                                               | 70549, 70552, 70556, 70560, 70562, 70564, 70568, 70571                             | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22                             |
| <b>76405</b> |         | 10   | 90054                                                                               | 70549, 70552, 70556, 70560, 70562, 70564, 70568, 70571, 70572, 70575               | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26               |
| <b>76407</b> |         | 12   | 90055                                                                               | 70549, 70552, 70556, 70560, 70562, 70564, 70568, 70571, 70572, 70575, 70577, 70579 | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26, 25-28, 30-32 |
| <b>76409</b> |         | 12   | 90055                                                                               | 70549, 70552, 70556, 70560, 70562, 70564, 70568, 70571, 70572, 70576, 70577, 70579 | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-27, 25-28, 30-32 |


**■ INCH**

| COD.         | MAT.  | PCS. |  | COD. PCS.                                                                          | (inch)                                                                                                                        |
|--------------|-------|------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>76410</b> | Cu-Be | 6    | 90052                                                                               | 70596, 70598, 70601, 70603, 74835, 70612                                           | 3/8-7/16, 1/2-9/16, 9/16-5/8, 19/32-11/16, 5/8-11/16, 13/16-7/8                                                               |
| <b>76412</b> |       | 8    | 90053                                                                               | 70596, 70598, 70601, 70603, 74835, 70612, 70609, 70616                             | 3/8-7/16, 1/2-9/16, 9/16-5/8, 19/32-11/16, 5/8-11/16, 3/4-7/8, 13/16-7/8, 15/16-1                                             |
| <b>76414</b> |       | 10   | 90054                                                                               | 70594, 70595, 70596, 70598, 70601, 70612, 70616, 70619, 70621, 74835               | 1/4-5/16, 5/16-3/8, 3/8-7/16, 1/2-9/16, 9/16-5/8, 5/8-11/16, 13/16-7/8, 15/16-1, 1-1.1/8, 1.1/16-1.1/4                        |
| <b>76416</b> |       | 12   | 90055                                                                               | 70594, 70595, 70596, 70598, 70601, 70609, 70612, 70616, 70619, 70620, 70621, 74835 | 1/4-5/16, 5/16-3/8, 3/8-7/16, 1/2-9/16, 9/16-5/8, 5/8-11/16, 3/4-7/8, 13/16-7/8, 15/16-1, 1-1.1/8, 1.1/16-1.1/8, 1.1/16-1.1/4 |




## INCH

| COD.  | MAT.    | PCS. |  | COD. PCS.                                                                          | (inch)                                                                                                                        |
|-------|---------|------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 76411 | Al-Bron | 6    | 90052                                                                             | 70641, 70643, 70646, 70648, 70657, 74836                                           | 3/8-7/16, 1/2-9/16, 9/16-5/8, 19/32-11/16, 5/8-11/16, 13/16-7/8                                                               |
| 76413 |         | 8    | 90053                                                                             | 70641, 70643, 70646, 70648, 70654, 70657, 70661, 74836                             | 3/8-7/16, 1/2-9/16, 9/16-5/8, 19/32-11/16, 5/8-11/16, 3/4-7/8, 13/16-7/8, 15/16-1                                             |
| 76415 |         | 10   | 90054                                                                             | 70639, 70640, 70641, 70643, 70646, 70657, 70661, 70664, 70666, 74836               | 1/4-5/16, 5/16-3/8, 3/8-7/16, 1/2-9/16, 9/16-5/8, 5/8-11/16, 13/16-7/8, 15/16-1, 1-1.1/8, 1.1/16-1.1/4                        |
| 76417 |         | 12   | 90055                                                                             | 70639, 70640, 70641, 70643, 70646, 70654, 70657, 70661, 70664, 70665, 70666, 74836 | 1/4-5/16, 5/16-3/8, 3/8-7/16, 1/2-9/16, 9/16-5/8, 5/8-11/16, 3/4-7/8, 13/16-7/8, 15/16-1, 1-1.1/8, 1.1/16-1.1/8, 1.1/16-1.1/4 |




## LLAVES COMBINADAS / COMBINATION WRENCHES / CLÉS MIXTES / RINGGABELSCHLÜSSEL / CHIAVI COMBinate / CHAVES BOCA E LUNETA / КОМБИНИРОВАННЫЕ КЛЮЧИ

## MM

| COD.  | MAT.  | PCS. |  | COD. PCS.                                                                                                                                                                            | (mm)                                                                                               |
|-------|-------|------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 76418 | Cu-Be | 6    | 90052                                                                             | 70172, 70174, 70176, 70178, 70181, 70183                                                                                                                                             | 8, 10, 12, 14, 17, 19                                                                              |
| 76420 |       | 8    | 90081                                                                             | 70172, 70174, 70176, 70177, 70178, 70181, 70183, 70186,                                                                                                                              | 8, 10, 12, 13, 14, 17, 19, 22                                                                      |
| 76422 |       | 10   | 90082                                                                             | 70172, 70173, 70174, 70175, 70176, 70177, 70178, 70181, 70183, 70186                                                                                                                 | 8, 9, 10, 11, 12, 13, 14, 17, 19, 22                                                               |
| 76424 |       | 12   | 90083                                                                             | 70170, 70171, 70172, 70173, 70174, 70175, 70176, 70177, 70178, 70179, 70180, 70181                                                                                                   | 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17                                                         |
| 76426 |       | 14   | 90063                                                                             | 70174, 70175, 70176, 70178, 70180, 70181, 70183, 70184, 70186, 70188, 70189, 70191, 70192, 70196                                                                                     | 10, 11, 12, 14, 16, 17, 19, 20, 22, 24, 25, 27, 28, 32                                             |
| 76428 |       | 17   | 90064                                                                             | 70170, 70171, 70172, 70173, 70174, 70175, 70176, 70177, 70178, 70179, 70180, 70181, 70182, 70183, 70184, 70185, 70186                                                                | 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22                                     |
| 76430 |       | 17   | 90064                                                                             | 70171, 70172, 70173, 70174, 70175, 70176, 70177, 70178, 70179, 70180, 70181, 70182, 70183, 70184, 70185, 70186, 70188                                                                | 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24                                    |
| 76432 |       | 26   | 90059, 90064                                                                      | 70170, 70171, 70172, 70173, 70174, 70175, 70176, 70177, 70178, 70179, 70180, 70181, 70182, 70183, 70184, 70185, 70186, 70187, 70188, 70189, 70190, 70191, 70192, 70193, 70194, 70196 | 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32 |




## MM

| COD.  | MAT.    | PCS. |  | COD. PCS.                                                                                                                                                                            | (mm)                                                                                               |
|-------|---------|------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 76419 | Al-Bron | 6    | 90052                                                                               | 70684, 70686, 70688, 70690, 70693, 70695                                                                                                                                             | 8, 10, 12, 14, 17, 19                                                                              |
| 76421 |         | 8    | 90081                                                                               | 70684, 70686, 70688, 70689, 70690, 70693, 70695, 70698                                                                                                                               | 8, 10, 12, 13, 14, 17, 19, 22                                                                      |
| 76423 |         | 10   | 90082                                                                               | 70684, 70685, 70686, 70687, 70688, 70689, 70690, 70693, 70695, 70698                                                                                                                 | 8, 9, 10, 11, 12, 13, 14, 17, 19, 22                                                               |
| 76425 |         | 12   | 90083                                                                               | 70682, 70683, 70684, 70685, 70686, 70687, 70688, 70689, 70690, 70691, 70692, 70693                                                                                                   | 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17                                                         |
| 76427 |         | 14   | 90063                                                                               | 70686, 70687, 70688, 70690, 70692, 70693, 70695, 70696, 70698, 70700, 70701, 70703, 70704, 70708                                                                                     | 10, 11, 12, 14, 16, 17, 19, 20, 22, 24, 25, 27, 28, 32                                             |
| 76429 |         | 17   | 90064                                                                               | 70682, 70683, 70684, 70685, 70686, 70687, 70688, 70689, 70690, 70691, 70692, 70693, 70694, 70695, 70696, 70697, 70698                                                                | 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22                                     |
| 76431 |         | 17   | 90064                                                                               | 70683, 70684, 70685, 70686, 70687, 70688, 70689, 70690, 70691, 70692, 70693, 70694, 70695, 70696, 70697, 70698, 70700                                                                | 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24                                    |
| 76433 |         | 26   | 90059, 90064                                                                        | 70682, 70683, 70684, 70685, 70686, 70687, 70688, 70689, 70690, 70691, 70692, 70693, 70694, 70695, 70696, 70697, 70698, 70699, 70700, 70701, 70702, 70703, 70704, 70705, 70706, 70708 | 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32 |




## INCH

| COD.  | MAT.  | PCS. |  | COD. PCS.                                                                                        | (inch)                                                                            |
|-------|-------|------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 76434 | Cu-Be | 6    | 90080                                                                               | 70728, 70729, 70730, 70731, 70732, 70734                                                         | 3/8, 7/16, 1/2, 9/16, 5/8, 3/4                                                    |
| 76436 |       | 8    | 90081                                                                               | 70726, 70728, 70729, 70730, 70731, 70732, 70733, 70734                                           | 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4                                       |
| 76438 |       | 10   | 90082                                                                               | 70728, 70729, 70730, 70731, 70732, 70733, 70734, 70735, 70736, 70738                             | 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 1                              |
| 76440 |       | 12   | 90083                                                                               | 70726, 70728, 70729, 70730, 70731, 70732, 70733, 70734, 70735, 70736, 70737, 70738               | 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1                 |
| 76442 |       | 14   | 90063                                                                               | 70728, 70729, 70730, 70731, 70732, 70733, 70734, 70735, 70736, 70737, 70738, 70739, 70740, 70741 | 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1.1/16, 1.1/8, 1.1/4 |




Al-Bron Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronz / Сплав Аллюминий Бронза  
Cu-Be Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Копер бериллий / Rame-berillio / Сплав Медь Бериллий

## INCH

| COD.  | MAT.    | PCS. |  | COD. PCS.                                                                                        | (inch)                                                                            |
|-------|---------|------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 76435 | Al-Bron | 6    | 90080                                                                             | 70754, 70755, 70756, 70757, 70758, 70760                                                         | 3/8, 7/16, 1/2, 9/16, 5/8, 3/4                                                    |
| 76437 |         | 8    | 90081                                                                             | 70752, 70754, 70755, 70756, 70757, 70758, 70759, 70760                                           | 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4                                       |
| 76439 |         | 10   | 90082                                                                             | 70754, 70755, 70756, 70757, 70758, 70759, 70760, 70761, 70762, 70764                             | 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 1                              |
| 76441 |         | 12   | 90083                                                                             | 70752, 70754, 70755, 70756, 70757, 70758, 70759, 70760, 70761, 70762, 70763, 70764               | 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1                 |
| 76443 |         | 14   | 90063                                                                             | 70754, 70755, 70756, 70757, 70758, 70759, 70760, 70761, 70762, 70763, 70764, 70765, 70766, 70767 | 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1.1/16, 1.1/8, 1.1/4 |



**LLAVES ACODADAS / DOUBLE OFFSET RING WRENCHES / CLÉS POLYGONALES CONTRE-COUDÉES / RINGSCHLÜSSEL / CHIAVI POLIGONALI / CHAVES LUNETA / КЛЮЧИ ДВОЙНАЯ ИЗГНУТАЯ ЗВЕЗДОЧКА**

## MM

| COD.  | MAT.  | PCS. |  | COD. PCS.                                                                          | (mm)                                                                           |
|-------|-------|------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 76444 | Cu-Be | 6    | 90056                                                                             | 70213, 70215, 70219, 70222, 70226, 70227                                           | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17                                           |
| 76446 |       | 8    | 90057                                                                             | 70213, 70215, 70219, 70222, 70226, 70227, 70231, 70234                             | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22                             |
| 76448 |       | 10   | 90058                                                                             | 70213, 70215, 70219, 70222, 70226, 70227, 70231, 70234, 70235, 72822               | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26               |
| 76450 |       | 12   | 90059                                                                             | 70213, 70215, 70219, 70222, 70226, 70227, 70231, 70234, 70235, 70239, 70243, 72822 | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26, 25-28, 30-32 |




## MM

| COD.  | MAT.    | PCS. |  | COD. PCS.                                                                          | (mm)                                                                           |
|-------|---------|------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 76445 | Al-Bron | 6    | 90056                                                                               | 70777, 70779, 70783, 70786, 70790, 70791                                           | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17                                           |
| 76447 |         | 8    | 90057                                                                               | 70777, 70779, 70783, 70786, 70790, 70791, 70795, 70798                             | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22                             |
| 76449 |         | 10   | 90058                                                                               | 70777, 70779, 70783, 70786, 70790, 70791, 70795, 70798, 70799, 72823               | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26               |
| 76451 |         | 12   | 90059                                                                               | 70777, 70779, 70783, 70786, 70790, 70791, 70795, 70798, 70799, 72823, 70803, 70807 | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26, 25-28, 30-32 |




## INCH

| COD.  | MAT.  | PCS. |  | COD. PCS.                                                                          | (inch)                                                                                                                          |
|-------|-------|------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 76452 | Cu-Be | 6    | 90056                                                                               | 70814, 70816, 70817, 70818, 70821, 74843                                           | 3/8-7/16, 1/2-9/16, 9/16-5/8, 5/8-3/4, 5/8-11/16, 13/16-7/8                                                                     |
| 76454 |       | 8    | 90057                                                                               | 70814, 70816, 70817, 70818, 70820, 70821, 70826, 74843                             | 3/8-7/16, 1/2-9/16, 9/16-5/8, 5/8-3/4, 5/8-11/16, 3/4-13/16, 13/16-7/8, 15/16-1                                                 |
| 76456 |       | 10   | 90058                                                                               | 70813, 70814, 70816, 70817, 70821, 70826, 70829, 70831, 74841, 74843               | 1/4-5/16, 5/16-3/8, 3/8-7/16, 1/2-9/16, 9/16-5/8, 5/8-11/16, 13/16-7/8, 15/16-1, 1-1.1/8, 1.1/16-1.1/4                          |
| 76458 |       | 12   | 90059                                                                               | 70813, 70814, 70816, 70817, 70820, 70821, 70826, 70829, 70830, 70831, 74841, 74843 | 1/4-5/16, 5/16-3/8, 3/8-7/16, 1/2-9/16, 9/16-5/8, 5/8-11/16, 3/4-13/16, 13/16-7/8, 15/16-1, 1-1.1/8, 1.1/16-1.1/8, 1.1/16-1.1/4 |



## INCH

| COD.  | MAT.    | PCS. |  | COD. PCS.                                                                          | (inch)                                                                                                                          |
|-------|---------|------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 76453 | Al-Bron | 6    | 90056                                                                               | 70843, 70845, 70846, 70847, 70850, 74844                                           | 3/8-7/16, 1/2-9/16, 9/16-5/8, 5/8-3/4, 5/8-11/16, 13/16-7/8                                                                     |
| 76455 |         | 8    | 90057                                                                               | 70843, 70845, 70846, 70847, 70849, 70850, 70855, 74844                             | 3/8-7/16, 1/2-9/16, 9/16-5/8, 5/8-3/4, 5/8-11/16, 3/4-13/16, 13/16-7/8, 15/16-1                                                 |
| 76457 |         | 10   | 90058                                                                               | 70842, 70843, 70845, 70846, 70847, 70849, 70850, 70855, 70858, 70860, 74842, 74844 | 1/4-5/16, 5/16-3/8, 3/8-7/16, 1/2-9/16, 9/16-5/8, 5/8-11/16, 13/16-7/8, 15/16-1, 1-1.1/8, 1.1/16-1.1/4                          |
| 76459 |         | 12   | 90059                                                                               | 70842, 70843, 70845, 70846, 70849, 70850, 70855, 70858, 70859, 70860, 74842, 74844 | 1/4-5/16, 5/16-3/8, 3/8-7/16, 1/2-9/16, 9/16-5/8, 5/8-11/16, 3/4-13/16, 13/16-7/8, 15/16-1, 1-1.1/8, 1.1/16-1.1/8, 1.1/16-1.1/4 |





**LLAVE ESTRELLA PLANA / DOUBLE ENDED FLAT RING SPANNER / POLYGONALE PLATE / DOPPELRINGSCHLÜSSEL / POLIGONALE DIRITTA / LUNETTA DIREITA / ДВОЙНАЯ ИЗОГНУТАЯ ПЛОСКАЯ ЗВЕЗДОЧКА**

■ **MM**



■ **INCH**



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | g   |
|-------|-------|-------|---------|-------|--------|-----|
| 76817 |       | 76818 |         | 6-7   | 95     | 30  |
| 73960 |       | 73961 |         | 7-9   | 115    | 32  |
| 76819 |       | 76820 |         | 8-10  | 125    | 37  |
| 76821 |       | 76822 |         | 9-11  | 140    | 55  |
| 73962 |       | 73963 |         | 10-11 | 145    | 70  |
| 75418 |       | 75419 |         | 10-12 | 155    | 85  |
| 73964 |       | 73965 |         | 12-14 | 165    | 100 |
| 77130 |       | 77131 |         | 13-15 | 170    | 115 |
| 73966 |       | 73967 |         | 14-17 | 185    | 130 |
| 73968 |       | 73969 |         | 16-18 | 195    | 140 |
| 76084 |       | 76085 |         | 17-19 | 200    | 180 |
| 73970 |       | 73971 |         | 18-19 | 200    | 180 |
| 73972 |       | 73973 |         | 17-22 | 200    | 180 |
| 73974 | Cu-Be | 73975 | Al-Bron | 19-21 | 200    | 180 |
| 75420 |       | 75421 |         | 19-22 | 220    | 240 |
| 73976 |       | 73977 |         | 20-22 | 220    | 240 |
| 36554 |       | 36555 |         | 21-22 | 220    | 240 |
| 73978 |       | 73979 |         | 21-23 | 255    | 320 |
| 73980 |       | 73981 |         | 22-24 | 265    | 360 |
| 73982 |       | 73983 |         | 24-27 | 265    | 360 |
| 73984 |       | 73985 |         | 25-28 | 280    | 390 |
| 77134 |       | 77135 |         | 26-28 | 280    | 390 |
| 73986 |       | 73987 |         | 27-30 | 295    | 470 |
| 73988 |       | 73989 |         | 27-32 | 295    | 470 |
| 73990 |       | 73991 |         | 30-32 | 330    | 600 |
| 77136 |       | 77137 |         | 30-36 | 330    | 600 |
| 74771 |       | 74772 |         | 32-36 | 365    | 900 |
| 74773 |       | 74774 |         | 36-41 | 365    | 900 |

| COD.  | MAT.  | COD.  | MAT.    | AF inch       | L (mm) | g    |
|-------|-------|-------|---------|---------------|--------|------|
| 76781 |       | 76782 |         | 7/32-1/4      | 100    | 20   |
| 76783 |       | 76784 |         | 1/4-5/16      | 115    | 40   |
| 76785 |       | 76786 |         | 5/16-3/8      | 140    | 55   |
| 76787 |       | 76788 |         | 3/8-7/16      | 160    | 95   |
| 76789 |       | 76790 |         | 7/16-9/16     | 180    | 110  |
| 77138 |       | 77139 |         | 1/2-19/32     | 180    | 110  |
| 76791 |       | 76792 |         | 1/2-5/8       | 225    | 250  |
| 76793 |       | 76794 |         | 9/16-11/16    | 225    | 250  |
| 76795 |       | 76796 |         | 5/8-25/32     | 250    | 350  |
| 76797 |       | 76798 |         | 11/16-3/4     | 250    | 350  |
| 77140 |       | 77141 |         | 11/16-13/16   | 280    | 430  |
| 76799 | Cu-Be | 76800 | Al-Bron | 3/4-7/8       | 280    | 430  |
| 76801 |       | 76802 |         | 13/16-15/16   | 300    | 550  |
| 76803 |       | 76804 |         | 7/8-15/16     | 300    | 550  |
| 76805 |       | 76806 |         | 15/16-1.1/16  | 310    | 650  |
| 76807 |       | 76808 |         | 1-1.1/8       | 310    | 650  |
| 76809 |       | 76810 |         | 1.1/16-1.3/16 | 340    | 750  |
| 77142 |       | 77143 |         | 1.1/8-1.5/16  | 340    | 750  |
| 76811 |       | 76812 |         | 1.3/16-1.1/4  | 360    | 1000 |
| 77144 |       | 77145 |         | 1.1/4-1.3/8   | 360    | 1000 |
| 76813 |       | 76814 |         | 1.1/4-1.7/16  | 380    | 1350 |
| 77146 |       | 77147 |         | 1.5/16-1.7/16 | 380    | 1350 |
| 76815 |       | 76816 |         | 1.7/16-1.5/8  | 380    | 1350 |
| 77148 |       | 77149 |         | 1.1/2-1.5/8   | 380    | 1350 |

# BE SAFE...BE EFFICIENT



**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

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 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
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■ **LLAVE DE CARRACA / RATCHET SPANNER / CLÉ À CLIQUET / KNARRENSCHLÜSSEL / CHIAVE A CRICCO / CHAVE RAPIDA ABERTA COM ROQUETE / ТРЕЩЕТКА**



■ **MM**



| COD.  | MAT.  | COD.  | MAT.    |  | L (mm) |  |
|-------|-------|-------|---------|-----------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|
| 70870 |       | 70887 |         | 9                                                                                 |        | 160                                                                                 |
| 70871 |       | 70888 |         | 11                                                                                | 150    | 180                                                                                 |
| 70872 |       | 70889 |         | 13                                                                                |        |                                                                                     |
| 70873 |       | 70890 |         | 14                                                                                | 155    | 190                                                                                 |
| 70874 |       | 70891 |         | 17                                                                                |        | 200                                                                                 |
| 70875 |       | 70892 |         | 19                                                                                | 200    |                                                                                     |
| 70876 |       | 70893 |         | 22                                                                                |        | 210                                                                                 |
| 70877 |       | 70894 |         | 24                                                                                | 220    |                                                                                     |
| 70878 | Cu-Be | 70895 | Al-Bron | 27                                                                                | 240    | 220                                                                                 |
| 70879 |       | 70896 |         | 30                                                                                |        | 230                                                                                 |
| 70880 |       | 70897 |         | 32                                                                                |        |                                                                                     |
| 70881 |       | 70898 |         | 36                                                                                | 290    |                                                                                     |
| 70882 |       | 70899 |         | 41                                                                                | 295    | 260                                                                                 |
| 70883 |       | 70900 |         | 46                                                                                |        | 450                                                                                 |
| 70884 |       | 70901 |         | 50                                                                                | 360    | 550                                                                                 |
| 70885 |       | 70902 |         | 55                                                                                |        | 650                                                                                 |
| 70886 |       | 70903 |         | 60                                                                                | 440    | 850                                                                                 |

■ **INCH**



| COD.  | MAT.  | COD.  | MAT.    |  | L (mm) |  |
|-------|-------|-------|---------|-------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|
| 36296 |       | 36297 |         | 5/16                                                                                |        | 100                                                                                   |
| 70904 |       | 70920 |         | 3/8                                                                                 | 150    | 160                                                                                   |
| 36298 |       | 36299 |         | 7/16                                                                                |        | 100                                                                                   |
| 70905 |       | 70921 |         | 1/2                                                                                 |        |                                                                                       |
| 70906 |       | 70922 |         | 9/16                                                                                | 155    | 190                                                                                   |
| 70907 |       | 70923 |         | 11/16                                                                               |        | 200                                                                                   |
| 70908 |       | 70924 |         | 3/4                                                                                 | 200    |                                                                                       |
| 70909 |       | 70925 |         | 7/8                                                                                 |        | 210                                                                                   |
| 70910 |       | 70926 |         | 1                                                                                   | 220    |                                                                                       |
| 70911 | Cu-Be | 70927 | Al-Bron | 1.1/16                                                                              | 240    | 220                                                                                   |
| 70912 |       | 70928 |         | 1.3/16                                                                              |        | 230                                                                                   |
| 70913 |       | 70929 |         | 1.1/4                                                                               | 280    |                                                                                       |
| 70914 |       | 70930 |         | 1.7/16                                                                              |        |                                                                                       |
| 70915 |       | 70931 |         | 1.5/8                                                                               | 290    | 260                                                                                   |
| 70916 |       | 70932 |         | 1.13/16                                                                             |        | 450                                                                                   |
| 70917 |       | 70933 |         | 2                                                                                   | 360    | 550                                                                                   |
| 70918 |       | 70934 |         | 2.3/16                                                                              |        | 650                                                                                   |
| 70919 |       | 70935 |         | 2.3/8                                                                               | 440    | 850                                                                                   |

# 37

**ANTICHISPA  
NON-SPARKING  
ANTIDÉFLAGRANT  
FUNKENFREI  
ANTISCINTILLA  
ANTI-DEFLAGRANTE  
ИСКРБЕЗОПАСНЫЙ**



**LLAVE ESTRELLA ACODADA PARA ESTRUCTURA / OFFSET RING STRUCTURAL WRENCH / CLÉ POLYGALE CONTRE-COUDÉE POUR STRUCTURE MÉTALLIQUE / RINGSCHLÜSSEL GEKRÖPFT MIT DORN / CHIAVE POLIGONALE PER PONTEGGI / CHAVE LUNETÁ INCLINADA PARA ESTRUTURA / КЛЮЧ НАКИДНОЙ ОДНОСТОРОННИЙ ВИЛКООБРАЗНЫЙ СТРОИТЕЛЬНЫЙ**

■ MM



■ INCH



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | g    |
|-------|-------|-------|---------|-------|--------|------|
| 75424 |       | 75425 |         | 10    | 200    | 90   |
| 75426 |       | 75427 |         | 11    | 210    | 100  |
| 75428 |       | 75429 |         | 12    | 220    | 110  |
| 75430 |       | 75431 |         | 13    | 230    | 120  |
| 75432 |       | 75433 |         | 14    | 240    | 140  |
| 75434 |       | 75435 |         | 15    | 250    | 170  |
| 75436 |       | 75437 |         | 16    | 260    | 190  |
| 75438 |       | 75439 |         | 17    |        | 200  |
| 77436 |       | 77437 |         | 18    |        | 230  |
| 75440 |       | 75441 |         | 19    |        | 330  |
| 77438 |       | 77439 |         | 20    | 270    |      |
| 75442 |       | 75443 |         | 21    |        | 360  |
| 70248 |       | 71732 |         | 22    |        |      |
| 76523 |       | 76524 |         | 23    |        |      |
| 70249 |       | 71733 |         | 24    | 290    | 500  |
| 77440 |       | 77441 |         | 25    |        |      |
| 77442 |       | 77443 |         | 26    | 320    |      |
| 70250 |       | 71734 |         | 27    |        |      |
| 77444 | Cu-Be | 77445 | Al-Bron | 28    |        | 700  |
| 77446 |       | 77447 |         | 29    | 350    |      |
| 70251 |       | 71735 |         | 30    |        |      |
| 70252 |       | 71736 |         | 32    | 370    | 800  |
| 77448 |       | 77449 |         | 33    |        |      |
| 77450 |       | 77451 |         | 34    |        |      |
| 77452 |       | 77453 |         | 35    | 390    | 900  |
| 70253 |       | 71737 |         | 36    |        |      |
| 77454 |       | 77455 |         | 37    |        |      |
| 70254 |       | 71738 |         | 38    | 400    | 1000 |
| 70255 |       | 71739 |         | 41    | 410    |      |
| 77456 |       | 77457 |         | 42    |        |      |
| 70256 |       | 71740 |         | 44    | 420    | 1100 |
| 70257 |       | 71741 |         | 46    |        |      |
| 77458 |       | 77459 |         | 47    |        |      |
| 70258 |       | 71742 |         | 50    | 430    | 1300 |
| 75444 |       | 75445 |         | 55    | 550    | 2100 |
| 75446 |       | 75447 |         | 60    | 600    | 2500 |

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | g    |
|-------|-------|-------|---------|---------|--------|------|
| 77460 |       | 77461 |         | 11/16   | 310    | 190  |
| 77462 |       | 77463 |         | 3/4     |        |      |
| 77464 |       | 77465 |         | 25/32   | 330    | 240  |
| 77466 |       | 77467 |         | 13/16   |        |      |
| 76839 |       | 76840 |         | 7/8     | 350    | 300  |
| 76841 |       | 76842 |         | 15/16   |        |      |
| 77468 |       | 77469 |         | 31/32   | 370    | 380  |
| 77470 |       | 77471 |         | 1       |        |      |
| 77472 |       | 77473 |         | 1.1/16  | 400    | 480  |
| 77474 |       | 77475 |         | 1.1/8   |        |      |
| 77476 |       | 77477 |         | 1.3/16  |        | 650  |
| 74608 | Cu-Be | 74609 | Al-Bron | 1.1/4   | 430    |      |
| 77478 |       | 77479 |         | 1.5/16  |        | 700  |
| 77480 |       | 77481 |         | 1.3/8   |        |      |
| 74612 |       | 74613 |         | 1.7/16  | 460    | 900  |
| 74610 |       | 74611 |         | 1.1/2   |        |      |
| 77482 |       | 77483 |         | 1.9/16  |        | 1150 |
| 74614 |       | 74615 |         | 1.5/8   | 490    |      |
| 77484 |       | 77485 |         | 1.11/16 |        | 1200 |
| 77486 |       | 77487 |         | 1.3/4   |        |      |
| 74616 |       | 74617 |         | 1.13/16 | 500    | 1500 |
| 77488 |       | 77489 |         | 1.7/8   | 520    |      |
| 74618 |       | 74619 |         | 2       | 550    | 1900 |

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

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**LLAVE FIJA ACODADA PARA ESTRUCTURA / OFFSET OPEN END STRUCTURAL WRENCH / CLÉ À FOURCHE CONTRE-COUDÉE POUR STRUCTURE MÉTALLIQUE / MAULSCHLÜSSEL  
 GEKRÖPFT MIT DORN / CHIAVE FISSA PER PONTEGGI / CHAVE BOCA INCLINADA PARA ESTRUTURA / КЛЮЧ ГАЕЧНЫЙ ОДНОСТОРОННИЙ ВИЛКОБРАЗНЫЙ СТРОИТЕЛЬНЫЙ**

**MM**

| COD.  | MAT. | COD.  | MAT. | AF <sup>mm</sup> | L (mm) | g    |
|-------|------|-------|------|------------------|--------|------|
| 75450 |      | 75451 |      | 17               | 320    | 210  |
| 77490 |      | 77491 |      | 18               |        | 300  |
| 75452 |      | 75453 |      | 19               |        |      |
| 77492 |      | 77493 |      | 20               | 350    | 320  |
| 77494 |      | 77495 |      | 21               |        | 410  |
| 75454 |      | 75455 |      | 22               |        | 430  |
| 77496 |      | 77497 |      | 23               |        | 450  |
| 75456 |      | 75457 |      | 24               |        |      |
| 77498 |      | 77499 |      | 25               |        | 480  |
| 77500 |      | 77501 |      | 26               | 370    | 600  |
| 75458 |      | 75459 |      | 27               |        |      |
| 77502 |      | 77503 |      | 28               |        | 650  |
| 77504 |      | 77505 |      | 29               |        | 750  |
| 75460 |      | 75461 |      | 30               |        | 800  |
| 73940 |      | 73941 |      | 32               | 400    | 850  |
| 77506 |      | 77507 |      | 33               |        |      |
| 77508 |      | 77509 |      | 34               |        |      |
| 77510 |      | 77511 |      | 35               |        | 900  |
| 73942 |      | 73943 |      | 36               | 430    |      |
| 77512 |      | 77513 |      | 37               |        | 1200 |
| 77514 |      | 77515 |      | 38               |        |      |
| 73944 |      | 73945 |      | 41               | 470    | 1900 |
| 77516 |      | 77517 |      | 42               |        |      |
| 73946 |      | 73947 |      | 46               |        |      |
| 77518 |      | 77519 |      | 47               | 500    | 2800 |
| 73948 |      | 73949 |      | 50               | 550    | 3700 |



**INCH**

| COD.  | MAT. | COD.  | MAT. | AF <sup>inch</sup> | L (mm) | g    |
|-------|------|-------|------|--------------------|--------|------|
| 77520 |      | 77521 |      | 11/16              | 320    | 200  |
| 77522 |      | 77523 |      | 3/4                |        |      |
| 77524 |      | 77525 |      | 25/32              |        | 300  |
| 77526 |      | 77527 |      | 13/16              | 350    |      |
| 77528 |      | 77529 |      | 7/8                |        | 410  |
| 77530 |      | 77531 |      | 15/16              |        | 450  |
| 77532 |      | 77533 |      | 1.1/16             | 370    | 600  |
| 77534 |      | 77535 |      | 1.1/8              |        |      |
| 77536 |      | 77537 |      | 1.3/16             |        |      |
| 77538 |      | 77539 |      | 1.1/4              | 400    | 750  |
| 77540 |      | 77541 |      | 1.5/16             |        |      |
| 77542 |      | 77543 |      | 1.3/8              |        |      |
| 77544 |      | 77545 |      | 1.7/16             | 430    | 900  |
| 77546 |      | 77547 |      | 1.1/2              |        |      |
| 77548 |      | 77549 |      | 1.9/16             |        |      |
| 77550 |      | 77551 |      | 1.5/8              | 470    | 1200 |
| 77552 |      | 77553 |      | 1.11/16            |        |      |
| 77554 |      | 77555 |      | 1.3/4              |        |      |
| 77556 |      | 77557 |      | 1.13/16            | 500    | 1500 |
| 77558 |      | 77559 |      | 1.7/8              |        |      |
| 77560 |      | 77561 |      | 2                  | 530    | 1700 |



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**ANTICHISPA  
NON-SPARKING  
ANTIDÉFLAGRANT  
FUNKENFREI  
ANTISCINTILLA  
ANTI-DEFLAGRANTE  
ИСКРОБЕЗОПАСНЫЙ**



**LLAVE DE CARRACA PARA ESTRUCTURA / RATCHET STRUCTURAL WRENCH / CLÉ À CLIQUET POUR STRUCTURE / STAHLBAUKNARRE / CHIAVE A CRICCO PER COSTRUZIONE / CHAVE DE ROQUETE PARA ESTRUTURA / ГОЛОВКА С ТРЕЩЕТКОЙ**



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | g    |
|-------|-------|-------|---------|-------|--------|------|
| 79034 | Cu-Be | 79035 | Al-Bron | 32    | 320    | 1000 |

**LLAVE DE CARRACA PARA ESTRUCTURA METÁLICA / PODGING WRENCH / CLIQUET RÉVERSIBLE / STAHLBAUKNARRE / CHIAVE A CRICCO PER COSTRUZIONE / CHAVE DE ROQUETE PARA ESTRUTURA METALICA / ГОЛОВКА С ТРЕЩЕТКОЙ**



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | g    |
|-------|-------|-------|---------|-------|--------|------|
| 36736 | Cu-Be | 36747 | Al-Bron | 10-13 | 210    | 350  |
| 36737 |       | 36748 |         | 12-14 |        |      |
| 36738 |       | 36749 |         | 13-17 | 250    | 410  |
| 36739 |       | 36750 |         | 17-19 | 290    | 450  |
| 36740 |       | 36751 |         | 19-21 | 310    | 580  |
| 36072 |       | 36073 |         | 19-22 |        |      |
| 36741 |       | 36752 |         | 19-24 | 330    | 620  |
| 36742 |       | 36753 |         | 22-24 |        |      |
| 35792 |       | 35793 |         | 24-27 | 350    | 730  |
| 36743 |       | 36754 |         | 24-30 | 370    | 900  |
| 36744 |       | 36755 |         | 27-32 |        |      |
| 35794 |       | 35795 |         | 30-32 | 390    | 1150 |
| 36745 |       | 36756 |         | 32-36 |        |      |
| 36746 |       | 36757 |         | 36-41 |        |      |

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

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**LLAVE PARA RACORES / FLARE NUT / CLÉ POLYGONALE À TUYAUTER / OFFENER DOPPELRINGSCHÜSSEL / CHIAVE PER RACCORDI / LUNETAS ABERTAS COM BATENTE / КЛЮЧ ПРОКАЧНОЙ РАЗРЕЗНОЙ**

MM



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | g   |
|-------|-------|-------|---------|-------|--------|-----|
| 77570 | Cu-Be | 77571 | Al-Bron | 6-7   | 95     | 15  |
| 77572 |       | 77573 |         | 8-10  | 115    | 30  |
| 77574 |       | 77575 |         | 9-11  | 125    | 35  |
| 77576 |       | 77577 |         | 10-12 | 140    | 50  |
| 77578 |       | 77579 |         | 12-14 | 145    | 65  |
| 77580 |       | 77581 |         | 14-15 | 155    | 85  |
| 77582 |       | 77583 |         | 14-17 | 165    | 95  |
| 77584 |       | 77585 |         | 16-18 | 170    | 120 |
| 77586 |       | 77587 |         | 17-19 | 185    | 125 |
| 77588 |       | 77589 |         | 19-22 | 200    | 170 |
| 77590 |       | 77591 |         | 22-24 | 220    | 220 |
| 77592 |       | 77593 |         | 24-27 | 255    | 300 |
| 77594 |       | 77595 |         | 24-30 | 270    |     |
| 77596 |       | 77597 |         | 25-28 | 265    | 360 |
| 77598 |       | 77599 |         | 27-30 | 280    | 410 |
| 77600 |       | 77601 |         | 30-32 | 295    | 480 |
| 77602 |       | 77603 |         | 30-34 | 310    | 550 |
| 77604 |       | 77605 |         | 30-36 | 330    | 650 |
| 77606 |       | 77607 |         | 34-36 | 345    | 700 |
| 77608 |       | 77609 |         | 36-41 | 365    | 900 |

INCH



| COD.  | MAT.  | COD.  | MAT.    | AF inch  | L (mm) | g   |
|-------|-------|-------|---------|----------|--------|-----|
| 72723 | Cu-Be | 72724 | Al-Bron | 3/8-7/16 | 135    | 50  |
| 72725 |       | 72726 |         | 7/16-1/2 | 150    | 100 |
| 72727 |       | 72728 |         | 1/2-9/16 | 155    | 150 |
| 72729 |       | 72730 |         | 9/16-5/8 | 170    | 250 |
| 72731 |       | 72732 |         | 5/8-3/4  | 195    | 300 |
| 72733 |       | 72734 |         | 3/4-7/8  | 220    | 350 |
| 72735 |       | 72736 |         | 7/8-1    | 235    | 400 |
| 72737 |       | 72738 |         | 1-1.1/8  | 265    | 500 |

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**ANTICHISPA  
NON-SPARKING  
ANTIDÉFLAGRANT  
FUNKENFREI  
ANTISCINTILLA  
ANTI-DEFLAGRANTE  
ИСКРОБЕЗОПАСНЫЙ**



■ **FIJA DE GOLPE / SLOGGING OPEN WRENCH / À FOURCHE À FRAPPER / SCHLAG MAULSCHLÜSSEL / FISSE AD IMPULSO / BOCA DE IMPACTO / УДАРНЫЙ РОЖКОВЫЙ КЛЮЧ**

■ **MM**



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Kg  |
|-------|-------|-------|---------|-------|--------|-----|
| 70280 |       | 71013 |         | 14    |        |     |
| 70281 |       | 71014 |         | 17    | 130    | 0,1 |
| 70282 |       | 71015 |         | 19    |        |     |
| 36466 |       | 36467 |         | 20    |        |     |
| 70283 |       | 71016 |         | 22    |        | 0,2 |
| 70284 |       | 71017 |         | 24    | 150    |     |
| 74875 |       | 74876 |         | 25    |        | 0,3 |
| 36468 |       | 36469 |         | 26    |        | 0,4 |
| 70285 |       | 71018 |         | 27    | 170    | 0,3 |
| 74877 |       | 74878 |         | 28    |        |     |
| 77278 |       | 77279 |         | 29    |        |     |
| 70286 |       | 71019 |         | 30    | 190    | 0,4 |
| 70287 |       | 71020 |         | 32    |        |     |
| 77280 |       | 77281 |         | 33    |        | 0,5 |
| 74847 |       | 74848 |         | 34    |        | 0,6 |
| 77282 |       | 77283 |         | 35    |        |     |
| 70288 |       | 71021 |         | 36    | 210    | 0,7 |
| 77284 |       | 77285 |         | 37    |        |     |
| 74341 |       | 74342 |         | 38    |        | 0,8 |
| 70289 |       | 71022 |         | 41    |        |     |
| 77286 |       | 77287 |         | 42    | 225    | 0,9 |
| 79089 |       | 77778 |         | 45    |        |     |
| 70290 |       | 71023 |         | 46    | 245    | 1,1 |
| 77288 |       | 77289 |         | 47    |        | 1,2 |
| 70291 |       | 71024 |         | 50    | 270    |     |
| 77290 | Cu-Be | 77291 | Al-Bron | 52    |        | 1,4 |
| 77292 |       | 77293 |         | 54    |        |     |
| 70292 |       | 71025 |         | 55    | 300    | 1,5 |
| 77294 |       | 77295 |         | 56    |        | 1,8 |
| 77296 |       | 77297 |         | 58    |        |     |
| 70293 |       | 71026 |         | 60    | 310    | 2   |
| 77298 |       | 77299 |         | 63    |        | 2,4 |
| 70294 |       | 71027 |         | 65    | 340    |     |
| 77300 |       | 77301 |         | 67    |        | 2,5 |
| 70295 |       | 71028 |         | 70    |        |     |
| 77302 |       | 77303 |         | 71    | 365    | 3   |
| 70296 |       | 71029 |         | 75    | 375    | 3,5 |
| 77304 |       | 77305 |         | 77    |        |     |
| 71007 |       | 71030 |         | 80    | 395    | 4   |
| 77306 |       | 77307 |         | 82    |        |     |
| 71008 |       | 71031 |         | 85    | 405    | 5   |
| 77308 |       | 77309 |         | 88    | 438    |     |
| 71009 |       | 71032 |         | 90    |        |     |
| 77310 |       | 77311 |         | 94    | 445    | 6,5 |
| 71010 |       | 71033 |         | 95    |        |     |
| 71011 |       | 71034 |         | 100   | 480    | 8,5 |
| 71012 |       | 71035 |         | 105   | 500    | 10  |
| 74849 |       | 74850 |         | 110   | 510    |     |
| 74880 |       | 74881 |         | 115   | 520    |     |
| 77312 |       | 77313 |         | 120   | 530    | 12  |
| 74761 |       | 74762 |         | 125   | 545    |     |

| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Kg |
|-------|-------|-------|---------|-------|--------|----|
| 77314 |       | 77315 |         | 130   | 560    |    |
| 77316 |       | 77317 |         | 135   | 575    | 18 |
| 77318 |       | 77319 |         | 140   | 585    |    |
| 77320 |       | 77321 |         | 145   | 630    |    |
| 77322 |       | 77323 |         | 150   | 640    | 24 |
| 77324 | Cu-Be | 77325 | Al-Bron | 155   | 650    |    |
| 36470 |       | 36471 |         | 160   | 650    | 37 |
| 36472 |       | 36473 |         | 165   |        |    |
| 36474 |       | 36475 |         | 170   |        | 43 |
| 36476 |       | 36477 |         | 175   | 700    |    |
| 36478 |       | 36479 |         | 180   |        | 44 |

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

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## INCH



| COD.  | MAT.  | COD.  | MAT.    | AF <sup>inch</sup> | L (mm) | Kg  |
|-------|-------|-------|---------|--------------------|--------|-----|
| 71036 |       | 71055 |         | 9/16               |        | 0,2 |
| 72105 |       | 72113 |         | 5/8                | 130    |     |
| 71037 |       | 71056 |         | 11/16              |        | 0,3 |
| 71038 |       | 71057 |         | 3/4                |        |     |
| 71039 |       | 71058 |         | 7/8                |        |     |
| 71040 |       | 71059 |         | 15/16              | 150    | 0,4 |
| 72106 |       | 72114 |         | 1                  |        | 0,6 |
| 71041 |       | 71060 |         | 1.1/16             |        |     |
| 72107 |       | 72115 |         | 1.1/8              | 170    |     |
| 74851 |       | 74852 |         | 1.3/16             |        |     |
| 71042 |       | 71061 |         | 1.1/4              | 190    | 0,7 |
| 77326 |       | 77327 |         | 1.5/16             |        |     |
| 72108 |       | 72116 |         | 1.3/8              |        |     |
| 71043 |       | 71062 |         | 1.7/16             | 210    |     |
| 72109 |       | 72117 |         | 1.1/2              |        |     |
| 77328 |       | 77329 |         | 1.9/16             |        |     |
| 71044 |       | 71063 |         | 1.5/8              | 225    |     |
| 77330 |       | 77331 |         | 1.11/16            |        | 1,6 |
| 77332 |       | 77333 |         | 1.3/4              |        |     |
| 71045 |       | 71064 |         | 1.13/16            | 245    |     |
| 72110 |       | 72118 |         | 1.7/8              |        | 1,8 |
| 71046 |       | 71065 |         | 2                  |        |     |
| 77334 |       | 77335 |         | 2.1/16             | 270    | 2,1 |
| 77336 |       | 77337 |         | 2.1/8              |        |     |
| 71047 |       | 71066 |         | 2.3/16             | 300    | 2,6 |
| 72111 |       | 72119 |         | 2.1/4              |        | 3   |
| 77338 | Cu-Be | 77339 | Al-Bron | 2.5/16             |        |     |
| 71048 |       | 71067 |         | 2.3/8              | 310    | 4   |
| 77340 |       | 77341 |         | 2.7/16             |        |     |
| 72112 |       | 72120 |         | 2.1/2              |        |     |
| 71049 |       | 71068 |         | 2.9/16             |        |     |
| 77342 |       | 77343 |         | 2.5/8              | 340    |     |
| 74853 |       | 74854 |         | 2.3/4              | 365    | 4,5 |
| 77344 |       | 77345 |         | 2.13/16            |        |     |
| 77346 |       | 77347 |         | 2.15/16            | 375    |     |
| 71050 |       | 71069 |         | 3                  |        | 7   |
| 71051 |       | 71070 |         | 3.1/8              |        |     |
| 74855 |       | 74856 |         | 3.3/16             | 395    |     |
| 77348 |       | 77349 |         | 3.1/4              |        | 8,5 |
| 74857 |       | 74858 |         | 3.3/8              | 405    |     |
| 77350 |       | 77351 |         | 3.1/2              |        |     |
| 71052 |       | 71071 |         | 3.9/16             | 438    |     |
| 77352 |       | 77353 |         | 3.5/8              |        | 10  |
| 74859 |       | 74860 |         | 3.3/4              | 445    |     |
| 77354 |       | 77355 |         | 3.7/8              |        | 11  |
| 71053 |       | 71072 |         | 4                  | 480    |     |
| 77356 |       | 77357 |         | 4.1/8              | 500    |     |
| 71054 |       | 71073 |         | 4.5/16             | 510    |     |
| 77358 |       | 77359 |         | 4.9/16             | 520    | 13  |
| 77360 |       | 77361 |         | 4.11/16            | 530    |     |
| 77362 |       | 77363 |         | 4.15/16            | 560    | 16  |
| 77364 |       | 77365 |         | 5.3/8              | 575    |     |
| 77366 |       | 77367 |         | 6                  | 640    | 23  |

Cu-Be Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Аллюминий Бронза



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FUNKENFREI  
ANTISCINTILLA  
ANTI-DEFLAGRANTE  
ИСКРОБЕЗОПАСНЫЙ**



■ ESTRELLA DE GOLPE / SLOGGING RING / POLYGONALE À FRAPPER / SCHLAG RINGSCHLÜSSEL / POLIGONALE AD IMPULSO / LUNETAS DE IMPACTO / УДАРНЫЙ КЛЮЧ ЗВЕЗДОЧКА

■ MM



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Kg  | COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Kg   |
|-------|-------|-------|---------|-------|--------|-----|-------|-------|-------|---------|-------|--------|------|
| 70297 |       | 71080 |         | 17    |        |     | 72656 |       | 72702 |         | 68    |        |      |
| 35652 |       | 35653 |         | 18    | 150    | 0,1 | 72657 |       | 72703 |         | 69    |        |      |
| 70298 |       | 71081 |         | 19    |        |     | 70312 |       | 71095 |         | 70    | 320    | 2,5  |
| 72231 |       | 72230 |         | 20    |        |     | 72616 |       | 72626 |         | 71    |        |      |
| 77150 |       | 77151 |         | 21    |        |     | 72658 |       | 72704 |         | 72    |        |      |
| 70299 |       | 71082 |         | 22    | 170    | 0,2 | 72659 |       | 72705 |         | 73    |        |      |
| 77564 |       | 77565 |         | 23    |        |     | 72660 |       | 72706 |         | 74    |        | 2,7  |
| 70300 |       | 71083 |         | 24    |        |     | 70313 |       | 71096 |         | 75    | 325    |      |
| 72631 |       | 72677 |         | 25    |        |     | 72662 |       | 72708 |         | 76    |        |      |
| 71906 |       | 72951 |         | 26    | 180    | 0,3 | 72617 |       | 72627 |         | 77    |        |      |
| 70301 |       | 71084 |         | 27    |        |     | 72663 |       | 72709 |         | 78    |        |      |
| 72633 |       | 72679 |         | 28    |        |     | 72664 |       | 72710 |         | 79    |        | 3    |
| 72634 |       | 72680 |         | 29    |        |     | 70314 |       | 71097 |         | 80    | 345    |      |
| 70302 |       | 71085 |         | 30    |        |     | 72665 |       | 72711 |         | 81    |        |      |
| 72635 |       | 72681 |         | 31    | 190    | 0,4 | 72666 |       | 72712 |         | 82    |        |      |
| 70303 |       | 71086 |         | 32    |        |     | 72667 |       | 72713 |         | 83    |        |      |
| 72609 |       | 72619 |         | 33    |        |     | 72668 |       | 72714 |         | 84    |        | 3,3  |
| 73326 |       | 73331 |         | 34    |        |     | 70315 |       | 71098 |         | 85    | 350    |      |
| 72610 |       | 72620 |         | 35    | 200    | 0,5 | 72670 |       | 72716 |         | 86    |        |      |
| 70304 |       | 71087 |         | 36    |        |     | 72671 |       | 72717 |         | 87    |        |      |
| 72611 |       | 72621 |         | 37    |        |     | 72672 |       | 73342 |         | 88    |        |      |
| 71834 |       | 71835 |         | 38    |        |     | 72673 |       | 72719 |         | 89    |        | 3,8  |
| 72636 |       | 72682 |         | 39    |        |     | 70316 | Cu-Be | 71099 | Al-Bron | 90    | 375    |      |
| 73327 |       | 73332 |         | 40    | 225    | 0,8 | 72675 |       | 72721 |         | 92    |        |      |
| 70305 |       | 71088 |         | 41    |        |     | 72618 |       | 72628 |         | 94    |        | 4,5  |
| 73328 | Cu-Be | 73333 | Al-Bron | 42    |        |     | 70317 |       | 71100 |         | 95    | 395    |      |
| 72638 |       | 72684 |         | 43    |        |     | 72661 |       | 72669 |         | 97    | 445    |      |
| 73329 |       | 73334 |         | 44    |        |     | 73345 |       | 73344 |         | 98    |        | 5,5  |
| 72640 |       | 72686 |         | 45    | 235    | 0,9 | 70318 |       | 71101 |         | 100   | 405    |      |
| 70306 |       | 71089 |         | 46    |        |     | 71074 |       | 71102 |         | 105   | 410    | 6,5  |
| 72229 |       | 72228 |         | 47    |        |     | 72645 |       | 72646 |         | 108   |        | 7    |
| 73330 |       | 73335 |         | 48    |        |     | 71075 |       | 71103 |         | 110   | 440    | 7,5  |
| 72642 |       | 72688 |         | 49    | 245    | 1,1 | 71076 |       | 71104 |         | 115   |        | 9    |
| 70307 |       | 71090 |         | 50    |        |     | 71077 |       | 71105 |         | 120   | 480    | 10   |
| 72643 |       | 72689 |         | 51    |        |     | 71078 |       | 71106 |         | 125   | 490    | 10,8 |
| 70308 |       | 71091 |         | 52    |        |     | 71079 |       | 71107 |         | 130   | 505    | 11,3 |
| 72644 |       | 72690 |         | 53    |        |     | 72084 |       | 72089 |         | 135   | 530    | 12,3 |
| 72613 |       | 72623 |         | 54    | 265    | 1,4 | 72085 |       | 72090 |         | 140   | 550    | 13,2 |
| 70309 |       | 71092 |         | 55    |        |     | 72086 |       | 72091 |         | 145   |        | 13,6 |
| 73470 |       | 73394 |         | 56    |        |     | 72087 |       | 72092 |         | 150   | 565    | 14,1 |
| 72647 |       | 72693 |         | 57    |        |     | 72088 |       | 72093 |         | 155   |        |      |
| 73471 |       | 73395 |         | 58    |        |     | 72212 |       | 72210 |         | 160   | 595    | 16   |
| 72648 |       | 72694 |         | 59    |        |     | 36482 |       | 36483 |         | 165   |        | 26   |
| 70310 |       | 71093 |         | 60    | 275    | 1,7 | 36484 |       | 36485 |         | 170   | 650    | 25   |
| 72650 |       | 72696 |         | 61    |        |     | 36486 |       | 36487 |         | 175   |        | 28   |
| 72651 |       | 72697 |         | 62    |        |     | 36488 |       | 36489 |         | 180   |        | 27   |
| 72652 |       | 72698 |         | 63    |        |     |       |       |       |         |       |        |      |
| 72653 |       | 72699 |         | 64    | 290    | 2   |       |       |       |         |       |        |      |
| 70311 |       | 71094 |         | 65    |        |     |       |       |       |         |       |        |      |
| 72655 |       | 73340 |         | 66    |        |     |       |       |       |         |       |        |      |
| 72615 |       | 72625 |         | 67    |        | 2,5 |       |       |       |         |       |        |      |

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

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**EGAMaster**  
ART IN INNOVATION

1069

## INCH



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Kg  |
|-------|-------|-------|---------|---------|--------|-----|
| 74763 |       | 74764 |         | 1/2     | 125    |     |
| 72121 |       | 72127 |         | 5/8     |        | 0,1 |
| 71108 |       | 71133 |         | 11/16   | 145    |     |
| 71109 |       | 71134 |         | 3/4     |        |     |
| 72674 |       | 72676 |         | 13/16   |        |     |
| 71110 |       | 71135 |         | 7/8     | 170    | 0,2 |
| 75400 |       | 72303 |         | 15/16   |        |     |
| 71111 |       | 71136 |         | 1       | 180    | 0,3 |
| 71112 |       | 71137 |         | 1.1/16  |        |     |
| 72122 |       | 72128 |         | 1.1/8   | 190    | 0,4 |
| 71113 |       | 71138 |         | 1.3/16  |        |     |
| 71114 |       | 71139 |         | 1.1/4   |        |     |
| 75397 |       | 71789 |         | 1.5/16  |        |     |
| 72123 |       | 72129 |         | 1.3/8   | 200    | 0,5 |
| 71115 |       | 71140 |         | 1.13/32 |        |     |
| 72301 |       | 71791 |         | 1.7/16  |        |     |
| 72124 |       | 72130 |         | 1.1/2   |        |     |
| 75398 |       | 71793 |         | 1.9/16  | 225    | 0,8 |
| 71116 |       | 71141 |         | 1.5/8   |        |     |
| 75406 |       | 71794 |         | 1.11/16 |        |     |
| 72125 |       | 72131 |         | 1.3/4   | 235    | 0,9 |
| 71117 |       | 71142 |         | 1.13/16 |        |     |
| 72126 |       | 72132 |         | 1.7/8   |        |     |
| 75399 |       | 71797 |         | 1.15/16 | 245    | 1,2 |
| 71118 |       | 71143 |         | 2       |        |     |
| 75401 | Cu-Be | 71798 | Al-Bron | 2.1/16  |        |     |
| 75402 |       | 71799 |         | 2.1/8   | 265    | 1,4 |
| 72954 |       | 71800 |         | 2.3/16  |        |     |
| 75403 |       | 75404 |         | 2.13/64 |        |     |
| 71119 |       | 71144 |         | 2.1/4   |        |     |
| 71120 |       | 71145 |         | 2.5/16  |        | 1,7 |
| 71121 |       | 71146 |         | 2.3/8   | 275    |     |
| 75405 |       | 71801 |         | 2.7/16  |        |     |
| 71122 |       | 71147 |         | 2.1/2   | 290    | 2   |
| 71123 |       | 71148 |         | 2.9/16  |        |     |
| 71124 |       | 71149 |         | 2.5/8   |        |     |
| 71125 |       | 71150 |         | 2.3/4   | 320    | 2,5 |
| 77258 |       | 77259 |         | 2.13/16 |        |     |
| 71126 |       | 71151 |         | 2.15/16 |        | 2,7 |
| 71127 |       | 71152 |         | 3       | 325    |     |
| 71128 |       | 71153 |         | 3.1/16  |        | 3   |
| 71129 |       | 71154 |         | 3.1/8   | 345    |     |
| 77260 |       | 77261 |         | 3.1/4   |        | 3,3 |
| 71130 |       | 71155 |         | 3.3/8   | 350    |     |
| 76850 |       | 76851 |         | 3.1/2   |        | 3,8 |
| 71131 |       | 71156 |         | 3.9/16  | 375    |     |
| 76849 |       | 76852 |         | 3.5/8   |        | 4   |
| 71132 |       | 71157 |         | 3.3/4   | 395    |     |
| 74335 |       | 75407 |         | 3.7/8   |        |     |
| 75408 |       | 75409 |         | 3.15/16 | 405    | 5,5 |
| 77262 |       | 77263 |         | 4       |        |     |
| 75410 |       | 75411 |         | 4.1/8   | 410    | 6,5 |

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Kg   |
|-------|-------|-------|---------|---------|--------|------|
| 74331 |       | 74332 |         | 4.1/4   | 410    | 8,5  |
| 77264 |       | 77265 |         | 4.5/16  |        |      |
| 75412 |       | 75413 |         | 4.1/2   | 435    | 9    |
| 77266 |       | 77267 |         | 4.9/16  |        |      |
| 75414 |       | 75415 |         | 4.5/8   |        |      |
| 75416 | Cu-Be | 75417 | Al-Bron | 4.11/16 | 475    | 10   |
| 74333 |       | 74334 |         | 4.7/8   |        |      |
| 77268 |       | 77269 |         | 4.15/16 | 490    | 10,8 |
| 77270 |       | 77271 |         | 5.1/8   | 505    | 11,3 |
| 77272 |       | 77273 |         | 5.3/8   | 530    | 12,2 |
| 77274 |       | 77275 |         | 5.11/16 | 565    | 13,6 |
| 77276 |       | 77277 |         | 6       | 565    | 14,1 |

**ESTRELLA DE GOLPE ACODADA / OFFSET SLOGGING RING WRENCH / CLÉ POLYGONALE À FRAPPER CONTRE-COUDÉE / SCHLAG-RINGSCHLÜSSEL, GEKRÖPFT / POLIGONALE AD IMPULSO A GOMITO / CHAVE LUNETA INCLINADA DE PANCADA / УДАРНЫЙ ИЗОГНУТЫЙ РОЖКОВЫЙ КЛЮЧ**

MM



INCH



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | g     |
|-------|-------|-------|---------|-------|--------|-------|
| 75465 |       | 75466 |         | 22    |        |       |
| 75467 |       | 75468 |         | 24    | 220    | 500   |
| 74122 |       | 74123 |         | 27    | 240    | 650   |
| 74124 |       | 74125 |         | 30    |        |       |
| 74126 |       | 74127 |         | 32    | 270    | 900   |
| 36395 |       | 36411 |         | 34    |        | 1050  |
| 74128 |       | 74129 |         | 36    | 280    | 1000  |
| 72992 |       | 72993 |         | 38    | 305    |       |
| 36396 |       | 36412 |         | 40    |        | 1300  |
| 74130 |       | 74131 |         | 41    | 300    |       |
| 36397 |       | 36413 |         | 42    |        |       |
| 36398 |       | 36414 |         | 43    |        | 1850  |
| 36399 |       | 36415 |         | 44    |        |       |
| 36400 |       | 36416 |         | 45    | 310    |       |
| 74132 |       | 74133 |         | 46    |        | 1900  |
| 36401 |       | 36417 |         | 47    |        |       |
| 36402 |       | 36418 |         | 48    |        | 2000  |
| 74134 |       | 74135 |         | 50    |        |       |
| 36403 |       | 36419 |         | 54    | 320    | 2200  |
| 73593 |       | 73594 |         | 55    |        |       |
| 36404 |       | 36420 |         | 56    |        | 2400  |
| 36405 |       | 36421 |         | 57    |        |       |
| 36406 |       | 36422 |         | 58    |        |       |
| 36407 | Cu-Be | 36423 | Al-Bron | 59    | 350    | 2900  |
| 73595 |       | 73596 |         | 60    |        |       |
| 73597 |       | 73598 |         | 65    | 380    | 3200  |
| 36408 |       | 36424 |         | 67    | 400    | 4050  |
| 73599 |       | 73600 |         | 70    |        |       |
| 73601 |       | 73602 |         | 75    | 420    | 4200  |
| 36409 |       | 36425 |         | 76    |        |       |
| 36410 |       | 36426 |         | 78    | 430    | 5500  |
| 73603 |       | 73604 |         | 80    |        |       |
| 73605 |       | 73606 |         | 85    |        |       |
| 73607 |       | 73608 |         | 90    |        | 6200  |
| 73609 |       | 73610 |         | 95    | 440    |       |
| 73611 |       | 73612 |         | 100   |        | 7000  |
| 36492 |       | 36493 |         | 105   | 460    | 8400  |
| 73613 |       | 73614 |         | 110   | 440    |       |
| 36494 |       | 36495 |         | 115   | 470    | 8900  |
| 73615 |       | 73616 |         | 120   | 440    |       |
| 36496 |       | 36497 |         | 125   | 490    | 11550 |
| 36498 |       | 36499 |         | 130   |        |       |
| 36500 |       | 36501 |         | 135   | 520    | 13200 |
| 36502 |       | 36503 |         | 140   |        |       |
| 36504 |       | 36505 |         | 145   |        |       |
| 36506 |       | 36507 |         | 150   | 570    | 15400 |
| 36508 |       | 36509 |         | 155   | 600    | 17600 |

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | g    |
|-------|-------|-------|---------|---------|--------|------|
| 73653 |       | 73654 |         | 1.1/16  |        |      |
| 76823 |       | 76824 |         | 1.3/16  | 240    | 650  |
| 73655 |       | 73656 |         | 1.1/4   |        |      |
| 73657 |       | 73658 |         | 1.7/16  | 270    | 900  |
| 73659 |       | 73660 |         | 1.1/2   | 280    | 1000 |
| 73661 |       | 73662 |         | 1.5/8   | 300    | 1300 |
| 73663 |       | 73664 |         | 1.3/4   |        |      |
| 76825 |       | 76826 |         | 1.13/16 | 310    | 1700 |
| 73665 |       | 73666 |         | 1.7/8   |        |      |
| 73667 | Cu-Be | 73668 | Al-Bron | 2       |        |      |
| 76827 |       | 76828 |         | 2.3/16  | 320    | 2000 |
| 73669 |       | 73670 |         | 2.1/4   |        |      |
| 73671 |       | 73672 |         | 2.3/8   |        |      |
| 73673 |       | 73674 |         | 2.1/2   | 380    | 2700 |
| 76829 |       | 76830 |         | 2.9/16  |        |      |
| 73675 |       | 73676 |         | 2.5/8   |        |      |
| 73677 |       | 73678 |         | 2.3/4   | 400    | 3200 |
| 73679 |       | 73680 |         | 2.7/8   | 420    | 4200 |
| 73681 |       | 73682 |         | 3       |        |      |

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

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**ESTRELLA DE GOLPE CURVA / CURVED SLOGGING RING WRENCH / CLÉ POLYGONALE À FRAPPER COURBEE / ZUGSCHLAGRINGSCHLÜSSEL, GEBOGEN / POLIGONALE AD IMPULSO A CURVA / CHAVE LUNETA CURVA DE PANCADA / УДАРНЫЙ ИЗОГНУТЫЙ РОЖКОВЫЙ КЛЮЧ**

MM

| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | g    |
|-------|-------|-------|---------|-------|--------|------|
| 74137 |       | 74138 |         | 24    | 160    | 300  |
| 74139 |       | 74140 |         | 27    | 170    | 420  |
| 74141 |       | 74142 |         | 30    | 180    | 500  |
| 74143 |       | 74144 |         | 32    | 190    | 520  |
| 74145 |       | 74146 |         | 36    | 210    | 800  |
| 74147 | Cu-Be | 74148 | Al-Bron | 41    | 220    | 1000 |
| 74149 |       | 74150 |         | 46    | 240    | 1200 |
| 74151 |       | 74152 |         | 50    | 250    | 1500 |
| 74153 |       | 74154 |         | 55    | 270    | 1800 |
| 74155 |       | 74156 |         | 60    | 280    | 2200 |
| 74157 |       | 74158 |         | 65    | 300    | 2400 |
| 74159 |       | 74160 |         | 70    | 310    | 2800 |



**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

ESTRELLA DE UNA BOCA / SINGLE END RING WRENCH / CLÉ POLYGONALE / EINRINGSCHLÜSSEL / POLIGONALE UNA BOCCA / CHAVE LUNETA DE UMA BOCA / КЛЮЧ ОДИНАРНАЯ ЗВЕЗДОЧКА

MM



| COD.  | MAT.  | COD.  | MAT.    | AF <sup>mm</sup> | L (mm) | g    |
|-------|-------|-------|---------|------------------|--------|------|
| 73993 |       | 73994 |         | 8                | 100    | 25   |
| 73995 |       | 73996 |         | 10               | 110    | 35   |
| 73997 |       | 73998 |         | 12               | 120    | 50   |
| 76021 |       | 76022 |         | 13               |        |      |
| 73999 |       | 74000 |         | 14               | 130    | 75   |
| 77152 |       | 77153 |         | 15               | 140    | 85   |
| 74001 |       | 74002 |         | 16               | 145    | 120  |
| 74003 |       | 74004 |         | 17               | 150    | 130  |
| 74005 |       | 74006 |         | 18               | 160    | 135  |
| 74007 |       | 74008 |         | 19               | 170    | 170  |
| 74009 |       | 74010 |         | 20               | 175    | 180  |
| 74011 |       | 74012 |         | 21               | 185    | 185  |
| 74013 |       | 74014 |         | 22               | 190    | 195  |
| 76718 |       | 76719 |         | 23               |        | 210  |
| 74015 |       | 74016 |         | 24               | 210    |      |
| 76720 |       | 76721 |         | 25               | 215    | 250  |
| 76722 |       | 76723 |         | 26               |        |      |
| 74017 |       | 74018 |         | 27               | 230    |      |
| 76724 |       | 76725 |         | 28               |        | 340  |
| 76726 |       | 76727 |         | 29               |        |      |
| 74019 |       | 74020 |         | 30               | 250    | 450  |
| 74021 |       | 74022 |         | 32               |        |      |
| 76728 |       | 76729 |         | 33               | 270    | 500  |
| 74023 |       | 74024 |         | 34               | 280    |      |
| 77154 |       | 77155 |         | 35               |        | 650  |
| 74025 |       | 74026 |         | 36               | 290    |      |
| 76088 |       | 76089 |         | 37               |        | 750  |
| 74027 | Cu-Be | 74028 | Al-Bron | 38               | 300    | 850  |
| 74029 |       | 74030 |         | 41               | 310    |      |
| 77158 |       | 77159 |         | 42               |        | 950  |
| 74031 |       | 74032 |         | 45               | 320    |      |
| 74033 |       | 74034 |         | 46               | 330    |      |
| 77160 |       | 77161 |         | 47               |        | 1200 |
| 74035 |       | 74036 |         | 48               | 340    |      |
| 74037 |       | 74038 |         | 50               | 350    |      |
| 77162 |       | 77163 |         | 52               |        | 1500 |
| 77164 |       | 77165 |         | 54               |        |      |
| 74039 |       | 74040 |         | 55               | 370    | 1700 |
| 74041 |       | 74042 |         | 56               |        |      |
| 77166 |       | 77167 |         | 58               |        | 1750 |
| 74043 |       | 74044 |         | 60               | 390    |      |
| 77168 |       | 77169 |         | 63               |        | 1900 |
| 74045 |       | 74046 |         | 65               | 410    |      |
| 77170 |       | 77171 |         | 67               |        | 2200 |
| 74047 |       | 74048 |         | 70               | 430    |      |
| 77172 |       | 77173 |         | 71               |        | 2600 |
| 74049 |       | 74050 |         | 75               | 450    |      |
| 77174 |       | 77175 |         | 77               |        | 3200 |
| 74051 |       | 74052 |         | 80               | 470    |      |
| 77176 |       | 77177 |         | 82               |        | 4000 |
| 74053 |       | 74054 |         | 85               | 490    |      |
| 77178 |       | 77179 |         | 88               | 600    | 4450 |
| 77180 |       | 77181 |         | 90               |        |      |
| 77182 |       | 77183 |         | 94               | 650    | 5500 |
| 77184 |       | 77185 |         | 95               |        |      |



Cu-Be Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

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## ■ INCH

| COD.  | MAT.  | COD.  | MAT.    |  | L (mm) |  |
|-------|-------|-------|---------|-----------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------|
| 77186 |       | 77187 |         | 1/2                                                                               |        |                                                                                    |
| 77188 |       | 77189 |         | 9/16                                                                              | 130    | 75                                                                                 |
| 77190 |       | 77191 |         | 19/32                                                                             | 140    | 85                                                                                 |
| 77192 |       | 77193 |         | 5/8                                                                               | 145    |                                                                                    |
| 77194 |       | 77195 |         | 11/16                                                                             | 155    | 115                                                                                |
| 77196 |       | 77197 |         | 3/4                                                                               |        |                                                                                    |
| 77198 |       | 77199 |         | 25/32                                                                             | 170    | 125                                                                                |
| 77200 |       | 77201 |         | 13/16                                                                             |        |                                                                                    |
| 77202 |       | 77203 |         | 7/8                                                                               | 190    | 170                                                                                |
| 77204 |       | 77205 |         | 15/16                                                                             |        |                                                                                    |
| 77206 |       | 77207 |         | 31/32                                                                             | 215    | 210                                                                                |
| 77208 |       | 77209 |         | 1                                                                                 |        |                                                                                    |
| 77210 |       | 77211 |         | 1.1/16                                                                            | 230    | 260                                                                                |
| 77212 |       | 77213 |         | 1.1/8                                                                             |        |                                                                                    |
| 77214 |       | 77215 |         | 1.3/16                                                                            | 255    | 350                                                                                |
| 74641 |       | 75471 |         | 1.1/4                                                                             | 260    |                                                                                    |
| 77216 |       | 77217 |         | 1.5/16                                                                            | 265    | 450                                                                                |
| 77218 |       | 77219 |         | 1.3/8                                                                             | 295    | 500                                                                                |
| 74643 |       | 75472 |         | 1.7/16                                                                            | 300    | 600                                                                                |
| 74642 |       | 75473 |         | 1.1/2                                                                             |        |                                                                                    |
| 77220 |       | 77221 |         | 1.9/16                                                                            |        |                                                                                    |
| 74644 | Cu-Be | 75474 | Al-Bron | 1.5/8                                                                             | 330    | 850                                                                                |
| 77222 |       | 77223 |         | 1.11/16                                                                           |        |                                                                                    |
| 77224 |       | 77225 |         | 1.3/4                                                                             |        | 1050                                                                               |
| 74645 |       | 75475 |         | 1.13/16                                                                           | 360    |                                                                                    |
| 77226 |       | 77227 |         | 1.7/8                                                                             |        | 1100                                                                               |
| 74646 |       | 75476 |         | 2                                                                                 | 400    | 1400                                                                               |
| 74647 |       | 74648 |         | 2.1/16                                                                            |        |                                                                                    |
| 77228 |       | 77229 |         | 2.1/8                                                                             |        |                                                                                    |
| 77230 |       | 77231 |         | 2.3/16                                                                            | 450    | 1500                                                                               |
| 77232 |       | 77233 |         | 2.1/4                                                                             |        |                                                                                    |
| 77234 |       | 77235 |         | 2.5/16                                                                            |        |                                                                                    |
| 77236 |       | 77237 |         | 2.3/8                                                                             | 475    | 1750                                                                               |
| 77238 |       | 77239 |         | 2.7/16                                                                            |        |                                                                                    |
| 77240 |       | 77241 |         | 2.1/2                                                                             |        |                                                                                    |
| 77242 |       | 77243 |         | 2.9/16                                                                            | 510    | 1950                                                                               |
| 77244 |       | 77245 |         | 2.3/4                                                                             | 550    | 2400                                                                               |
| 77246 |       | 77247 |         | 2.15/16                                                                           |        |                                                                                    |
| 77248 |       | 77249 |         | 3                                                                                 | 590    | 2800                                                                               |
| 77250 |       | 77251 |         | 3.1/8                                                                             |        |                                                                                    |
| 77252 |       | 77253 |         | 3.3/8                                                                             | 620    | 3900                                                                               |
| 77254 |       | 77255 |         | 3.1/2                                                                             |        |                                                                                    |
| 77256 |       | 77257 |         | 3.3/4                                                                             | 650    | 5500                                                                               |



**ESTRELLA DE UNA BOCA ACODADA / OFFSET SINGLE END RING WRENCH / CLÉ POLYгонаLE CONTRE COUDÉE / EINRINGSCHLÜSSEL, GEKRÖPFT / CHIAVE A GOMITO A STELLA UNA BOCCA / CHAVE LUNETA BOCA INCLINADA / КЛЮЧ ИЗОГНУТАЯ ОДИНАРНАЯ ЗВЕЗДОЧКА**

■ MM

| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | g   |
|-------|-------|-------|---------|-------|--------|-----|
| 74103 |       | 74104 |         | 17    | 150    | 130 |
| 74105 |       | 74106 |         | 19    | 170    | 170 |
| 74107 |       | 74108 |         | 21    | 185    | 210 |
| 74109 |       | 74110 |         | 22    | 190    | 220 |
| 74111 | Cu-Be | 74112 | Al-Bron | 24    | 210    | 280 |
| 74113 |       | 74114 |         | 27    | 230    | 350 |
| 74115 |       | 74116 |         | 30    | 250    | 480 |
| 74117 |       | 74118 |         | 32    | 270    | 600 |
| 74119 |       | 74120 |         | 36    | 290    | 750 |



**ESTRELLA DE UNA BOCA CURVA / CURVED SINGLE END RING WRENCH / CLÉ POLYгонаLE COURBÉE / EINRINGSCHLÜSSEL, GEBOGEN / POLYгонаLE UNA BOCCA CURVA / CHAVE LUNETA UMA BOCA CURVA / КЛЮЧ ИЗОГНУТАЯ ОДИНАРНАЯ ЗВЕЗДОЧКА**



■ MM

| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | g    |
|-------|-------|-------|---------|-------|--------|------|
| 74056 |       | 74057 |         | 10    | 120    | 65   |
| 74058 |       | 74059 |         | 12    | 160    | 90   |
| 74060 |       | 74061 |         | 14    | 150    | 95   |
| 74062 |       | 74063 |         | 16    |        |      |
| 74064 |       | 74065 |         | 17    | 175    | 150  |
| 74066 |       | 74067 |         | 19    |        | 220  |
| 74068 |       | 74069 |         | 22    | 200    |      |
| 74070 |       | 74071 |         | 24    |        | 320  |
| 74072 |       | 74073 |         | 27    |        |      |
| 74074 |       | 74075 |         | 30    | 250    | 550  |
| 74076 |       | 74077 |         | 32    |        |      |
| 74078 | Cu-Be | 74079 | Al-Bron | 34    | 290    | 600  |
| 74080 |       | 74081 |         | 36    |        |      |
| 74082 |       | 74083 |         | 38    | 300    | 800  |
| 74084 |       | 74085 |         | 41    |        |      |
| 74086 |       | 74087 |         | 46    |        | 1000 |
| 74088 |       | 74089 |         | 50    | 340    | 1250 |
| 74378 |       | 74379 |         | 51    |        |      |
| 74090 |       | 74091 |         | 55    | 370    | 2000 |
| 74092 |       | 74093 |         | 60    | 400    | 2400 |
| 74094 |       | 74095 |         | 65    | 430    | 2500 |
| 74096 |       | 74097 |         | 70    | 450    | 3500 |
| 74098 |       | 74099 |         | 75    | 470    | 3900 |
| 74100 |       | 74101 |         | 80    | 490    | 4200 |





**DE VÁLVULA CUADRADA / VALVE SQUARE / CLÉ À VANNE CARRÉE / VENTILSCHLÜSSEL / VALVOLA QUADRATA / CHAVE DE VÁLVULA QUADRADA / КЛЮЧ С КВАДРАТОМ**

MM

| COD.  | MAT.  | COD.  | MAT.    |  | L (mm) |  |
|-------|-------|-------|---------|-----------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------|
| 74162 |       | 74163 |         | 6                                                                                 | 110    | 60                                                                                 |
| 74164 |       | 74165 |         | 8                                                                                 | 120    | 75                                                                                 |
| 74166 |       | 74167 |         | 9                                                                                 |        | 90                                                                                 |
| 74168 |       | 74169 |         | 10                                                                                | 140    | 100                                                                                |
| 74170 |       | 74171 |         | 11                                                                                | 160    | 120                                                                                |
| 74172 |       | 74173 |         | 12                                                                                | 190    | 170                                                                                |
| 74174 | Cu-Be | 74175 | Al-Bron | 13                                                                                | 200    | 180                                                                                |
| 74176 |       | 74177 |         | 14                                                                                |        | 270                                                                                |
| 74178 |       | 74179 |         | 16                                                                                | 250    | 300                                                                                |
| 74180 |       | 74181 |         | 17                                                                                | 300    | 380                                                                                |
| 74182 |       | 74183 |         | 19                                                                                | 350    | 700                                                                                |
| 74184 |       | 74185 |         | 22                                                                                | 400    | 950                                                                                |
| 74186 |       | 74187 |         | 24                                                                                | 500    | 1200                                                                               |


**DE VASO CUADRADA / SQUARE SOCKET / CLÉ À DOUILLE CARRÉE / QUADRATISCHE EINSATZ / BUSSOLA QUADRATA / CHAVE DE CAIXA QUADRADA / ГОЛОВКА С ВНУТРЕННИМ КВАДРАТОМ**




INCH

| COD.  | MAT.  | COD.  | MAT.    |  | L (mm) |  |
|-------|-------|-------|---------|------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|
| 74189 | Cu-Be | 74190 | Al-Bron | 3/8                                                                                | 155    | 180                                                                                 |


**CABEZA FIJA / CROW FOOT OPEN END / FOURCHE / HEBESTANGE / TESTA FISSA / CABEÇA FIXA / РОКОВАЯ НАСАДКА ПОД КВАДРАТ**

1/4"

INCH

| COD.  | MAT.  | COD.  | MAT.    |  |  |  |
|-------|-------|-------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 79971 | Cu-Be | 79972 | Al-Bron | 1/4                                                                                 | 1/4                                                                                 | 20                                                                                   |
| 79973 |       | 79974 |         | 5/16                                                                                |                                                                                     | 25                                                                                   |






3/8"

MM

| COD.  | MAT.  | COD.  | MAT.    |  |  |  |
|-------|-------|-------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 72524 | Cu-Be | 72525 | Al-Bron | 14                                                                                  | 3/8                                                                                 | 50                                                                                   |



INCH

| COD.  | MAT.  | COD.  | MAT.    |  | L (mm) |  |  |
|-------|-------|-------|---------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 35728 |       | 35729 |         | 3/8                                                                                 |        |                                                                                     |                                                                                       |
| 74814 |       | 74815 |         | 7/16                                                                                | 35     |                                                                                     |                                                                                       |
| 74816 |       | 74817 |         | 1/2                                                                                 |        |                                                                                     |                                                                                       |
| 72541 |       | 72542 |         | 9/16                                                                                |        |                                                                                     | 50                                                                                    |
| 72543 | Cu-Be | 72544 | Al-Bron | 5/8                                                                                 | 37     | 3/8                                                                                 |                                                                                       |
| 72545 |       | 72546 |         | 11/16                                                                               | 38     |                                                                                     |                                                                                       |
| 36240 |       | 36241 |         | 3/4                                                                                 | 40     |                                                                                     | 55                                                                                    |
| 72547 |       | 72548 |         | 7/8                                                                                 | 43     |                                                                                     |                                                                                       |
| 35862 |       | 77781 |         | 1.1/16                                                                              | 50     |                                                                                     | 75                                                                                    |





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**ANTICHISPA**  
**NON-SPARKING**  
**ANTIDÉFLAGRANT**  
**FUNKENFREI**  
**ANTISCINTILLA**  
**ANTI-DEFLAGRANTE**  
**ИСКРОБЕЗОПАСНЫЙ**



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | AF inch | g   |
|-------|-------|-------|---------|---------|--------|---------|-----|
| 72549 | Cu-Be | 72550 | Al-Bron | 1.1/8   | 50     | 3/8     | 75  |
| 72551 |       | 72552 |         | 1.1/4   | 55     |         | 90  |
| 72553 |       | 72554 |         | 1.3/8   |        |         |     |
| 72555 |       | 72556 |         | 1.1/2   | 60     |         | 125 |
| 72557 |       | 72558 |         | 1.11/16 | 65     |         | 160 |
| 72559 |       | 72560 |         | 1.7/8   | 70     |         | 170 |
| 72561 |       | 72562 |         | 2       | 75     |         | 175 |
| 72563 |       | 72564 |         | 2.1/4   | 80     |         | 190 |

■ 1/2"

■ MM

| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | AF inch | g   |
|-------|-------|-------|---------|-------|--------|---------|-----|
| 72565 | Cu-Be | 72566 | Al-Bron | 14    | 40     | 1/2     | 55  |
| 72567 |       | 72568 |         | 16    | 45     |         | 60  |
| 72569 |       | 72570 |         | 17    |        |         |     |
| 72571 |       | 72572 |         | 19    |        |         |     |
| 72573 |       | 72574 |         | 20    | 50     |         | 100 |
| 72575 |       | 72576 |         | 22    |        |         | 105 |
| 36336 |       | 36337 |         | 24    |        |         |     |
| 72577 |       | 72578 |         | 25    | 55     |         | 125 |
| 72579 |       | 72580 |         | 27    |        |         | 130 |
| 72581 |       | 72582 |         | 28    | 60     |         | 135 |
| 36338 |       | 36339 |         | 30    | 63     |         | 215 |



# EGAMaster

## ART IN INNOVATION

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Аллюминий Бронза

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**EGAMaster**  
 ART IN INNOVATION

1077

**LLAVE ESTRELLA DE EXTENSIÓN / RING SPANNER FOR EXTENSION / CLÉ POLYGONALE À RALLONGE / RINGSCHLÜSSEL MIT VERLÄNGERUNG / CHIAVE POLIGONALE PER ESTENSORI / CHAVE DE LUNETA DE EXTENSÃO / ИЗОГНУТАЯ ЗВЕЗДОЧКА ПОД УДЛИНИТЕЛЬ**

■ MM

■ INCH



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | g    |
|-------|-------|-------|---------|-------|--------|------|
| 73688 |       | 73689 |         | 24    |        |      |
| 73472 |       | 73396 |         | 27    | 200    |      |
| 70957 |       | 70982 |         | 30    |        |      |
| 70958 |       | 70983 |         | 32    | 220    |      |
| 77368 |       | 77369 |         | 33    |        | 900  |
| 70959 |       | 70984 |         | 34    |        |      |
| 70960 |       | 70985 |         | 35    | 230    |      |
| 70961 |       | 70986 |         | 36    |        |      |
| 70962 |       | 70987 |         | 37    |        |      |
| 70963 |       | 70988 |         | 38    |        |      |
| 70964 |       | 70989 |         | 41    | 250    | 1200 |
| 70965 |       | 70990 |         | 42    |        |      |
| 70966 |       | 70991 |         | 46    | 270    | 1600 |
| 70967 |       | 70992 |         | 47    |        |      |
| 70968 |       | 70993 |         | 50    | 280    | 1700 |
| 70969 | Cu-Be | 70994 | Al-Bron | 52    |        |      |
| 70970 |       | 70995 |         | 54    |        |      |
| 70971 |       | 70996 |         | 55    | 290    | 1800 |
| 70972 |       | 70997 |         | 56    |        |      |
| 70973 |       | 70998 |         | 58    |        | 2000 |
| 70974 |       | 70999 |         | 60    | 310    |      |
| 70975 |       | 71000 |         | 63    |        |      |
| 70976 |       | 71001 |         | 65    | 320    | 2200 |
| 70977 |       | 71002 |         | 67    |        |      |
| 70978 |       | 71003 |         | 70    |        |      |
| 70979 |       | 71004 |         | 71    | 330    | 2700 |
| 70980 |       | 71005 |         | 75    |        |      |
| 70981 |       | 71006 |         | 77    | 340    | 3300 |
| 77370 |       | 77371 |         | 80    |        |      |
| 77372 |       | 77373 |         | 82    | 380    | 4900 |
| 77374 |       | 77375 |         | 85    |        |      |

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | g    |
|-------|-------|-------|---------|---------|--------|------|
| 77376 |       | 77377 |         | 1.3/16  | 200    |      |
| 77378 |       | 77379 |         | 1.1/4   |        |      |
| 77380 |       | 77381 |         | 1.5/16  | 230    | 900  |
| 77382 |       | 77383 |         | 1.3/8   |        |      |
| 77384 |       | 77385 |         | 1.7/16  | 240    |      |
| 77386 |       | 77387 |         | 1.1/2   |        |      |
| 77388 |       | 77389 |         | 1.9/16  |        |      |
| 77390 |       | 77391 |         | 1.5/8   | 260    | 1000 |
| 77392 |       | 77393 |         | 1.11/16 |        |      |
| 77394 |       | 77395 |         | 1.3/4   |        |      |
| 77396 |       | 77397 |         | 1.13/16 | 280    | 1500 |
| 77398 |       | 77399 |         | 1.7/8   |        |      |
| 77400 |       | 77401 |         | 2       | 290    | 1600 |
| 77402 |       | 77403 |         | 2.1/16  |        | 1700 |
| 77404 | Cu-Be | 77405 | Al-Bron | 2.1/8   | 300    |      |
| 77406 |       | 77407 |         | 2.3/16  |        | 1800 |
| 77408 |       | 77409 |         | 2.1/4   |        |      |
| 77410 |       | 77411 |         | 2.5/16  |        |      |
| 77412 |       | 77413 |         | 2.3/8   | 345    | 2800 |
| 77414 |       | 77415 |         | 2.7/16  |        |      |
| 77416 |       | 77417 |         | 2.1/2   |        |      |
| 77418 |       | 77419 |         | 2.9/16  | 355    | 3200 |
| 77420 |       | 77421 |         | 2.5/8   |        |      |
| 77422 |       | 77423 |         | 2.3/4   | 365    | 3700 |
| 77424 |       | 77425 |         | 2.13/16 |        |      |
| 77426 |       | 77427 |         | 2.15/16 | 375    | 4100 |
| 77428 |       | 77429 |         | 3       |        |      |
| 77430 |       | 77431 |         | 3.1/8   |        |      |
| 77432 |       | 77433 |         | 3.1/4   | 385    | 4900 |
| 77434 |       | 77435 |         | 3.3/8   |        |      |

**LLAVE FIJA DE EXTENSION / OPEN-END WRENCH FOR EXTENSION / CLÉ À FOURCHE À RALLONGE / ZUGMAULSCHLÜSSEL / CHIAVE FISSA A ESTENSIONE / CHAVE DE BOCA COM EXTENSÃO / ГАЕЧНЫЙ КЛЮЧ С РУКОЯТКОЙ ПОД УДЛИНИТЕЛЬ**

**MM**

| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | g    |
|-------|-------|-------|---------|-------|--------|------|
| 36350 |       | 36368 |         | 22    | 200    | 410  |
| 36351 |       | 36369 |         | 24    | 230    | 460  |
| 36352 |       | 36370 |         | 27    | 260    | 540  |
| 36353 |       | 36371 |         | 30    | 280    | 660  |
| 36354 | Cu-Be | 36372 | Al-Bron | 32    | 300    | 810  |
| 36355 |       | 36373 |         | 36    | 330    | 950  |
| 36356 |       | 36374 |         | 41    | 350    | 1120 |
| 36357 |       | 36375 |         | 46    | 380    | 1550 |
| 36358 |       | 36376 |         | 50    | 400    | 1810 |



**INCH**

| COD.  | MAT.  | COD.  | MAT.    | AF inch  | L (mm) | g    |
|-------|-------|-------|---------|----------|--------|------|
| 36359 |       | 36377 |         | 7/8"     | 200    | 410  |
| 36360 |       | 36378 |         | 15/16"   | 230    | 460  |
| 36361 |       | 36379 |         | 1.1/16"  | 260    | 540  |
| 36362 |       | 36380 |         | 1.3/16"  | 280    | 660  |
| 36363 | Cu-Be | 36381 | Al-Bron | 1.1/4"   | 300    | 810  |
| 36364 |       | 36382 |         | 1.7/16"  | 330    | 950  |
| 36365 |       | 36383 |         | 1.5/8"   | 350    | 1120 |
| 36366 |       | 36384 |         | 1.13/16" | 380    | 1550 |
| 36367 |       | 36385 |         | 2"       | 400    | 1810 |



**EXTENSION PARA LLAVE ESTRELLA ACODADA Y LLAVE FIJA / EXTENSION FOR OFFSET RING SPANNER AND OPEN-END WRENCHES / RALLONGE POUR CLÉS POLYGONALE CONTRE-COUDÉE À FOURCHE / VERLÄNGERUNG FÜR RINGSCHLÜSSEL / ESTENSIONE PER CHIAVE POLIGONALE ANGOLATA E CHIAVE FISSA / EXTENSÃO PARA CHAVE LUNETEA E CHAVE DE BOCA / УДЛИНИТЕЛЬ ДЛЯ КЛЮЧА ИЗОГНУТАЯ ЗВЕЗДОЧКА**

| COD.  | MAT.                   | AF mm | AF inch       | L (mm) | O.D. mm | g    |
|-------|------------------------|-------|---------------|--------|---------|------|
| 72612 |                        | 22-30 | 1.3/16        | 460    | 19      | 800  |
| 72605 | Latón / Brass / Laiton | 32-42 | 1.1/4-1.11/16 | 610    | 22      | 900  |
| 72606 |                        | 46-58 | 1.3/4-2.5/16  | 760    | 25      | 1600 |
| 72607 |                        | 60-85 | 2.3/8-3.3/8   | 860    | 30      | 2500 |



■ **FIJA DE UNA BOCA / SINGLE ENDED OPEN JAW SPANNER / À FOURCHE / EINMAUSCHLÜSSEL / FISSE SEMPLICE / FIXA DE UMA BOCA / РОЖКОВЫЙ КЛЮЧ**

■ **MM**



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | g    |
|-------|-------|-------|---------|-------|--------|------|
| 75385 |       | 75386 |         | 5     | 75     | 30   |
| 70259 |       | 70936 |         | 6     | 85     |      |
| 70260 |       | 70937 |         | 7     | 90     | 40   |
| 70261 |       | 70938 |         | 8     | 100    |      |
| 70262 |       | 70939 |         | 9     | 105    |      |
| 70263 |       | 70940 |         | 10    | 110    |      |
| 70264 |       | 70941 |         | 11    | 120    |      |
| 72939 |       | 71807 |         | 12    | 125    |      |
| 72940 |       | 71808 |         | 13    | 130    |      |
| 70265 |       | 70942 |         | 14    | 135    | 50   |
| 72941 |       | 71809 |         | 15    | 145    |      |
| 72942 |       | 71810 |         | 16    | 150    |      |
| 70266 |       | 70943 |         | 17    | 155    |      |
| 72943 |       | 71811 |         | 18    | 165    |      |
| 70267 |       | 70944 |         | 19    | 170    |      |
| 72944 |       | 71812 |         | 20    | 175    | 70   |
| 72945 |       | 71813 |         | 21    | 180    | 85   |
| 70268 |       | 70945 |         | 22    | 185    | 100  |
| 72946 |       | 71814 |         | 23    | 190    | 150  |
| 70269 |       | 70946 |         | 24    | 195    |      |
| 72947 |       | 71815 |         | 25    | 200    | 200  |
| 72948 |       | 71816 |         | 26    | 210    |      |
| 70270 |       | 70947 |         | 27    | 220    |      |
| 72949 |       | 71817 |         | 28    | 230    | 250  |
| 72950 |       | 71818 |         | 29    | 240    | 270  |
| 70271 | Cu-Be | 70948 | Al-Bron | 30    | 250    |      |
| 72955 |       | 72911 |         | 31    | 260    | 300  |
| 70272 |       | 70949 |         | 32    | 270    |      |
| 75387 |       | 75388 |         | 34    | 290    | 400  |
| 70273 |       | 70950 |         | 36    | 300    |      |
| 74403 |       | 74404 |         | 37    | 310    | 490  |
| 75389 |       | 75390 |         | 38    | 320    |      |
| 74344 |       | 74345 |         | 39    | 330    |      |
| 73300 |       | 73305 |         | 40    | 340    | 500  |
| 70274 |       | 70951 |         | 41    | 350    |      |
| 74346 |       | 73306 |         | 42    | 360    | 550  |
| 73302 |       | 73307 |         | 44    | 370    | 850  |
| 75391 |       | 75392 |         | 45    | 380    | 900  |
| 70275 |       | 70952 |         | 46    | 390    | 1000 |
| 73303 |       | 73308 |         | 48    | 400    |      |
| 70276 |       | 70953 |         | 50    | 420    | 1200 |
| 73304 |       | 73309 |         | 52    | 440    |      |
| 77000 |       | 77001 |         | 54    | 450    | 1400 |
| 70277 |       | 70954 |         | 55    | 460    |      |
| 77002 |       | 77003 |         | 56    | 480    | 1800 |
| 77004 |       | 77005 |         | 58    | 500    |      |
| 70278 |       | 70955 |         | 60    | 520    |      |
| 77006 |       | 77007 |         | 63    | 550    | 2100 |
| 70279 |       | 70956 |         | 65    | 570    |      |
| 77008 |       | 77009 |         | 67    | 600    | 3000 |
| 75393 |       | 75394 |         | 70    | 650    | 3200 |

| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | g    |
|-------|-------|-------|---------|-------|--------|------|
| 77010 |       | 77011 |         | 71    | 550    | 3400 |
| 75395 |       | 75396 |         | 75    | 600    | 3500 |
| 77012 |       | 77013 |         | 77    | 650    | 4000 |
| 77014 |       | 77015 |         | 80    | 700    | 5000 |
| 77016 |       | 77017 |         | 82    | 750    |      |
| 77018 | Cu-Be | 77019 | Al-Bron | 85    | 800    | 5500 |
| 77020 |       | 77021 |         | 88    | 850    |      |
| 77022 |       | 77023 |         | 90    | 900    | 5800 |
| 77024 |       | 77025 |         | 94    | 950    |      |
| 77026 |       | 77027 |         | 95    | 1000   | 5900 |
| 77028 |       | 77029 |         | 100   | 1100   | 6000 |

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**ANTICHISPA**  
**NON-SPARKING**  
**ANTIDÉFLAGRANT**  
**FUNKENFREI**  
**ANTISCINTILLA**  
**ANTI-DEFLAGRANTE**  
**ИСКРБЕЗОПАСНЫЙ**



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 Quality

■ INCH



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | g    |
|-------|-------|-------|---------|---------|--------|------|
| 77030 |       | 77031 |         | 5/16    | 90     | 20   |
| 77032 |       | 77033 |         | 3/8     |        |      |
| 77034 |       | 77035 |         | 13/32   | 100    | 35   |
| 77036 |       | 77037 |         | 7/16    | 105    |      |
| 77038 |       | 77039 |         | 1/2     |        |      |
| 77040 |       | 77041 |         | 9/16    | 125    | 55   |
| 77042 |       | 77043 |         | 19/32   |        |      |
| 77044 |       | 77045 |         | 5/8     | 140    | 95   |
| 77046 |       | 77047 |         | 11/16   |        |      |
| 77048 |       | 77049 |         | 3/4     | 155    | 110  |
| 77050 |       | 77051 |         | 25/32   | 170    | 185  |
| 77052 |       | 77053 |         | 13/16   |        |      |
| 77054 |       | 77055 |         | 7/8     | 180    | 200  |
| 77056 |       | 77057 |         | 15/16   | 195    | 220  |
| 77058 |       | 77059 |         | 31/32   |        |      |
| 77060 |       | 77061 |         | 1       | 225    | 310  |
| 77062 |       | 77063 |         | 1.1/16  |        |      |
| 77064 |       | 77065 |         | 1.1/8   | 255    | 420  |
| 77066 |       | 77067 |         | 1.3/16  |        |      |
| 77068 |       | 77069 |         | 1.1/4   |        |      |
| 77070 |       | 77071 |         | 1.5/16  | 275    | 560  |
| 77072 |       | 77073 |         | 1.3/8   |        |      |
| 77074 |       | 77075 |         | 1.7/16  | 300    | 850  |
| 77076 |       | 77077 |         | 1.1/2   |        |      |
| 77078 |       | 77079 |         | 1.9/16  | 325    | 1000 |
| 77080 | Cu-Be | 77081 | Al-Bron | 1.5/8   |        |      |
| 77082 |       | 77083 |         | 1.11/16 |        |      |
| 77084 |       | 77085 |         | 1.3/4   | 350    | 1100 |
| 77086 |       | 77087 |         | 1.13/16 |        |      |
| 77088 |       | 77089 |         | 1.7/8   | 375    | 1450 |
| 77090 |       | 77091 |         | 2       |        |      |
| 77092 |       | 77093 |         | 2.1/16  |        |      |
| 77094 |       | 77095 |         | 2.1/8   | 400    | 1800 |
| 76751 |       | 76752 |         | 2.3/16  |        |      |
| 77096 |       | 77097 |         | 2.1/4   |        |      |
| 77098 |       | 77099 |         | 2.5/16  |        |      |
| 77100 |       | 77101 |         | 2.3/8   | 425    | 2300 |
| 77102 |       | 77103 |         | 2.7/16  |        |      |
| 77104 |       | 77105 |         | 2.1/2   |        |      |
| 77106 |       | 77107 |         | 2.9/16  | 450    | 3050 |
| 77108 |       | 77109 |         | 2.5/8   |        |      |
| 76753 |       | 76754 |         | 2.3/4   | 475    | 3400 |
| 77110 |       | 77111 |         | 2.13/16 |        |      |
| 77112 |       | 77113 |         | 2.15/16 | 500    | 4150 |
| 77114 |       | 77115 |         | 3       |        |      |
| 77116 |       | 77117 |         | 3.1/8   |        |      |
| 77118 |       | 77119 |         | 3.1/4   | 525    | 5100 |
| 77120 |       | 77121 |         | 3.3/8   | 545    | 5600 |
| 77122 |       | 77123 |         | 3.1/2   |        |      |
| 77124 |       | 77125 |         | 3.5/8   | 555    | 5850 |
| 77126 |       | 77127 |         | 3.3/4   | 560    | 6000 |
| 77128 |       | 77129 |         | 3.7/8   | 565    | 6100 |

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

Si no encuentra el artículo que necesita, consúltenos en [consulta@egamaster.com](mailto:consulta@egamaster.com) o en [www.egamaster.com](http://www.egamaster.com)  
 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
 Si vous ne trouvez pas l'article que vous desirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)

**EGAMaster**  
 ART IN INNOVATION

1081

**FIJA DE UNA BOCA CURVA / BENT SINGLE OPEN END / CLE À FOURCHE COUDÉE / GEBOGEN MAUL / FISSA AD UNA BOCCA CURVA / FIXA DE UMA BOCA CURVA / ИЗОГНУТЫЙ РОЖКОВЫЙ**

■ **MM**

| COD.  | MAT.  | COD.  | MAT.    | AF <sup>mm</sup> | L (mm) | g    |
|-------|-------|-------|---------|------------------|--------|------|
| 73909 |       | 73910 |         | 12               | 120    | 50   |
| 73911 |       | 73912 |         | 14               | 130    | 80   |
| 73913 |       | 73914 |         | 17               | 150    | 120  |
| 73915 |       | 73916 |         | 19               | 170    | 170  |
| 75479 |       | 75480 |         | 21               | 190    | 240  |
| 73917 |       | 73918 |         | 22               | 190    | 240  |
| 73919 |       | 73920 |         | 24               | 210    | 250  |
| 75481 |       | 75482 |         | 26               | 230    | 350  |
| 73921 |       | 73922 |         | 27               | 230    | 370  |
| 75483 | Cu-Be | 75484 | Al-Bron | 28               | 250    | 470  |
| 75485 |       | 75486 |         | 29               | 250    | 470  |
| 73923 |       | 73924 |         | 30               | 270    | 550  |
| 73925 |       | 73926 |         | 32               | 270    | 550  |
| 73927 |       | 73928 |         | 34               | 280    | 700  |
| 73929 |       | 73930 |         | 36               | 290    | 800  |
| 73931 |       | 73932 |         | 41               | 310    | 1000 |
| 73933 |       | 73934 |         | 46               | 330    | 1300 |
| 73935 |       | 73936 |         | 50               | 350    | 1500 |
| 73937 |       | 73938 |         | 55               | 370    | 2000 |





■ **INCH**

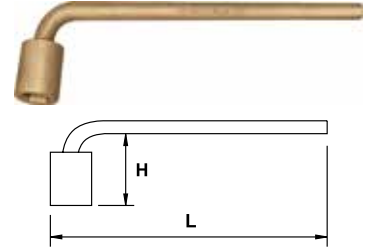
| COD.  | MAT.  | COD.  | MAT.    | AF <sup>inch</sup> | L (mm) | g    |
|-------|-------|-------|---------|--------------------|--------|------|
| 36285 |       | 36290 |         | 1/4                | 90     | 50   |
| 36286 |       | 36291 |         | 5/16               | 100    | 80   |
| 36287 |       | 36292 |         | 1/2                | 120    | 120  |
| 36510 |       | 36511 |         | 9/16               | 130    | 170  |
| 36288 |       | 36293 |         | 5/8                | 170    | 240  |
| 36512 |       | 36513 |         | 3/4                | 190    | 250  |
| 36514 |       | 36515 |         | 7/8                | 210    | 245  |
| 36516 |       | 36517 |         | 15/16              | 210    | 245  |
| 36518 |       | 36519 |         | 1                  | 230    | 365  |
| 36520 |       | 36521 |         | 1.1/16             | 230    | 365  |
| 36289 | Cu-Be | 36294 | Al-Bron | 1.1/8              | 250    | 470  |
| 36522 |       | 36523 |         | 1.3/16             | 250    | 480  |
| 36524 |       | 36525 |         | 1.1/4              | 270    | 565  |
| 36526 |       | 36527 |         | 1.3/8              | 280    | 690  |
| 36528 |       | 36529 |         | 1.7/16             | 290    | 815  |
| 36530 |       | 36531 |         | 1.1/2              | 310    | 1050 |
| 36532 |       | 36533 |         | 1.5/8              | 310    | 1050 |
| 36534 |       | 36535 |         | 1.3/4              | 330    | 1280 |
| 36536 |       | 36537 |         | 1.13/16            | 330    | 1280 |
| 36538 |       | 36539 |         | 2                  | 350    | 1550 |
| 36540 |       | 36541 |         | 2.1/8              | 370    | 2050 |



**■ DE PIPA / ANGLED SOCKET / CLÉS À PIPE / PFEIFENSCHLÜSSEL / CHIAVI A PIPA / DE CACHIMBO / ГОЛОВКА С ИЗОГНУТОЙ РУКОЯТКОЙ**

■ MM

| COD.  | MAT.  | COD.  | MAT.    |  | L (mm) | H (mm) |  |
|-------|-------|-------|---------|-----------------------------------------------------------------------------------|--------|--------|-------------------------------------------------------------------------------------|
| 75489 |       | 75490 |         | 6                                                                                 | 120    | 29     | 100                                                                                 |
| 75491 |       | 75492 |         | 7                                                                                 | 130    | 30     | 120                                                                                 |
| 70417 |       | 71361 |         | 8                                                                                 | 145    | 33     | 140                                                                                 |
| 70418 |       | 71362 |         | 9                                                                                 | 155    | 37     | 180                                                                                 |
| 73312 |       | 73319 |         | 10                                                                                | 170    | 39     | 190                                                                                 |
| 70419 |       | 71363 |         | 11                                                                                | 190    | 42     | 210                                                                                 |
| 73313 |       | 73320 |         | 12                                                                                | 210    | 45     | 240                                                                                 |
| 73314 |       | 73321 |         | 13                                                                                | 240    | 48     | 290                                                                                 |
| 70420 |       | 71364 |         | 14                                                                                | 250    | 50     | 330                                                                                 |
| 73315 |       | 73322 |         | 15                                                                                | 260    | 55     | 350                                                                                 |
| 73316 |       | 73323 |         | 16                                                                                | 270    | 60     | 450                                                                                 |
| 70421 |       | 71365 |         | 17                                                                                | 280    | 65     | 500                                                                                 |
| 75493 |       | 75494 |         | 18                                                                                | 290    | 70     | 550                                                                                 |
| 70422 |       | 71366 |         | 19                                                                                | 300    | 75     | 700                                                                                 |
| 75495 |       | 75496 |         | 20                                                                                | 310    | 80     | 750                                                                                 |
| 75497 |       | 75498 |         | 21                                                                                | 320    | 85     | 850                                                                                 |
| 70423 |       | 71367 |         | 22                                                                                | 330    | 90     | 950                                                                                 |
| 75499 |       | 75500 |         | 23                                                                                | 340    | 95     | 1100                                                                                |
| 70424 |       | 71368 |         | 24                                                                                | 350    | 100    | 1200                                                                                |
| 75501 |       | 75502 |         | 25                                                                                | 360    | 105    | 1300                                                                                |
| 75503 |       | 75504 |         | 26                                                                                | 370    | 110    | 1700                                                                                |
| 70425 |       | 71369 |         | 27                                                                                | 380    | 115    | 2000                                                                                |
| 75505 |       | 75506 |         | 28                                                                                | 390    | 120    | 2300                                                                                |
| 75507 |       | 75508 |         | 29                                                                                | 400    | 125    | 2600                                                                                |
| 73317 |       | 73324 |         | 30                                                                                | 410    | 130    | 2700                                                                                |
| 73318 |       | 73325 |         | 32                                                                                | 420    | 135    | 3000                                                                                |
| 75509 | Cu-Be | 75510 | Al-Bron | 33                                                                                | 430    | 140    | 4100                                                                                |
| 75511 |       | 75512 |         | 34                                                                                | 440    | 145    | 4400                                                                                |
| 75513 |       | 75514 |         | 35                                                                                | 450    | 150    | 4600                                                                                |
| 72916 |       | 72914 |         | 36                                                                                | 460    | 155    | 4800                                                                                |
| 75515 |       | 75516 |         | 37                                                                                | 470    | 160    | 4800                                                                                |
| 75517 |       | 75518 |         | 38                                                                                | 480    | 165    | 4800                                                                                |
| 72917 |       | 72915 |         | 41                                                                                | 490    | 170    | 4800                                                                                |
| 75519 |       | 75520 |         | 42                                                                                | 500    | 175    | 4800                                                                                |
| 75521 |       | 75522 |         | 46                                                                                | 510    | 180    | 4800                                                                                |
| 75523 |       | 75524 |         | 47                                                                                | 520    | 185    | 4800                                                                                |
| 75525 |       | 75526 |         | 50                                                                                | 530    | 190    | 4800                                                                                |
| 77610 |       | 77611 |         | 52                                                                                | 540    | 195    | 4800                                                                                |
| 77612 |       | 77613 |         | 54                                                                                | 550    | 200    | 4800                                                                                |
| 75527 |       | 75528 |         | 55                                                                                | 560    | 205    | 4800                                                                                |
| 77614 |       | 77615 |         | 56                                                                                | 570    | 210    | 4800                                                                                |
| 77616 |       | 77617 |         | 58                                                                                | 580    | 215    | 4800                                                                                |
| 75529 |       | 75530 |         | 60                                                                                | 590    | 220    | 4800                                                                                |
| 77618 |       | 77619 |         | 63                                                                                | 600    | 225    | 4800                                                                                |
| 75531 |       | 75532 |         | 65                                                                                | 610    | 230    | 4800                                                                                |
| 77620 |       | 77621 |         | 67                                                                                | 620    | 235    | 4800                                                                                |
| 75533 |       | 75534 |         | 70                                                                                | 630    | 240    | 4800                                                                                |
| 77622 |       | 77623 |         | 71                                                                                | 640    | 245    | 4800                                                                                |
| 77624 |       | 77625 |         | 75                                                                                | 650    | 250    | 4800                                                                                |
| 77626 |       | 77627 |         | 77                                                                                | 660    | 255    | 4800                                                                                |
| 77628 |       | 77629 |         | 80                                                                                | 670    | 260    | 4800                                                                                |
| 77630 |       | 77631 |         | 82                                                                                | 680    | 265    | 4800                                                                                |



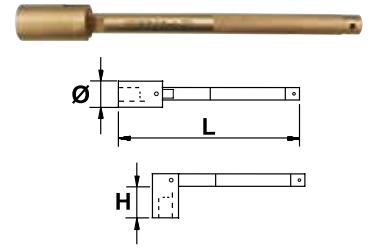
# 37

**ANTICHISPA  
NON-SPARKING  
ANTIDÉFLAGRANT  
FUNKENFREI  
ANTISCINTILLA  
ANTI-DEFLAGRANTE  
ИСКРОБЕЗОПАСНЫЙ**



## SCAFFOLD

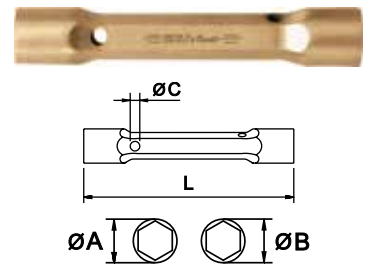
| COD.         | MAT.  | COD.         | MAT.    |    |    | L (mm) | H (mm) |     |
|--------------|-------|--------------|---------|----|----|--------|--------|-----|
| <b>79819</b> | Cu-Be | <b>79820</b> | Al-Bron | 22 | 33 | 300    | 40     | 600 |



## DE TUBO DOBLE BOCA / SOCKET DOUBLE ENDED / CLÉ À TUBE FORGÉE DROITE / DOPPEL-STECKSCHLÜSSEL / CHIAVI A TUBO / DIRITTE TUBOLARES BOCA DUPLA / ДВОЙНАЯ ГОЛОВКА

### MM

| COD.         | MAT.  | COD.         | MAT.    |     | L (mm) | A (mm) | B (mm) | Ø C (mm) |     |
|--------------|-------|--------------|---------|-----|--------|--------|--------|----------|-----|
| <b>74728</b> | Cu-Be | <b>74729</b> | Al-Bron | 6-7 | 100    | 11     | 13     | 4        | 85  |
| <b>74730</b> |       | 8-9          |         | 110 | 14     | 16     |        |          |     |
| <b>74732</b> |       | 10-11        |         | 115 | 17     | 18     |        |          |     |
| <b>74734</b> |       | 12-13        |         | 125 | 19     | 20     | 6      | 185      |     |
| <b>74736</b> |       | 14-15        |         | 130 | 22     | 23     |        | 8        | 290 |
| <b>74738</b> |       | 16-17        |         | 140 | 24     | 26     | 11     | 510      |     |
| <b>74740</b> |       | 18-19        |         | 150 | 27     | 29     |        | 570      |     |
| <b>74742</b> |       | 20-22        |         | 155 | 30     | 33     | 12     | 710      |     |
| <b>74744</b> |       | 21-23        |         | 165 | 31     | 34     |        | 750      |     |
| <b>74746</b> |       | 24-26        |         | 180 | 35     | 37     | 13     | 970      |     |
| <b>74748</b> |       | 25-28        |         | 190 | 36     | 40     |        | 1050     |     |
| <b>74750</b> |       | 27-29        |         | 190 | 39     | 42     | 1100   |          |     |
| <b>74827</b> |       | 30-36        |         | 200 | 43     | 50     | 1400   |          |     |



# BE SAFE...BE EFFICIENT



LLAVE DE VASO EN T SIN PASADOR / T-SOCKET WRENCH WITHOUT BAR / DOUILLE EN T SANS GOUPILLE / T-STECKSCHLÜSSEL OHNE STAB / CHIAVI A T ESAGONALI SENZA PERNO /  
CHAVE DE CAIXA EM T SEM EXTENSOR / КЛЮЧ С Т-ОБРАЗНОЙ ГОЛОВКОЙ ИСКРБЕЗОПАСНЫЙ БЕЗ ВОРОТКА

MM

| COD.  | MAT.  | COD.  | MAT.    | AF <sup>mm</sup> | L (mm) | g    |
|-------|-------|-------|---------|------------------|--------|------|
| 77632 |       | 77633 |         | 8                |        | 90   |
| 77634 |       | 77635 |         | 9                | 130    | 95   |
| 77636 |       | 77637 |         | 10               |        | 105  |
| 77638 |       | 77639 |         | 11               | 150    | 120  |
| 77640 |       | 77641 |         | 12               |        | 140  |
| 77642 |       | 77643 |         | 13               | 160    | 150  |
| 77644 |       | 77645 |         | 14               |        | 170  |
| 77646 |       | 77647 |         | 15               | 170    |      |
| 77648 |       | 77649 |         | 16               |        | 190  |
| 77650 |       | 77651 |         | 17               | 190    |      |
| 77652 |       | 77653 |         | 18               |        | 320  |
| 77654 |       | 77655 |         | 19               | 210    | 370  |
| 77656 |       | 77657 |         | 20               |        | 400  |
| 77658 |       | 77659 |         | 21               |        | 470  |
| 77660 |       | 77661 |         | 22               | 240    | 500  |
| 77662 |       | 77663 |         | 23               |        | 600  |
| 77664 |       | 77665 |         | 24               |        | 700  |
| 77666 |       | 77667 |         | 25               |        | 750  |
| 77668 |       | 77669 |         | 26               | 270    | 800  |
| 77670 |       | 77671 |         | 27               |        | 850  |
| 77672 |       | 77673 |         | 28               |        | 900  |
| 77674 |       | 77675 |         | 29               |        | 950  |
| 77676 |       | 77677 |         | 30               |        |      |
| 77678 |       | 77679 |         | 32               |        | 1050 |
| 77680 |       | 77681 |         | 33               |        | 1100 |
| 77682 |       | 77683 |         | 34               | 280    | 1200 |
| 77684 |       | 77685 |         | 35               |        | 1350 |
| 77686 |       | 77687 |         | 36               |        | 1450 |
| 77688 | Cu-Be | 77689 | Al-Bron | 37               |        | 1500 |
| 77690 |       | 77691 |         | 38               |        | 1650 |
| 77692 |       | 77693 |         | 41               |        | 1950 |
| 77694 |       | 77695 |         | 42               | 285    | 2150 |
| 77696 |       | 77697 |         | 46               |        | 2300 |
| 77698 |       | 77699 |         | 47               | 300    | 2450 |
| 77700 |       | 77701 |         | 50               |        | 3350 |
| 77702 |       | 77703 |         | 52               | 320    | 3400 |
| 77704 |       | 77705 |         | 54               |        | 3500 |
| 77706 |       | 77707 |         | 55               | 340    |      |
| 77708 |       | 77709 |         | 56               |        | 3550 |
| 77710 |       | 77711 |         | 58               |        | 4100 |
| 77712 |       | 77713 |         | 60               | 360    | 4400 |
| 77714 |       | 77715 |         | 63               |        | 4850 |
| 77716 |       | 77717 |         | 65               |        | 5150 |
| 77718 |       | 77719 |         | 67               | 380    | 5450 |
| 77720 |       | 77721 |         | 70               |        | 5900 |
| 77722 |       | 77723 |         | 71               |        |      |
| 77724 |       | 77725 |         | 75               |        | 6450 |
| 77726 |       | 77727 |         | 77               |        | 6700 |
| 77728 |       | 77729 |         | 80               | 400    | 6850 |
| 77730 |       | 77731 |         | 82               |        | 7100 |
| 77732 |       | 77733 |         | 85               |        | 7500 |
| 77734 |       | 77735 |         | 88               | 420    | 7750 |
| 77736 |       | 77737 |         | 90               |        | 9000 |
| 77738 |       | 77739 |         | 94               |        |      |
| 77740 |       | 77741 |         | 95               | 450    | 9200 |
| 77742 |       | 77743 |         | 100              |        | 9250 |



Cu-Be Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

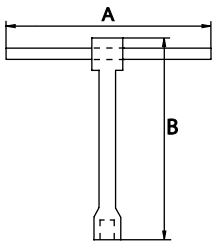
**PASADOR PARA LLAVE DE VASO EN "T" / BAR FOR THE T-SOCKET WRENCH / GOUPILLE POUR DOUILLE EN "T" / QUERSTAB FÜR "T" STECK-SCHLÜSSEL / PIN PER CHIAVE A BUSSOLA A T / EXTENSOR PARA CHAVE DE CAIXA EM T / ВОРОТОК ДЛЯ "Т"-ОБРАЗНОГО КЛЮЧА**

MM

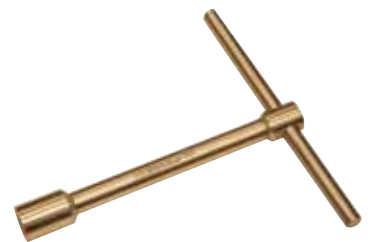
| COD.  | MAT.  | COD.  | MAT.    | AF mm  | L (mm) | O.D. mm | g    |
|-------|-------|-------|---------|--------|--------|---------|------|
| 77744 |       | 77745 |         | 8      | 120    | 7       | 35   |
| 77746 |       | 77747 |         | 9-10   | 130    |         | 50   |
| 77748 |       | 77749 |         | 11-12  | 140    | 8       | 55   |
| 77750 |       | 77751 |         | 13-15  | 150    | 9       | 75   |
| 77752 |       | 77753 |         | 16-18  | 170    |         | 100  |
| 77754 |       | 77755 |         | 19-20  | 180    | 10      | 105  |
| 77756 |       | 77757 |         | 21-22  | 190    | 12      | 165  |
| 77758 |       | 77759 |         | 23-28  |        | 13      | 210  |
| 77760 | Cu-Be | 77761 | Al-Bron | 29-34  | 200    | 16      | 320  |
| 77762 |       | 77763 |         | 35-37  |        | 18      | 400  |
| 77764 |       | 77765 |         | 38-42  | 300    | 20      | 750  |
| 77766 |       | 77767 |         | 46-47  | 350    |         | 850  |
| 77768 |       | 77769 |         | 50-56  | 450    | 25      | 1700 |
| 77770 |       | 77771 |         | 58-77  | 500    | 28      | 2400 |
| 77772 |       | 77773 |         | 80-85  |        | 32      | 3150 |
| 77774 |       | 77775 |         | 88-100 | 600    | 36      | 4800 |


**LLAVE DE VASO EN "T" / T-SOCKET WRENCH / DOUILLE EN "T" / T-STECKSCHLÜSSEL / CHIAVE A T POLIGONALE / CHAVE DE CAIXA EM T / ГОЛОВКА СТ-ОБРАЗНОЙ РУКОЯТКОЙ**

MM



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | A (mm) | B (mm) | g    |
|-------|-------|-------|---------|-------|--------|--------|--------|------|
| 71370 |       | 71381 |         | 9     | 130    | 130    | 130    | 145  |
| 71371 |       | 71382 |         | 11    | 150    | 140    | 150    | 190  |
| 71372 |       | 71383 |         | 14    | 170    | 150    | 170    | 250  |
| 71373 |       | 71384 |         | 17    | 190    | 170    | 190    | 420  |
| 71374 |       | 71385 |         | 19    | 210    | 180    | 210    | 500  |
| 71375 |       | 71386 |         | 22    | 240    | 190    | 240    | 700  |
| 71376 | Cu-Be | 71387 | Al-Bron | 24    | 270    |        | 270    | 750  |
| 71377 |       | 71388 |         | 27    |        |        |        |      |
| 71378 |       | 71389 |         | 30    |        |        |        |      |
| 71379 |       | 71390 |         | 32    |        | 200    |        | 900  |
| 72096 |       | 72097 |         | 36    | 280    |        | 280    | 950  |
| 71380 |       | 71391 |         | 38    |        |        |        | 1000 |



■ LLAVE EN "T" / "T" OPEN END WRENCH / CLÉ EN "T" / T-MAULSCHLÜSSEL / CHIAVE FISSA E T / CHAVE FIXA EM T / РОЖКОВЫЙ КЛЮЧ С Т-ОБРАЗНОЙ РУКОЯТКОЙ

■ MM

| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | g   |
|-------|-------|-------|---------|-------|--------|-----|
| 73951 | Cu-Be | 73952 | Al-Bron | 8     | 210    | 130 |
| 73953 |       | 73954 |         | 10    |        | 140 |
| 73955 |       | 73956 |         | 12    |        | 145 |
| 73957 |       | 73958 |         | 14    |        | 450 |



■ HEXAGONAL EN "T" / "T" HEXAGONAL WRENCH / CLÉ HEXAGONALE EN "T" / T-HEX SCHLÜSSEL / CHIAVE ESAGONALE A T / CHAVE HEXAGONAL EM T / ШЕСТИГРАННИК С Т-ОБРАЗНОЙ РУКОЯТКОЙ

■ MM

| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | g    |
|-------|-------|-------|---------|-------|--------|------|
| 74192 | Cu-Be | 74193 | Al-Bron | 10    | 150    | 250  |
| 74194 |       | 74195 |         | 12    | 170    | 280  |
| 74196 |       | 74197 |         | 14    |        | 380  |
| 74198 |       | 74199 |         | 17    | 190    | 450  |
| 74200 |       | 74201 |         | 19    | 220    | 600  |
| 74202 |       | 74203 |         | 22    | 240    | 650  |
| 74204 |       | 74205 |         | 24    | 260    | 900  |
| 74206 |       | 74207 |         | 27    |        | 950  |
| 74208 |       | 74209 |         | 30    | 280    | 1200 |
| 74210 |       | 74211 |         | 32    |        | 1400 |
| 74212 |       | 74213 |         | 36    |        | 1700 |
| 74214 |       | 74215 |         | 41    | 300    | 1900 |

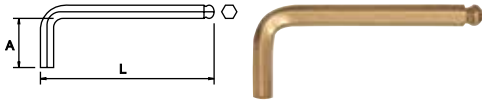


EGAMaster  
ART IN INNOVATION

**LLAVES HEXAGONALES DE BOLA / BALLPOINT HEXAGONAL KEYS / CLÉS MÂLES À TÊTE SPHÉRIQUE / KUGELKOPF INBUSSCHLÜSSEL / CHIAVI ESAGONALI CON TESTA SFERICA / CHAVES HEXAGONAIS ESFERICAS / ШЕСТИГРАННЫЕ КЛЮЧИ С ШАРОВОЙ ГОЛОВКОЙ**

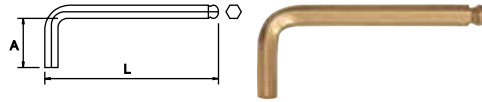
**STANDARD**

**MM**



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | A (mm) | g   |
|-------|-------|-------|---------|-------|--------|--------|-----|
| 36605 |       | 36607 |         | 1,5   | 47     | 14     | 3   |
| 75553 |       | 75554 |         | 2     | 50     | 16     | 7   |
| 36606 |       | 36608 |         | 2,5   | 60     | 18     |     |
| 72177 |       | 72184 |         | 3     | 65     | 20     | 11  |
| 72178 |       | 72185 |         | 4     | 70     | 25     | 14  |
| 72179 |       | 72186 |         | 5     | 80     | 28     | 43  |
| 72180 | Cu-Be | 72187 | Al-Bron | 6     | 90     | 32     |     |
| 75555 |       | 75556 |         | 7     | 95     | 34     | 45  |
| 72181 |       | 72188 |         | 8     | 100    | 36     |     |
| 75557 |       | 75558 |         | 9     | 105    | 38     | 60  |
| 72182 |       | 72189 |         | 10    | 110    | 40     | 80  |
| 75559 |       | 75560 |         | 11    | 120    | 42     | 100 |
| 72183 |       | 72190 |         | 12    | 125    | 45     | 130 |

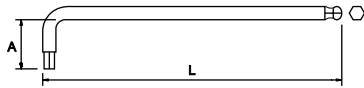
**INCH**



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | A (mm) | g  |
|-------|-------|-------|---------|---------|--------|--------|----|
| 36250 |       | 36251 |         | 1/8     | 65     | 20     | 11 |
| 36252 |       | 36253 |         | 5/32    | 75     | 25     | 14 |
| 36254 |       | 36255 |         | 3/16    | 85     | 28     | 41 |
| 36256 | Cu-Be | 36257 | Al-Bron | 7/32    | 95     | 32     |    |
| 36258 |       | 36259 |         | 1/4     | 100    | 34     | 43 |
| 36260 |       | 36261 |         | 5/16    | 110    | 36     |    |
| 36262 |       | 36263 |         | 3/8     | 120    | 40     | 75 |

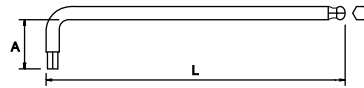
**SERIE LARGA / LONG PATTERN / SÉRIE LONGUE / LANGE SCHNKL / SERIE LUNGA / SERIE LONGA / ДЛИННЫЕ**

**MM**



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | A (mm) | g   |
|-------|-------|-------|---------|-------|--------|--------|-----|
| 77562 |       | 77563 |         | 2     | 100    | 16     | 15  |
| 70410 |       | 71354 |         | 3     | 130    | 20     | 21  |
| 70411 |       | 71355 |         | 4     | 145    | 25     | 25  |
| 70412 |       | 71356 |         | 5     | 160    | 28     | 43  |
| 70413 |       | 71357 |         | 6     | 180    | 32     | 60  |
| 77566 | Cu-Be | 77567 | Al-Bron | 7     | 195    | 34     | 90  |
| 70414 |       | 71358 |         | 8     | 210    | 36     | 150 |
| 77568 |       | 77569 |         | 9     | 220    | 38     | 200 |
| 70415 |       | 71359 |         | 10    | 240    | 40     | 250 |
| 70416 |       | 71360 |         | 12    | 270    | 45     | 440 |

**INCH**

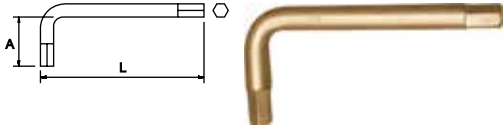


| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | A (mm) | g   |
|-------|-------|-------|---------|---------|--------|--------|-----|
| 36264 |       | 36265 |         | 1/8     | 130    | 20     | 21  |
| 36266 |       | 36267 |         | 5/32    | 145    | 25     | 25  |
| 36268 |       | 36269 |         | 3/16    | 160    | 28     | 43  |
| 36270 | Cu-Be | 36271 | Al-Bron | 7/32    | 180    | 32     | 60  |
| 36272 |       | 36273 |         | 1/4     | 195    | 34     | 90  |
| 36274 |       | 36275 |         | 5/16    | 210    | 36     | 150 |
| 36276 |       | 36277 |         | 3/8     | 240    | 40     | 250 |

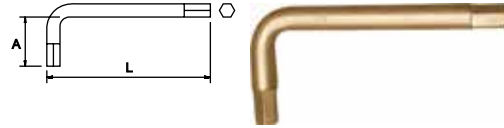
■ **LLAVES HEXAGONALES / HEXAGONAL KEYS / CLÉS MÂLES / INBUSSCHLÜSSEL / CHIAVI ESAGONALI / CHAVES HEXAGONAIS / ШЕСТИГРАННЫЕ КЛЮЧИ**

■ **STANDARD**

■ **MM**



■ **INCH**



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | A (mm) | g    |     |
|-------|-------|-------|---------|-------|--------|--------|------|-----|
| 72239 |       | 72238 |         | 1,5   | 47     | 14     | 6,5  |     |
| 70391 |       | 71287 |         | 2     | 52     | 16     |      |     |
| 72929 |       | 72928 |         | 2,5   | 60     | 18     |      | 8,5 |
| 70392 |       | 71288 |         | 3     | 65     | 20     |      | 11  |
| 70393 |       | 71289 |         | 4     | 75     | 25     | 14   |     |
| 70394 |       | 71290 |         | 5     | 85     | 28     | 41   |     |
| 74357 |       | 74358 |         | 5,5   |        | 26     |      |     |
| 70395 |       | 71291 |         | 6     | 95     | 32     | 43   |     |
| 70396 |       | 71292 |         | 7     | 100    | 34     |      |     |
| 70397 |       | 71293 |         | 8     | 110    | 36     | 55   |     |
| 70398 |       | 71294 |         | 9     | 115    | 38     |      |     |
| 70399 |       | 71295 |         | 10    | 120    | 40     | 75   |     |
| 72241 |       | 72240 |         | 11    | 130    | 42     | 95   |     |
| 70400 |       | 71296 |         | 12    | 140    | 45     | 120  |     |
| 72243 |       | 72242 |         | 13    | 145    | 50     | 152  |     |
| 70401 |       | 71297 |         | 14    | 155    | 55     | 190  |     |
| 74629 |       | 74634 |         | 15    | 160    |        | 230  |     |
| 72931 | Cu-Be | 72930 | Al-Bron | 16    | 170    | 60     | 270  |     |
| 70402 |       | 71298 |         | 17    | 175    | 65     | 320  |     |
| 72245 |       | 72244 |         | 18    | 190    |        | 380  |     |
| 70403 |       | 71299 |         | 19    | 200    | 70     | 450  |     |
| 74630 |       | 74631 |         | 20    | 205    | 75     | 540  |     |
| 74632 |       | 74633 |         | 21    | 215    |        | 600  |     |
| 70404 |       | 71300 |         | 22    | 220    | 80     | 690  |     |
| 75228 |       | 75229 |         | 23    | 240    | 85     | 790  |     |
| 70405 |       | 71301 |         | 24    | 250    | 90     | 910  |     |
| 75230 |       | 75231 |         | 25    | 255    | 95     | 1020 |     |
| 75232 |       | 75233 |         | 26    | 265    |        | 1150 |     |
| 70406 |       | 71302 |         | 27    | 275    | 100    | 1300 |     |
| 75234 |       | 75235 |         | 28    | 290    | 110    | 1500 |     |
| 75236 |       | 75237 |         | 29    | 300    | 115    | 1600 |     |
| 75238 |       | 75239 |         | 30    | 310    | 120    | 1800 |     |
| 70407 |       | 71303 |         | 32    | 350    | 125    | 2300 |     |
| 70408 |       | 71304 |         | 36    | 400    | 140    | 3200 |     |
| 70409 |       | 71305 |         | 41    | 430    | 150    | 4600 |     |

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | A (mm) | g    |     |
|-------|-------|-------|---------|---------|--------|--------|------|-----|
| 75537 |       | 75538 |         | 1/16    | 47     | 14     | 6,5  |     |
| 72933 |       | 72932 |         | 5/64    | 52     | 16     |      |     |
| 72935 |       | 72934 |         | 3/32    | 58     | 18     |      | 8,5 |
| 75539 |       | 75540 |         | 7/64    | 66     | 20     |      | 11  |
| 71306 |       | 71330 |         | 1/8     |        |        | 14   |     |
| 71307 |       | 71331 |         | 9/64    | 75     | 25     |      |     |
| 71308 |       | 71332 |         | 5/32    |        |        | 41   |     |
| 71309 |       | 71333 |         | 3/16    | 85     | 28     |      |     |
| 71310 |       | 71334 |         | 7/32    | 95     | 32     | 43   |     |
| 71311 |       | 71335 |         | 1/4     |        |        |      |     |
| 75541 |       | 75542 |         | 9/32    | 100    | 34     | 43   |     |
| 71312 |       | 71336 |         | 5/16    |        |        | 36   |     |
| 75543 |       | 75544 |         | 11/32   | 110    | 36     |      |     |
| 71313 |       | 71337 |         | 3/8     | 115    | 38     | 55   |     |
| 71314 |       | 71338 |         | 7/16    | 130    | 42     | 95   |     |
| 71315 |       | 71339 |         | 1/2     | 140    | 45     | 120  |     |
| 71316 | Cu-Be | 71340 | Al-Bron | 9/16    | 155    | 55     | 190  |     |
| 71317 |       | 71341 |         | 5/8     | 160    | 60     | 230  |     |
| 71318 |       | 71342 |         | 11/16   | 175    | 65     | 320  |     |
| 71319 |       | 71343 |         | 3/4     | 200    | 70     | 450  |     |
| 75545 |       | 75546 |         | 13/16   | 210    | 75     | 540  |     |
| 71320 |       | 71344 |         | 7/8     | 220    | 80     | 690  |     |
| 75547 |       | 75548 |         | 15/16   | 240    | 85     | 790  |     |
| 71321 |       | 71345 |         | 1       | 255    |        | 1020 |     |
| 71322 |       | 71346 |         | 1.1/16  | 265    | 95     | 1200 |     |
| 71323 |       | 71347 |         | 1.1/8   | 290    | 110    | 1500 |     |
| 75549 |       | 75550 |         | 1.3/16  | 310    | 120    | 1800 |     |
| 71324 |       | 71348 |         | 1.1/4   | 350    | 125    | 2300 |     |
| 71325 |       | 71349 |         | 1.5/16  |        |        | 3200 |     |
| 71326 |       | 71350 |         | 1.3/8   | 400    | 140    |      |     |
| 71327 |       | 71351 |         | 1.7/16  |        |        | 4600 |     |
| 71328 |       | 71352 |         | 1.1/2   | 430    | 150    |      |     |
| 71329 |       | 71353 |         | 1.5/8   |        |        |      |     |

■ **SET**



| COD.  | MAT.    | PCS. | COD. PCS.                                                                     | mm                         | g   |
|-------|---------|------|-------------------------------------------------------------------------------|----------------------------|-----|
| 74352 | Cu-Be   | 10   | 72239, 70391, 72929,<br>70392, 70393, 70394,<br>74357, 70395, 70397,<br>70399 | 1,5-2-2,5-3-4-5-5,5-6-8-10 | 370 |
| 74353 | Al-Bron |      | 72238, 71287, 72928,<br>71288, 71289, 71290,<br>74358, 71291, 71293,<br>71295 |                            |     |

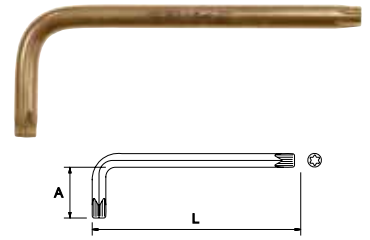


**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза



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 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
 Si vous ne trouvez pas l'article que vous desirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)

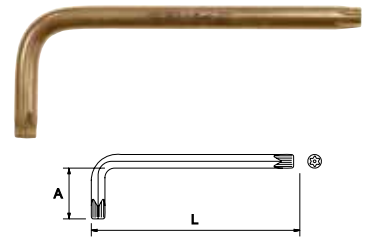
**TORX®\***

| COD.  | MAT.  | COD.  | MAT.    |  | L (mm) | A (mm) |  |    |    |
|-------|-------|-------|---------|-----------------------------------------------------------------------------------|--------|--------|-------------------------------------------------------------------------------------|----|----|
| 35830 | Cu-Be | 35831 | Al-Bron | T6                                                                                | 42     | 16     | 8                                                                                   |    |    |
| 35832 |       | 35833 |         | T7                                                                                | 51     |        |                                                                                     |    |    |
| 35834 |       | 35835 |         | T8                                                                                |        |        |                                                                                     |    |    |
| 35836 |       | 35837 |         | T9                                                                                |        |        |                                                                                     |    |    |
| 76134 |       | 76135 |         | T10                                                                               |        |        |                                                                                     | 17 |    |
| 76136 |       | 76137 |         | T15                                                                               |        |        |                                                                                     | 18 |    |
| 76138 |       | 76139 |         | T20                                                                               |        |        |                                                                                     | 13 |    |
| 76140 |       | 76141 |         | T25                                                                               |        |        |                                                                                     | 17 |    |
| 76133 |       | 76144 |         | T27                                                                               |        |        |                                                                                     | 20 |    |
| 76142 |       | 76143 |         | T30                                                                               |        |        |                                                                                     | 30 |    |
| 36428 |       | 36429 |         | T40                                                                               |        |        |                                                                                     | 26 | 40 |





**TAMPER TORX**

| COD.  | MAT.  | COD.  | MAT.    |  | L (mm) | A (mm) |  |    |
|-------|-------|-------|---------|-----------------------------------------------------------------------------------|--------|--------|-------------------------------------------------------------------------------------|----|
| 36430 | Cu-Be | 36431 | Al-Bron | TT8                                                                               | 42     | 16     | 6,5                                                                                 |    |
| 36432 |       | 36433 |         | TT9                                                                               | 51     | 17     |                                                                                     |    |
| 35774 |       | 35775 |         | TT10                                                                              |        |        |                                                                                     |    |
| 35776 |       | 35777 |         | TT15                                                                              |        |        | 18                                                                                  | 9  |
| 35778 |       | 35779 |         | TT20                                                                              |        |        | 12                                                                                  |    |
| 35780 |       | 35781 |         | TT25                                                                              |        |        | 15                                                                                  |    |
| 35782 |       | 35783 |         | TT27                                                                              |        |        | 18                                                                                  |    |
| 35784 |       | 35785 |         | TT30                                                                              |        |        | 28                                                                                  |    |
| 35786 |       | 35787 |         | TT40                                                                              |        |        | 26                                                                                  | 38 |



**LLAVE DINAMOMÉTRICA / TORQUE WRENCH / CLÉ DYNAMOMETRIQUE / DREHMOMENTSCHLÜSSEL / CHIAVE DINAMOMETRICA / CHAVE DINAMOMETRICA / ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ**



| COD.  | MAT.  | COD.  | MAT.    |  | L (mm) | N.m |  |
|-------|-------|-------|---------|-------------------------------------------------------------------------------------|--------|-----|---------------------------------------------------------------------------------------|
| 72171 | Cu-Be | 72174 | Al-Bron | 3/8                                                                                 | 310    | 100 | 600                                                                                   |
| 72172 |       | 72175 |         | 1/2                                                                                 | 490    | 300 | 1250                                                                                  |
| 72173 |       | 72176 |         | 3/4                                                                                 | 560    | 500 | 1700                                                                                  |



12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Precisión / Accuracy / Précision 6%

| COD.  | MAT.  | COD.  | MAT.    |  | L (mm) | N.m     |  |
|-------|-------|-------|---------|-------------------------------------------------------------------------------------|--------|---------|---------------------------------------------------------------------------------------|
| 74810 | Cu-Be | 74806 | Al-Bron | 3/8                                                                                 | 360    | 10-50   | 950                                                                                   |
| 74821 |       | 74871 |         | 500                                                                                 | 40-200 | 1300    |                                                                                       |
| 74823 |       | 74874 |         | 1/2                                                                                 | 600    | 60-260  | 1450                                                                                  |
| 75267 |       | 75274 |         | 3/4                                                                                 | 1050   | 150-670 | 5700                                                                                  |
| 74879 |       | 74884 |         | 1                                                                                   | 1250   | 200-900 | 10000                                                                                 |



12M

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

Precisión / Accuracy / Précision 6%

\*Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pout vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)

Cu-Be Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий

Al-Bron Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Аллюминий Бронза

12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

■ **LLAVES DE VASO / SOCKET WRENCHES / DOUILLES / STECKSCHLÜSSEL / BUSSOLE / CHAVES DE CAIXA / ГОЛОВКИ**

■ 1/4"

■ STANDARD

■ MM

■ 6 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g  |
|-------|-------|-------|---------|-------|--------|----|----|
| 78981 |       | 78982 |         | 3     |        |    |    |
| 71909 |       | 71930 |         | 4     |        |    |    |
| 75562 |       | 75563 |         | 4,5   |        |    |    |
| 71910 |       | 71931 |         | 5     |        |    | 10 |
| 75551 |       | 75552 |         | 5,5   |        |    |    |
| 71911 |       | 71932 |         | 6     | 25     |    |    |
| 71912 |       | 71933 |         | 7     |        |    | 12 |
| 71913 |       | 71934 |         | 8     |        |    |    |
| 71914 |       | 71935 |         | 9     |        |    |    |
| 71915 | Cu-Be | 71936 | Al-Bron | 10    |        | 6  | 15 |
| 71916 |       | 71937 |         | 11    |        |    | 20 |
| 71917 |       | 71938 |         | 12    |        |    |    |
| 71918 |       | 71939 |         | 13    | 26     |    |    |
| 71919 |       | 71940 |         | 14    |        |    | 25 |
| 75564 |       | 75565 |         | 15    |        |    |    |
| 75566 |       | 75567 |         | 16    |        |    | 30 |
| 75568 |       | 75569 |         | 17    | 27     |    |    |
| 75570 |       | 75571 |         | 18    |        |    |    |
| 75572 |       | 75573 |         | 19    |        |    | 35 |

■ 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g  |
|-------|-------|-------|---------|-------|--------|----|----|
| 74406 |       | 74427 |         | 4     |        |    |    |
| 75576 |       | 75577 |         | 4,5   |        |    |    |
| 74407 |       | 74428 |         | 5     |        |    | 10 |
| 75578 |       | 75579 |         | 5,5   |        |    |    |
| 74408 |       | 74429 |         | 6     | 25     |    |    |
| 74409 |       | 74430 |         | 7     |        |    | 12 |
| 74410 |       | 74431 |         | 8     |        |    |    |
| 74411 |       | 74432 |         | 9     |        |    |    |
| 74412 | Cu-Be | 74433 | Al-Bron | 10    |        | 12 | 15 |
| 74413 |       | 74434 |         | 11    |        |    | 20 |
| 74414 |       | 74435 |         | 12    |        |    |    |
| 74415 |       | 74436 |         | 13    | 26     |    |    |
| 74416 |       | 74437 |         | 14    |        |    | 25 |
| 75580 |       | 75581 |         | 15    |        |    |    |
| 75582 |       | 75583 |         | 16    |        |    | 30 |
| 75584 |       | 75585 |         | 17    | 27     |    |    |
| 75586 |       | 75587 |         | 18    |        |    |    |
| 75588 |       | 75589 |         | 19    |        |    | 35 |

■ INCH

■ 6 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g  |
|-------|-------|-------|---------|---------|--------|----|----|
| 75574 |       | 75575 |         | 5/32    |        |    |    |
| 71920 |       | 71941 |         | 3/16    |        |    |    |
| 71921 |       | 71942 |         | 7/32    | 25     |    | 10 |
| 71922 |       | 71943 |         | 1/4     |        |    |    |
| 71923 |       | 71944 |         | 9/32    |        |    |    |
| 71924 | Cu-Be | 71945 | Al-Bron | 5/16    |        | 6  | 15 |
| 71925 |       | 71946 |         | 11/32   |        |    |    |
| 71926 |       | 71947 |         | 3/8     |        |    | 20 |
| 71927 |       | 71948 |         | 7/16    | 28     |    |    |
| 71928 |       | 71949 |         | 1/2     |        |    |    |
| 71929 |       | 71950 |         | 9/16    |        |    | 25 |

■ 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g  |
|-------|-------|-------|---------|---------|--------|----|----|
| 75590 |       | 75591 |         | 5/32    |        |    |    |
| 74417 |       | 74438 |         | 3/16    |        |    |    |
| 74418 |       | 74439 |         | 7/32    | 25     |    | 10 |
| 74419 |       | 74440 |         | 1/4     |        |    |    |
| 74420 |       | 74441 |         | 9/32    |        |    |    |
| 74421 | Cu-Be | 74442 | Al-Bron | 5/16    |        | 12 | 15 |
| 74422 |       | 74443 |         | 11/32   |        |    |    |
| 74423 |       | 74444 |         | 3/8     |        |    | 20 |
| 74424 |       | 74445 |         | 7/16    | 28     |    |    |
| 74425 |       | 74446 |         | 1/2     |        |    |    |
| 74426 |       | 74447 |         | 9/16    |        |    | 25 |

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

■ 1/4"

■ SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

■ MM

■ 6 PT.

■ 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g  |
|-------|-------|-------|---------|-------|--------|----|----|
| 36725 |       | 36726 |         | 3     |        |    |    |
| 78741 |       | 78742 |         | 4     |        |    |    |
| 78743 |       | 78744 |         | 4,5   |        |    |    |
| 78745 |       | 78746 |         | 5     |        | 38 |    |
| 78747 |       | 78748 |         | 5,5   |        |    |    |
| 78749 |       | 78750 |         | 6     |        |    |    |
| 78751 |       | 78752 |         | 7     |        |    |    |
| 78753 |       | 78754 |         | 8     |        | 40 |    |
| 78755 |       | 78756 |         | 9     |        | 44 |    |
| 78757 | Cu-Be | 78758 | Al-Bron | 10    | 50     | 6  | 47 |
| 78759 |       | 78760 |         | 11    |        |    |    |
| 78761 |       | 78762 |         | 12    |        | 50 |    |
| 78763 |       | 78764 |         | 13    |        |    |    |
| 78765 |       | 78766 |         | 14    |        | 55 |    |
| 78767 |       | 78768 |         | 15    |        | 60 |    |
| 78769 |       | 78770 |         | 16    |        | 70 |    |
| 78771 |       | 78772 |         | 17    |        | 80 |    |
| 78773 |       | 78774 |         | 18    |        | 85 |    |
| 78775 |       | 78776 |         | 19    |        | 95 |    |

| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g  |
|-------|-------|-------|---------|-------|--------|----|----|
| 78799 |       | 78800 |         | 4     |        |    |    |
| 78801 |       | 78802 |         | 4,5   |        |    |    |
| 78803 |       | 78804 |         | 5     |        |    |    |
| 78805 |       | 78806 |         | 5,5   |        | 38 |    |
| 78807 |       | 78808 |         | 6     |        |    |    |
| 78809 |       | 78810 |         | 7     |        |    |    |
| 78811 |       | 78812 |         | 8     |        | 40 |    |
| 78813 |       | 78814 |         | 9     |        | 44 |    |
| 78815 | Cu-Be | 78816 | Al-Bron | 10    | 50     | 12 | 47 |
| 78817 |       | 78818 |         | 11    |        |    |    |
| 78819 |       | 78820 |         | 12    |        | 50 |    |
| 78821 |       | 78822 |         | 13    |        |    |    |
| 78823 |       | 78824 |         | 14    |        | 55 |    |
| 78825 |       | 78826 |         | 15    |        | 60 |    |
| 78827 |       | 78828 |         | 16    |        | 70 |    |
| 78829 |       | 78830 |         | 17    |        | 80 |    |
| 78831 |       | 78832 |         | 18    |        | 85 |    |
| 78833 |       | 78834 |         | 19    |        | 95 |    |

■ INCH

■ 6 PT.

■ 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g  |
|-------|-------|-------|---------|---------|--------|----|----|
| 78777 |       | 78778 |         | 5/32    |        |    |    |
| 78779 |       | 78780 |         | 3/16    |        |    |    |
| 78781 |       | 78782 |         | 7/32    |        | 38 |    |
| 78783 |       | 78784 |         | 1/4     |        |    |    |
| 78785 |       | 78786 |         | 9/32    |        |    |    |
| 78787 | Cu-Be | 78788 | Al-Bron | 5/16    | 50     | 6  | 40 |
| 78789 |       | 78790 |         | 11/32   |        | 44 |    |
| 78791 |       | 78792 |         | 3/8     |        | 47 |    |
| 78793 |       | 78794 |         | 7/16    |        | 50 |    |
| 78795 |       | 78796 |         | 1/2     |        |    |    |
| 78797 |       | 78798 |         | 9/16    |        | 55 |    |

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g  |
|-------|-------|-------|---------|---------|--------|----|----|
| 78835 |       | 78836 |         | 5/32    |        |    |    |
| 78837 |       | 78838 |         | 3/16    |        |    |    |
| 78839 |       | 78840 |         | 7/32    |        | 38 |    |
| 78841 |       | 78842 |         | 1/4     |        |    |    |
| 78843 |       | 78844 |         | 9/32    |        |    |    |
| 78845 | Cu-Be | 78846 | Al-Bron | 5/16    | 50     | 12 | 40 |
| 78847 |       | 78848 |         | 11/32   |        | 44 |    |
| 78849 |       | 78850 |         | 3/8     |        | 47 |    |
| 78851 |       | 78852 |         | 7/16    |        | 50 |    |
| 78853 |       | 78854 |         | 1/2     |        |    |    |
| 78855 |       | 78856 |         | 9/16    |        | 55 |    |

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Аллюминий Бронза



## 1/4"

**LLAVE DE CARRACA REVERSIBLE / REVERSIBLE RATCHET HANDLE / CLÉ À CLIQUET RÉVERSIBLE / UMSCHALTKNARRE / CHIAVE A CRICCO REVERSIBILE / ROQUETE REVERSIVEL / РЕВЕРСИВНАЯ ТРЕЩЕТКА**

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | g   |
|-------|-------|-------|---------|---------|--------|-----|
| 71955 | Cu-Be | 71956 | Al-Bron | 1/4     | 130    | 400 |


**ALARGADERA / EXTENSION / RALLONGE / VERLÄNGERUNG / PROLUNGA / EXTENÇÃO / УДЛИНИТЕЛЬ**

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (inch) | g   |
|-------|-------|-------|---------|---------|----------|-----|
| 71959 | Cu-Be | 71961 | Al-Bron | 1/4     | 4        | 200 |
| 71960 |       | 71962 |         |         | 8        | 400 |


**CARRACA MACHO-HEMBRA / MALE-FEMALE RATCHET / CLIQUET MÂLE-FEMELLE / RATSCHÉ DOPELT FUNKTION / CRICCO MASCHIO-FEMMINA / ROQUETE MACHO-FÊMEA / ТРЕЩЕТКА ПАПА-МАМА**

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | g   |
|-------|-------|-------|---------|---------|--------|-----|
| 73722 | Cu-Be | 73723 | Al-Bron | 1/4     | 200    | 350 |


**MANGO CORREDIZO EN "T" / SLIDING "T" HANDLE / POIGNÉE COULISSANTE / T-GLEITGRIF / ASTA CON QUADRO SCORREVOLE "T" / CABO "T" CORREDIÇO / Т-ОБРАЗНАЯ С ПЛАВАЮЩЕЙ РУЧКОЙ**

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (inch) | g   |
|-------|-------|-------|---------|---------|----------|-----|
| 71957 | Cu-Be | 71958 | Al-Bron | 1/4     | 10       | 250 |


**ARTICULACIÓN UNIVERSAL / UNIVERSAL JOINT / CARDAN UNIVERSEL / KARDANGELNENK / SNODO CARDANICO / CARDAN UNIVERSAL / КАРДАННОЕ СОЕДИНЕНИЕ**

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | g   |
|-------|-------|-------|---------|---------|--------|-----|
| 71953 | Cu-Be | 71954 | Al-Bron | 1/4     | 55     | 150 |


**ADAPTADOR / ADAPTER / ADAPTATEUR / VERBINDUNGSTEILE / ADATTATORE / PEÇA DE CONEXÃO / АДАПТЕР**

| COD.  | MAT.  | COD.  | MAT.    | AF inch | AF inch | g   |
|-------|-------|-------|---------|---------|---------|-----|
| 75718 | Cu-Be | 75719 | Al-Bron | 1/4-3/8 |         | 20  |
| 71951 |       | 71952 |         | 1/4-1/2 |         | 100 |


**PUNTA HEXAGONAL CON VASO / HEX BIT SOCKET / EMBOUT HEXAGONAL À DOUILLE / HEX SCHRAUBENDREHEREINSATZ / PUNTA ESAGONALE CON BUSSOLA / PONTA HEXAGONAL COM CHAVE DE CAIXA / ШЕСТИГРАННАЯ ГОЛОВКА**

| COD.  | MAT.  | COD.  | MAT.    | AF inch | AF mm | L (mm) | g  |
|-------|-------|-------|---------|---------|-------|--------|----|
| 73692 | Cu-Be | 73693 | Al-Bron | 1/4     | 3     | 55     | 20 |
| 73694 |       | 73695 |         |         | 4     |        |    |
| 73696 |       | 73697 |         |         | 5     |        |    |
| 73698 |       | 73699 |         |         | 6     |        |    |
| 73700 |       | 73701 |         |         | 7     |        |    |
| 73702 |       | 73703 |         |         | 8     | 65     | 40 |
| 73704 |       | 73705 |         |         | 9     |        |    |
| 73706 |       | 73707 |         |         | 10    |        |    |



37

ANTICHISPA  
NON-SPARKING  
ANTIDÉFLAGRANT  
FUNKENFREI  
ANTISCINTILLA  
ANTI-DEFLAGRANTE  
ИСКРБЕЗОПАСНЫЙ



1/4"

PUNTA HEXAGONAL CON VASO SERIE LARGA / HEX BIT SOCKET LARGE SERIE / EMBOUT HEXAGONAL À DOUILLE LONGUES SÉRIES / SECHSKANT-BIT-STECKSCHLÜSSEL GROSSE SERIE / PUNTA ESAGONALE CON BUSSOLA SERIE LUNGA / PONTA HEXAGONAL COM CHAVE DE CAIXA LONGA / ГОЛОВКА-БИТ ШЕСТИГРАННАЯ ВЫСОКАЯ

| COD.  | MAT.  | COD.  | MAT.    | AF inch | AF mm | L (mm) | g  |
|-------|-------|-------|---------|---------|-------|--------|----|
| 36610 | Cu-Be | 36618 | Al-Bron | 1/4"    | 3     | 55     | 21 |
| 36611 |       | 36619 |         |         | 4     |        | 28 |
| 36612 |       | 36620 |         |         | 5     |        | 35 |
| 36613 |       | 36621 |         |         | 6     |        | 44 |
| 36614 |       | 36622 |         |         | 7     | 50     |    |
| 36615 |       | 36623 |         |         | 8     | 80     |    |
| 36616 |       | 36624 |         |         | 9     | 110    |    |
| 36617 |       | 36625 |         |         | 10    |        |    |



DESTORNILLADOR PORTAVASOS / SOCKET HOLDER / TOURNEVIS PORTE DOUILLE / SCHRAUBENDREHERHALTER / CACCIAVITI PORTABUSSOLE / CHAVE PORTA CHAVES DE CAIXA / ДЕРЖАТЕЛЬ ГОЛОВOK

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | mm | g  |
|-------|-------|-------|---------|---------|--------|----|----|
| 73731 | Cu-Be | 73732 | Al-Bron | 1/4     | 195    | 55 | 60 |



BIMAT

EGGA Master  
ART IN INNOVATION

Cu-Be Cobre berilio / Beryllium copper / Cuiivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Аллюминий Бронза

# 37

**ANTICHISPA  
NON-SPARKING  
ANTIDÉFLAGRANT  
FUNKENFREI  
ANTISCINTILLA  
ANTI-DEFLAGRANTE  
ИСКРОБЕЗОПАСНЫЙ**



■ 3/8"

■ STANDARD

■ MM

■ 6 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g |    |    |
|-------|-------|-------|---------|-------|--------|----|---|----|----|
| 75592 |       | 75593 |         | 5     | 28     | 20 |   |    |    |
| 75594 |       | 75595 |         | 5,5   |        |    |   |    |    |
| 75596 |       | 75597 |         | 6     |        |    |   |    |    |
| 75598 |       | 75599 |         | 7     |        |    |   |    |    |
| 75600 |       | 75601 |         | 8     |        |    |   |    |    |
| 75602 |       | 75603 |         | 9     |        |    |   |    |    |
| 75604 |       | 75605 |         | 10    |        |    |   |    |    |
| 75606 | Cu-Be | 75607 | Al-Bron | 11    |        |    |   | 6  | 35 |
| 75608 |       | 75609 |         | 12    |        |    |   |    |    |
| 75610 |       | 75611 |         | 13    |        |    |   | 32 | 40 |
| 75612 |       | 75613 |         | 14    |        |    |   |    |    |
| 75614 |       | 75615 |         | 15    |        |    |   |    |    |
| 75616 |       | 75617 |         | 16    |        |    |   |    |    |
| 75618 |       | 75619 |         | 17    |        |    |   |    |    |
| 75620 |       | 75621 |         | 19    | 55     |    |   |    |    |
| 75622 |       | 75623 |         | 20    |        |    |   |    |    |

■ 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g |    |    |
|-------|-------|-------|---------|-------|--------|----|---|----|----|
| 75646 |       | 75647 |         | 5     | 28     | 20 |   |    |    |
| 75648 |       | 75649 |         | 5,5   |        |    |   |    |    |
| 75650 |       | 75651 |         | 6     |        |    |   |    |    |
| 75652 |       | 75653 |         | 7     |        |    |   |    |    |
| 75654 |       | 75655 |         | 8     |        |    |   |    |    |
| 75656 |       | 75657 |         | 9     |        |    |   |    |    |
| 75658 |       | 75659 |         | 10    |        |    |   |    |    |
| 75660 | Cu-Be | 75661 | Al-Bron | 11    |        |    |   | 12 | 35 |
| 75662 |       | 75663 |         | 12    |        |    |   |    |    |
| 75664 |       | 75665 |         | 13    |        |    |   | 32 | 40 |
| 75666 |       | 75667 |         | 14    |        |    |   |    |    |
| 75668 |       | 75669 |         | 15    |        |    |   |    |    |
| 75670 |       | 75671 |         | 16    |        |    |   |    |    |
| 75672 |       | 75673 |         | 17    |        |    |   |    |    |
| 75674 |       | 75675 |         | 19    | 55     |    |   |    |    |
| 75676 |       | 75677 |         | 20    |        |    |   |    |    |

■ INCH

■ 6 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g |    |    |
|-------|-------|-------|---------|---------|--------|----|---|----|----|
| 75624 |       | 75625 |         | 5/16    | 32     | 20 |   |    |    |
| 75626 |       | 75627 |         | 3/8     |        |    |   |    |    |
| 75628 |       | 75629 |         | 7/16    |        |    |   |    |    |
| 75630 |       | 75631 |         | 1/2     |        |    |   |    |    |
| 75632 |       | 75633 |         | 9/16    |        |    |   |    |    |
| 75634 | Cu-Be | 75635 | Al-Bron | 5/8     |        |    |   | 6  | 65 |
| 75636 |       | 75637 |         | 11/16   |        |    |   |    |    |
| 75638 |       | 75639 |         | 3/4     |        |    |   | 35 | 75 |
| 75640 |       | 75641 |         | 13/16   |        |    |   |    |    |
| 75642 |       | 75643 |         | 7/8     |        |    |   |    |    |
| 75644 |       | 75645 |         | 15/16   | 85     |    |   |    |    |
|       |       |       |         |         |        |    |   |    |    |

■ 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g |    |    |
|-------|-------|-------|---------|---------|--------|----|---|----|----|
| 75678 |       | 75679 |         | 5/16    | 32     | 20 |   |    |    |
| 75680 |       | 75681 |         | 3/8     |        |    |   |    |    |
| 75682 |       | 75683 |         | 7/16    |        |    |   |    |    |
| 75684 |       | 75685 |         | 1/2     |        |    |   |    |    |
| 75686 |       | 75687 |         | 9/16    |        |    |   |    |    |
| 75688 | Cu-Be | 75689 | Al-Bron | 5/8     |        |    |   | 12 | 65 |
| 75690 |       | 75691 |         | 11/16   |        |    |   |    |    |
| 75692 |       | 75693 |         | 3/4     |        |    |   | 35 | 75 |
| 75694 |       | 75695 |         | 13/16   |        |    |   |    |    |
| 75696 |       | 75697 |         | 7/8     |        |    |   |    |    |
| 75698 |       | 75699 |         | 15/16   | 85     |    |   |    |    |
|       |       |       |         |         |        |    |   |    |    |

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

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1095

■ 3/8"

■ SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

■ MM

■ 6 PT.

■ 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g   |
|-------|-------|-------|---------|-------|--------|----|-----|
| 78857 |       | 78858 |         | 5     |        |    |     |
| 78859 |       | 78860 |         | 5,5   |        |    |     |
| 78861 |       | 78862 |         | 6     |        |    |     |
| 78863 |       | 78864 |         | 7     |        |    | 85  |
| 78865 |       | 78866 |         | 8     |        |    |     |
| 78867 |       | 78868 |         | 9     |        |    |     |
| 78869 |       | 78870 |         | 10    |        |    | 90  |
| 78871 | Cu-Be | 78872 | Al-Bron | 11    | 60     | 6  | 95  |
| 78873 |       | 78874 |         | 12    |        |    | 100 |
| 75966 |       | 75967 |         | 13    |        |    | 105 |
| 78875 |       | 78876 |         | 14    |        |    |     |
| 78877 |       | 78878 |         | 15    |        |    | 110 |
| 78879 |       | 78880 |         | 16    |        |    | 115 |
| 78881 |       | 78882 |         | 17    |        |    | 120 |
| 78883 |       | 78884 |         | 19    |        |    | 130 |
| 78885 |       | 78886 |         | 20    |        |    | 135 |

| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g   |
|-------|-------|-------|---------|-------|--------|----|-----|
| 78909 |       | 78910 |         | 5     |        |    |     |
| 78911 |       | 78912 |         | 5,5   |        |    |     |
| 78913 |       | 78914 |         | 6     |        |    |     |
| 78915 |       | 78916 |         | 7     |        |    | 85  |
| 78917 |       | 78918 |         | 8     |        |    |     |
| 78919 |       | 78920 |         | 9     |        |    |     |
| 78921 |       | 78922 |         | 10    |        |    | 90  |
| 78923 | Cu-Be | 78924 | Al-Bron | 11    | 60     | 12 | 95  |
| 78925 |       | 78926 |         | 12    |        |    | 100 |
| 78927 |       | 78928 |         | 13    |        |    | 105 |
| 78929 |       | 78930 |         | 14    |        |    |     |
| 78931 |       | 78932 |         | 15    |        |    | 110 |
| 78933 |       | 78934 |         | 16    |        |    | 115 |
| 78935 |       | 78936 |         | 17    |        |    | 120 |
| 78937 |       | 78938 |         | 19    |        |    | 130 |
| 78939 |       | 78940 |         | 20    |        |    | 135 |

■ INCH

■ 6 PT.

■ 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g   |
|-------|-------|-------|---------|---------|--------|----|-----|
| 78887 |       | 78888 |         | 5/16    |        |    | 85  |
| 78889 |       | 78890 |         | 3/8     |        |    | 100 |
| 78891 |       | 78892 |         | 7/16    |        |    |     |
| 78893 |       | 78894 |         | 1/2     |        |    | 105 |
| 78895 |       | 78896 |         | 9/16    |        |    |     |
| 78897 | Cu-Be | 78898 | Al-Bron | 5/8     | 60     | 6  | 115 |
| 78899 |       | 78900 |         | 11/16   |        |    | 125 |
| 78901 |       | 78902 |         | 3/4     |        |    | 130 |
| 78903 |       | 78904 |         | 13/16   |        |    | 145 |
| 78905 |       | 78906 |         | 7/8     |        |    | 155 |
| 78907 |       | 78908 |         | 15/16   |        |    | 190 |

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g   |
|-------|-------|-------|---------|---------|--------|----|-----|
| 78941 |       | 78942 |         | 5/16    |        |    | 85  |
| 78943 |       | 78944 |         | 3/8     |        |    | 100 |
| 78945 |       | 78946 |         | 7/16    |        |    |     |
| 78947 |       | 78948 |         | 1/2     |        |    | 105 |
| 78949 |       | 78950 |         | 9/16    |        |    |     |
| 78951 | Cu-Be | 78952 | Al-Bron | 5/8     | 60     | 12 | 115 |
| 78953 |       | 78954 |         | 11/16   |        |    | 125 |
| 78955 |       | 78956 |         | 3/4     |        |    | 130 |
| 78957 |       | 78958 |         | 13/16   |        |    | 145 |
| 78959 |       | 78960 |         | 7/8     |        |    | 155 |
| 78961 |       | 78962 |         | 15/16   |        |    | 190 |

## 3/8"

**LLAVE DE CARRACA REVERSIBLE / REVERSIBLE RATCHET HANDLE / CLÉ À CLIQUET RÉVERSIBLE / UMSCHALTKNARRE / CHIAVE A CRICCO REVERSIBILE / ROQUETE REVERSIVEL / РЕВЕРСИВНАЯ ТРЕЩЕТКА**

| COD.  | MAT.  | COD.  | MAT.    | AF $\frac{1}{8}$ inch | L (mm) | g   |
|-------|-------|-------|---------|-----------------------|--------|-----|
| 75700 | Cu-Be | 75701 | Al-Bron | 3/8                   | 200    | 400 |


**ALARGADERA / EXTENSION / RALLONGE / VERLÄNGERUNG / PROLUNGA / EXTENÇÃO / УДЛИНИТЕЛЬ**

| COD.  | MAT.  | COD.  | MAT.    | AF $\frac{1}{8}$ inch | L (inch) | g   |
|-------|-------|-------|---------|-----------------------|----------|-----|
| 75702 | Cu-Be | 75703 | Al-Bron | 3/8                   | 8        | 400 |
| 75704 |       | 75705 |         |                       | 10       | 500 |


**CARRACA MACHO-HEMBRA / MALE-FEMALE RATCHET / CLIQUET MÂLE-FEMELLE / RATSCHÉ DOPELT FUNKTION / CRICCO MASCHIO-FEMMINA / ROQUETE MACHO-FÊMEA / ТРЕЩЕТКА ПАПА-МАМА**

| COD.  | MAT.  | COD.  | MAT.    | AF $\frac{1}{8}$ inch | L (mm) | g   |
|-------|-------|-------|---------|-----------------------|--------|-----|
| 75706 | Cu-Be | 75707 | Al-Bron | 3/8                   | 200    | 350 |


**MANGO CORREDIZO EN "T" / SLIDING "T" HANDLE / POIGNÉE COULISSANTE / T-GLEITGRIF / ASTA CON QUADRO SCORREVOLE "T" / CABO "T" CORREDIÇO / Т-ОБРАЗНАЯ С ПЛАВАЮЩЕЙ РУЧКОЙ**

| COD.  | MAT.  | COD.  | MAT.    | AF $\frac{1}{8}$ inch | L (inch) | g   |
|-------|-------|-------|---------|-----------------------|----------|-----|
| 75708 | Cu-Be | 75709 | Al-Bron | 3/8                   | 10       | 250 |


**MANGO ARTICULADO / SWIVEL HANDLE / MANCHE ARTICULÉ / GELENKGRIF / MANICO ARTICOLATO / CABO ARTICULADO / ГИБКАЯ РУКОЯТКА**

| COD.  | MAT.  | COD.  | MAT.    | AF $\frac{1}{8}$ inch | L (mm) | g   |
|-------|-------|-------|---------|-----------------------|--------|-----|
| 75710 | Cu-Be | 75711 | Al-Bron | 3/8                   | 175    | 220 |


**MANGO ACODADO / OFFSET HANDLE / MANCHE CONTRE COUDÉ / GEKRÖPFTE HANDGRIF / DOPPIO MANICO / CABO DESALINHADO / ИЗОГНУТАЯ РУКОЯТКА**

| COD.  | MAT.  | COD.  | MAT.    | AF $\frac{1}{8}$ inch | L (mm) | g   |
|-------|-------|-------|---------|-----------------------|--------|-----|
| 75712 | Cu-Be | 75713 | Al-Bron | 3/8                   | 200    | 300 |


**ARTICULACIÓN UNIVERSAL / UNIVERSAL JOINT / CARDAN UNIVERSEL / KARDANGELLENK / SNODO CARDANICO / CARDAN UNIVERSAL / КАРДАННОЕ СОЕДИНЕНИЕ**

| COD.  | MAT.  | COD.  | MAT.    | AF $\frac{1}{8}$ inch | L (mm) | g   |
|-------|-------|-------|---------|-----------------------|--------|-----|
| 75714 | Cu-Be | 75715 | Al-Bron | 3/8                   | 70     | 150 |


**ADAPTADOR / ADAPTER / ADAPTATEUR / VERBINDUNGSTEILE / ADATTATORE / PEÇA DE CONEXÃO / АДАПТЕР**

| COD.  | MAT.  | COD.  | MAT.    | AF $\frac{1}{8}$ inch | AF $\frac{1}{8}$ inch | g  |
|-------|-------|-------|---------|-----------------------|-----------------------|----|
| 75716 | Cu-Be | 75717 | Al-Bron | 3/8-1/4               |                       | 20 |
| 75722 |       | 75723 |         | 3/8-1/2               |                       | 50 |



■ 3/8"

PUNTA HEXAGONAL CON VASO / HEX BIT SOCKET / EMBOUT HEXAGONAL À DOUILLE / HEX SCHRAUBENDREHEREINSATZ / PUNTA ESAGONALE CON BUSSOLA / PONTA HEXAGONAL COM CHAVE DE CAIXA / ШЕСТИГРАННАЯ ГОЛОВКА

| COD.  | MAT.  | COD.  | MAT.    | AF inch | AF mm | L (mm) | g  |
|-------|-------|-------|---------|---------|-------|--------|----|
| 36558 | Cu-Be | 36566 | Al-Bron | 3/8"    | 3     | 55     | 55 |
| 36559 |       | 36567 |         |         | 4     |        | 60 |
| 36560 |       | 36568 |         |         | 5     |        | 65 |
| 36561 |       | 36569 |         |         | 6     |        | 70 |
| 36562 |       | 36570 |         |         | 7     |        | 85 |
| 36563 |       | 36571 |         |         | 8     |        | 95 |
| 36564 |       | 36572 |         |         | 9     | 100    |    |
| 36565 |       | 36573 |         |         | 10    |        |    |



PUNTA HEXAGONAL CON VASO SERIE LARGA / HEX BIT SOCKET LONG SERIE / EMBOUT HEXAGONAL À DOUILLE LONGUES SÉRIES / SECHSKANT-BIT-STECKSCHLÜSSEL GROSSE SERIE / PUNTA ESAGONALE CON BUSSOLA SERIE LUNGA / PONTA HEXAGONAL COM CHAVE DE CAIXA LONGA / ГОЛОВКА-БИТ ШЕСТИГРАННАЯ ВЫСОКАЯ

| COD.  | MAT.  | COD.  | MAT.    | AF inch | AF mm | L (mm) | g   |
|-------|-------|-------|---------|---------|-------|--------|-----|
| 36628 | Cu-Be | 36636 | Al-Bron | 3/8"    | 3     | 100    | 60  |
| 36629 |       | 36637 |         |         | 4     |        | 65  |
| 36630 |       | 36638 |         |         | 5     |        | 70  |
| 36631 |       | 36639 |         |         | 6     |        | 80  |
| 36632 |       | 36640 |         |         | 7     |        | 90  |
| 36633 |       | 36641 |         |         | 8     |        | 105 |
| 36634 |       | 36642 |         |         | 10    |        | 135 |
| 36635 |       | 36643 |         |         | 12    |        | 165 |



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ART IN INNOVATION

37

**ANTICHISPA**  
**NON-SPARKING**  
**ANTIDÉFLAGRANT**  
**FUNKENFREI**  
**ANTISCINTILLA**  
**ANTI-DEFLAGRANTE**  
**ИСКРОБЕЗОПАСНЫЙ**



■ 1/2"

■ STANDARD

■ MM

■ 6 PT.

■ 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g   | COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g   |
|-------|-------|-------|---------|-------|--------|----|-----|-------|-------|-------|---------|-------|--------|----|-----|
| 70319 |       | 71158 |         | 6     |        |    |     | 74448 |       | 74475 |         | 6     |        |    |     |
| 70320 |       | 71159 |         | 7     |        |    | 60  | 74449 |       | 74476 |         | 7     |        |    | 60  |
| 70321 |       | 71160 |         | 8     |        |    |     | 74450 |       | 74477 |         | 8     |        |    |     |
| 70322 |       | 71161 |         | 9     |        |    |     | 74451 |       | 74478 |         | 9     |        |    |     |
| 70323 |       | 71162 |         | 10    |        |    | 70  | 74452 |       | 74479 |         | 10    |        |    | 70  |
| 70324 |       | 71163 |         | 11    | 40     |    |     | 74453 |       | 74480 |         | 11    | 40     |    |     |
| 70325 |       | 71164 |         | 12    |        |    |     | 74454 |       | 74481 |         | 12    |        |    |     |
| 70326 |       | 71165 |         | 13    |        |    | 80  | 74455 |       | 74482 |         | 13    |        |    | 80  |
| 70327 |       | 71166 |         | 14    |        |    |     | 74456 |       | 74483 |         | 14    |        |    |     |
| 70328 |       | 71167 |         | 15    |        |    |     | 74457 |       | 74484 |         | 15    |        |    |     |
| 70329 |       | 71168 |         | 16    |        |    | 90  | 74458 |       | 74485 |         | 16    |        |    | 90  |
| 70330 |       | 71169 |         | 17    |        |    |     | 74459 |       | 74486 |         | 17    |        |    |     |
| 70331 |       | 71170 |         | 18    |        |    |     | 74460 |       | 74487 |         | 18    |        |    |     |
| 70332 |       | 71171 |         | 19    | 42     |    | 100 | 74461 |       | 74488 |         | 19    | 42     |    | 100 |
| 70333 | Cu-Be | 71172 | Al-Bron | 20    |        | 6  |     | 74462 | Cu-Be | 74489 | Al-Bron | 20    |        | 12 |     |
| 70334 |       | 71173 |         | 21    |        |    | 120 | 74463 |       | 74490 |         | 21    |        |    | 120 |
| 70335 |       | 71174 |         | 22    |        |    | 130 | 74464 |       | 74491 |         | 22    |        |    | 130 |
| 70336 |       | 71175 |         | 23    |        |    | 140 | 74465 |       | 74492 |         | 23    |        |    | 140 |
| 70337 |       | 71176 |         | 24    | 43     |    | 170 | 74466 |       | 74493 |         | 24    | 43     |    | 170 |
| 70338 |       | 71177 |         | 25    |        |    | 180 | 74467 |       | 74494 |         | 25    |        |    | 180 |
| 70339 |       | 71178 |         | 26    |        |    | 190 | 74468 |       | 74495 |         | 26    |        |    | 190 |
| 70340 |       | 71179 |         | 27    |        |    |     | 74469 |       | 74496 |         | 27    |        |    |     |
| 70341 |       | 71180 |         | 28    |        |    |     | 74470 |       | 74497 |         | 28    |        |    |     |
| 70342 |       | 71181 |         | 29    | 46     |    | 200 | 74471 |       | 74498 |         | 29    | 46     |    | 200 |
| 70343 |       | 71182 |         | 30    |        |    |     | 74472 |       | 74499 |         | 30    |        |    |     |
| 70344 |       | 71183 |         | 32    |        |    |     | 74473 |       | 74500 |         | 32    |        |    |     |
| 74693 |       | 74692 |         | 34    | 50     |    | 350 | 75300 |       | 75301 |         | 34    | 50     |    | 350 |
| 74325 |       | 74326 |         | 36    |        |    | 400 | 74474 |       | 74501 |         | 36    |        |    | 450 |
| 79211 |       | 79212 |         | 41    | 55     |    | 590 | 36452 |       | 36453 |         | 41    | 55     |    | 590 |

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

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 ART IN INNOVATION

1099

# 37

**ANTICHISPA  
NON-SPARKING  
ANTIDÉFLAGRANT  
FUNKENFREI  
ANTISCINTILLA  
ANTI-DEFLAGRANTE  
ИСКРБЕЗОПАСНЫЙ**



- 1/2"
- STANDARD
- INCH
- 6 PT.

- 12 PT.



| COD.  | MAT.  | COD.  | MAT.    |        | L (mm) | Pt |     |
|-------|-------|-------|---------|--------|--------|----|-----|
| 71184 |       | 71202 |         | 1/4    |        |    |     |
| 71185 |       | 71203 |         | 5/16   |        |    | 60  |
| 35840 |       | 35841 |         | 11/32  |        |    |     |
| 71186 |       | 71204 |         | 3/8    |        |    | 70  |
| 71187 |       | 71205 |         | 7/16   | 40     |    |     |
| 71188 |       | 71206 |         | 1/2    |        |    |     |
| 71189 |       | 71207 |         | 9/16   |        |    | 80  |
| 71190 |       | 71208 |         | 19/32  |        |    |     |
| 71191 |       | 71209 |         | 5/8    |        |    |     |
| 71192 |       | 71210 |         | 11/16  |        |    |     |
| 35842 |       | 35843 |         | 23/32  | 42     |    | 90  |
| 71193 | Cu-Be | 71211 | Al-Bron | 3/4    |        | 6  |     |
| 71194 |       | 71212 |         | 25/32  |        |    | 100 |
| 71195 |       | 71213 |         | 13/16  |        |    |     |
| 71196 |       | 71214 |         | 7/8    | 43     |    | 120 |
| 35844 |       | 35845 |         | 29/32  |        |    | 140 |
| 71197 |       | 71215 |         | 15/16  |        |    |     |
| 71198 |       | 71216 |         | 1      |        |    | 150 |
| 71199 |       | 71217 |         | 1.1/16 |        |    | 200 |
| 71200 |       | 71218 |         | 1.1/8  | 46     |    |     |
| 77788 |       | 77789 |         | 1.3/16 |        |    | 250 |
| 71201 |       | 71219 |         | 1.1/4  |        |    |     |
| 74882 |       | 74883 |         | 1.7/16 | 47     |    | 300 |
| 78983 |       | 78984 |         | 1.1/2  | 55     |    |     |

| COD.  | MAT.  | COD.  | MAT.    |        | L (mm) | Pt |     |
|-------|-------|-------|---------|--------|--------|----|-----|
| 74502 |       | 74520 |         | 1/4    |        |    |     |
| 74503 |       | 74521 |         | 5/16   |        |    | 60  |
| 35850 |       | 35851 |         | 11/32  |        |    |     |
| 74504 |       | 74522 |         | 3/8    |        |    | 70  |
| 74505 |       | 74523 |         | 7/16   | 40     |    |     |
| 74506 |       | 74524 |         | 1/2    |        |    |     |
| 74507 |       | 74525 |         | 9/16   |        |    | 80  |
| 74508 |       | 74526 |         | 19/32  |        |    |     |
| 74509 |       | 74527 |         | 5/8    |        |    |     |
| 74510 |       | 74528 |         | 11/16  |        |    |     |
| 35852 |       | 35853 |         | 23/32  | 42     |    | 90  |
| 74511 | Cu-Be | 74529 | Al-Bron | 3/4    |        | 12 |     |
| 74512 |       | 74530 |         | 25/32  |        |    | 100 |
| 74513 |       | 74531 |         | 13/16  |        |    |     |
| 74514 |       | 74532 |         | 7/8    | 43     |    | 120 |
| 35854 |       | 35855 |         | 29/32  |        |    | 140 |
| 74515 |       | 74533 |         | 15/16  |        |    |     |
| 74516 |       | 74534 |         | 1      |        |    | 150 |
| 74517 |       | 74535 |         | 1.1/16 |        |    | 200 |
| 74518 |       | 74536 |         | 1.1/8  | 46     |    |     |
| 77790 |       | 77791 |         | 1.3/16 |        |    | 250 |
| 74519 |       | 74537 |         | 1.1/4  |        |    |     |
| 75302 |       | 75304 |         | 1.7/16 | 47     |    | 300 |
| 36446 |       | 36447 |         | 1.1/2  | 55     |    |     |

# BE SAFE...BE EFFICIENT

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза



# 37

**ANTICHISPA  
NON-SPARKING  
ANTIDÉFLAGRANT  
FUNKENFREI  
ANTISCINTILLA  
ANTI-DEFLAGRANTE  
ИСКРОБЕЗОПАСНЫЙ**



■ 1/2"

■ SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

■ MM

■ 6 PT.

■ 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt  | g   | COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt  | g   |
|-------|-------|-------|---------|-------|--------|-----|-----|-------|-------|-------|---------|-------|--------|-----|-----|
| 35000 |       | 35001 |         | 6     |        |     |     | 35084 |       | 35085 |         | 6     |        |     |     |
| 35002 |       | 35003 |         | 7     |        |     |     | 35086 |       | 35087 |         | 7     |        |     |     |
| 35004 |       | 35005 |         | 8     |        |     |     | 35088 |       | 35089 |         | 8     |        |     |     |
| 35006 |       | 35007 |         | 9     |        |     |     | 35090 |       | 35091 |         | 9     |        |     |     |
| 35008 |       | 35009 |         | 10    |        |     |     | 35092 |       | 35093 |         | 10    |        |     |     |
| 35010 |       | 35011 |         | 11    |        |     |     | 35094 |       | 35095 |         | 11    |        |     |     |
| 35012 |       | 35013 |         | 12    |        | 190 |     | 35096 |       | 35097 |         | 12    |        | 190 |     |
| 74284 |       | 74285 |         | 13    |        |     |     | 35098 |       | 35099 |         | 13    |        |     |     |
| 35014 |       | 35015 |         | 14    |        |     |     | 35100 |       | 35101 |         | 14    |        |     |     |
| 35016 |       | 35017 |         | 15    |        |     |     | 35102 |       | 35103 |         | 15    |        |     |     |
| 74294 |       | 74295 |         | 16    |        |     |     | 35104 |       | 35105 |         | 16    |        |     |     |
| 74286 |       | 74287 |         | 17    |        |     |     | 35106 |       | 35107 |         | 17    |        |     |     |
| 35018 |       | 35019 |         | 18    |        | 195 |     | 35108 |       | 35109 |         | 18    |        | 195 |     |
| 74288 |       | 74289 |         | 19    |        | 200 |     | 35110 |       | 35111 |         | 19    |        | 200 |     |
| 35020 | Cu-Be | 35021 | Al-Bron | 20    | 82     | 6   | 230 | 35112 | Cu-Be | 35113 | Al-Bron | 20    | 82     | 12  | 230 |
| 35022 |       | 35023 |         | 21    |        |     | 240 | 35114 |       | 35115 |         | 21    |        |     | 240 |
| 35024 |       | 35025 |         | 22    |        |     | 260 | 35116 |       | 35117 |         | 22    |        |     | 260 |
| 35026 |       | 35027 |         | 23    |        |     | 280 | 35118 |       | 35119 |         | 23    |        |     | 280 |
| 74290 |       | 74291 |         | 24    |        |     | 300 | 35120 |       | 35121 |         | 24    |        |     | 300 |
| 35028 |       | 35029 |         | 25    |        |     | 320 | 35122 |       | 35123 |         | 25    |        |     | 320 |
| 35030 |       | 35031 |         | 26    |        |     | 340 | 35124 |       | 35125 |         | 26    |        |     | 340 |
| 74292 |       | 74293 |         | 27    |        |     | 360 | 35126 |       | 35127 |         | 27    |        |     | 360 |
| 35032 |       | 35033 |         | 28    |        |     | 390 | 35128 |       | 35129 |         | 28    |        |     | 390 |
| 35034 |       | 35035 |         | 29    |        |     | 410 | 35130 |       | 35131 |         | 29    |        |     | 410 |
| 35036 |       | 35037 |         | 30    |        |     | 430 | 35132 |       | 35133 |         | 30    |        |     | 430 |
| 35038 |       | 35039 |         | 32    |        |     | 500 | 35134 |       | 35135 |         | 32    |        |     | 500 |
| 35040 |       | 35041 |         | 34    |        |     | 550 | 35136 |       | 35137 |         | 34    |        |     | 550 |
| 35042 |       | 35043 |         | 36    |        |     | 650 | 35138 |       | 35139 |         | 36    |        |     | 650 |
| 36450 |       | 36451 |         | 41    |        |     | 980 | 36454 |       | 36455 |         | 41    |        |     | 980 |

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

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■ 1/2"

■ SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

■ INCH

■ 6 PT.

■ 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt  | g   | COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt  | g   |
|-------|-------|-------|---------|---------|--------|-----|-----|-------|-------|-------|---------|---------|--------|-----|-----|
| 35044 |       | 35045 |         | 1/4     |        |     |     | 35140 |       | 35141 |         | 1/4     |        |     |     |
| 35046 |       | 35047 |         | 5/16    |        |     |     | 35142 |       | 35143 |         | 5/16    |        |     |     |
| 35048 |       | 35049 |         | 3/8     |        |     |     | 35144 |       | 35145 |         | 3/8     |        |     |     |
| 35050 |       | 35051 |         | 7/16    |        |     |     | 35146 |       | 35147 |         | 7/16    |        |     |     |
| 35052 |       | 35053 |         | 1/2     |        | 190 |     | 35148 |       | 35149 |         | 1/2     |        | 190 |     |
| 35054 |       | 35055 |         | 9/16    |        |     |     | 35150 |       | 35151 |         | 9/16    |        |     |     |
| 35056 |       | 35057 |         | 19/32   |        |     |     | 35152 |       | 35153 |         | 19/32   |        |     |     |
| 35058 |       | 35059 |         | 5/8     |        |     |     | 35154 |       | 35155 |         | 5/8     |        |     |     |
| 35060 |       | 35061 |         | 11/16   |        |     |     | 35156 |       | 35157 |         | 11/16   |        |     |     |
| 35062 |       | 35063 |         | 3/4     |        | 200 |     | 35158 |       | 35159 |         | 3/4     |        | 200 |     |
| 35064 | Cu-Be | 35065 | Al-Bron | 25/32   | 82     | 6   | 230 | 35160 | Cu-Be | 35161 | Al-Bron | 25/32   | 82     | 12  | 230 |
| 35066 |       | 35067 |         | 13/16   |        |     | 240 | 35162 |       | 35163 |         | 13/16   |        |     | 240 |
| 35068 |       | 35069 |         | 7/8     |        |     | 260 | 35164 |       | 35165 |         | 7/8     |        |     | 260 |
| 35070 |       | 35071 |         | 15/16   |        |     | 300 | 35166 |       | 35167 |         | 15/16   |        |     | 300 |
| 35072 |       | 35073 |         | 1       |        |     | 320 | 35168 |       | 35169 |         | 1       |        |     | 320 |
| 35074 |       | 35075 |         | 1.1/16  |        |     | 360 | 35170 |       | 35171 |         | 1.1/16  |        |     | 360 |
| 35076 |       | 35077 |         | 1.1/8   |        |     | 410 | 35172 |       | 35173 |         | 1.1/8   |        |     | 410 |
| 35078 |       | 35079 |         | 1.3/16  |        |     | 430 | 35174 |       | 35175 |         | 1.3/16  |        |     | 430 |
| 35080 |       | 35081 |         | 1.1/4   |        |     | 500 | 35176 |       | 35177 |         | 1.1/4   |        |     | 500 |
| 35082 |       | 35083 |         | 1.7/16  |        |     | 650 | 35178 |       | 35179 |         | 1.7/16  |        |     | 650 |
| 36444 |       | 36445 |         | 1.1/2   |        |     | 800 | 36448 |       | 36449 |         | 1.1/2   |        |     | 800 |

**LLAVE DE CARRACA REVERSIBLE / REVERSIBLE RATCHET HANDLE / CLÉ À CLIQUET RÉVERSIBLE / UMSCHALTKNARRE / CHIAVE A CRICCO REVERSIBILE / ROQUETE REVERSIVEL / РЕВЕРСИВНАЯ ТРЕЩЕТКА**

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | g   |
|-------|-------|-------|---------|---------|--------|-----|
| 70375 | Cu-Be | 71272 | Al-Bron | 1/2     | 250    | 600 |



**CARRACA MACHO-HEMERA / MALE-FEMALE RATCHET / CLIQUET MALE-FEMELLE / RATSCHKE DOPPELT FUNKTION / CRICCO MASCHIO-FEMMINA / ROQUETE MACHO-FÊMEA / ТРЕЩЕТКА ПАПА-МАМА**

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | g   |
|-------|-------|-------|---------|---------|--------|-----|
| 73724 | Cu-Be | 73725 | Al-Bron | 1/2     | 250    | 450 |





**MANGO CORREDIZO EN "T" / SLIDING "T" HANDLE / POIGNÉE COULISSANTE / T-GLEITGRIFF / ASTA CON QUADRO SCORREVOLE "T" / CABO "T" CORREDIÇO / Т-ОБРАЗНАЯ С ПЛАВАЮЩЕЙ РУЧКОЙ**

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (inch) | g   |
|-------|-------|-------|---------|---------|----------|-----|
| 70378 |       | 71274 |         | 1/2     | 10       | 400 |
| 70379 | Cu-Be | 71275 | Al-Bron |         | 12       | 500 |





## 1/2"




**MANGO ARTICULADO / SWIVEL HANDLE / MANCHE ARTICULÉ / GELENKGRIF / MANICO ARTICOLATO / CABO ARTICULADO / ГИБКАЯ РУКОЯТКА**

| COD.  | MAT.  | COD.  | MAT.    |  | L (mm) |  |
|-------|-------|-------|---------|-----------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------|
| 72400 |       | 72401 |         | 1/2                                                                               | 230    | 330                                                                                |
| 72402 | Cu-Be | 72403 | Al-Bron |                                                                                   | 330    | 400                                                                                |
| 72404 |       | 72405 |         |                                                                                   | 410    | 550                                                                                |




**MANGO ACODADO / OFFSET HANDLE / MANCHE CONTRE COUDÉ / GEKRÖPFTE HANDGRIF / DOPPIO MANICO / CABO DESALINHADO / ИЗОГНУТАЯ РУКОЯТКА**

| COD.  | MAT.  | COD.  | MAT.    |  | L (mm) |  |
|-------|-------|-------|---------|-----------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------|
| 72410 | Cu-Be | 72411 | Al-Bron | 1/2                                                                               | 230    | 400                                                                                |




**PUNTA PLANA CON VASO / FLAT BIT SOCKET / EMBOUT FENTE À DOUILLE / FLACHE SCHRAUBENDREHEREINSATZ / PUNTA PIATTA CON BUSSOLA / PONTA DE FENDA COM CHAVE DE SAIXA / ГОЛОВКА С ПЛОСКОЙ ОТВЕРТКОЙ**

| COD.  | MAT.  | COD.  | MAT.    |  | L (mm) |  |  |
|-------|-------|-------|---------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 73709 | Cu-Be | 73710 | Al-Bron | 1/2                                                                               | 50     | 13 x 2                                                                            | 100                                                                                 |




**BERBIQUÍ / SPEEDER HANDLE / VILEBREQUIN / WINDE / LEVA GIROBECCHINO / MANIVELA / КОЛЕНЧАТАЯ РУЧКА**

| COD.  | MAT.  | COD.  | MAT.    |  | L (mm) |  |
|-------|-------|-------|---------|------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|
| 72416 | Cu-Be | 72417 | Al-Bron | 1/2                                                                                | 390    | 750                                                                                 |





**ALARGADERA / EXTENSION / RALLONGE / VERLÄNGERUNG / PROLUNGA / EXTENÇÃO / УДЛИНИТЕЛЬ**

| COD.  | MAT.  | COD.  | MAT.    |  | L (inch) |  |
|-------|-------|-------|---------|-------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------|
| 70383 |       | 71279 |         | 1/2                                                                                 | 4        | 200                                                                                  |
| 76490 |       | 76491 |         |                                                                                     | 5        | 245                                                                                  |
| 70384 | Cu-Be | 71280 | Al-Bron |                                                                                     | 8        | 400                                                                                  |
| 70385 |       | 71281 |         |                                                                                     | 10       | 500                                                                                  |
| 75477 |       | 75478 |         |                                                                                     | 16       | 715                                                                                  |


**ARTICULACIÓN UNIVERSAL / UNIVERSAL JOINT / CARDAN UNIVERSEL / KARDANGELNENK / SNODO CARDANICO / CARDAN UNIVERSAL / КАРДАННОЕ СОЕДИНЕНИЕ**

| COD.  | MAT.  | COD.  | MAT.    |  | L (mm) |  |
|-------|-------|-------|---------|-------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------|
| 70372 | Cu-Be | 71269 | Al-Bron | 1/2                                                                                 | 80     | 200                                                                                  |


**ADAPTADOR / ADAPTER / ADAPTATEUR / VERBINDUNGSTEILE / ADATTATORE / PEÇA DE CONEXÃO / АДАПТЕР**

| COD.  | MAT.  | COD.  | MAT.    |  |  |  |
|-------|-------|-------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 75720 |       | 75721 |         | 1/2-3/8                                                                             | 1/2-3/4                                                                             | 70                                                                                  |
| 70369 | Cu-Be | 71266 | Al-Bron |                                                                                     |                                                                                     | 200                                                                                 |
| 79946 |       | 79947 |         |                                                                                     |                                                                                     | 1/2-1                                                                               |



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**ANTICHISPA**  
**NON-SPARKING**  
**ANTIDÉFLAGRANT**  
**FUNKENFREI**  
**ANTISCINTILLA**  
**ANTI-DEFLAGRANTE**  
**ИСКРОБЕЗОПАСНЫЙ**



■ 1/2"

**PUNTA HEXAGONAL CON VASO / HEX BIT SOCKET / EMBOUT HEXAGONAL A DOVILLE / HEX SCHRAUBENDREHEREINSATZ / PUNTA HEXAGONAL CON BUSSOLA / PONTA HEXAGONAL COM CHAVE DE CAIXA / ШЕСТИГРАННАЯ ГОЛОВКА**

| COD.  | MAT.  | COD.  | MAT.    | AF inch | AF mm | L (mm) | g  |
|-------|-------|-------|---------|---------|-------|--------|----|
| 36645 | Cu-Be | 36657 | Al-Bron | 1/2     | 4     | 55     | 85 |
| 36646 |       | 5     |         |         |       |        |    |
| 36647 |       | 6     |         |         |       |        |    |
| 36648 |       | 7     |         |         |       |        |    |
| 36649 |       | 8     |         |         |       |        |    |
| 36650 |       | 10    |         |         |       |        |    |
| 36651 |       | 12    |         |         | 65    | 135    |    |
| 36652 |       | 14    |         |         |       |        |    |
| 36653 |       | 16    |         |         |       |        |    |
| 36654 |       | 17    |         |         |       |        |    |
| 36655 |       | 18    |         |         |       |        |    |
| 36656 |       | 19    |         |         | 210   |        |    |



**PUNTA HEXAGONAL CON VASO SERIE LARGA / HEX BIT SOCKET LONG SERIE / EMBOUT HEXAGONAL A DOVILLE LONGUES SÉRIES / SECHSKANT-BIT-STECKSCHLÜSSEL GROSSE SERIE / PUNTA ESAGONALE CON BUSSOLA SERIE LUNGA / PONTA HEXAGONAL COM CHAVE DE CAIXA LONGA / ГОЛОВКА-БИТ ШЕСТИГРАННАЯ ВЫСОКАЯ**

| COD.  | MAT.  | COD.  | MAT.    | AF inch | AF mm | L (mm) | g  |
|-------|-------|-------|---------|---------|-------|--------|----|
| 36670 | Cu-Be | 36682 | Al-Bron | 1/2     | 4     | 100    | 95 |
| 36671 |       | 5     |         |         |       |        |    |
| 36672 |       | 6     |         |         | 100   |        |    |
| 36673 |       | 7     |         |         |       |        |    |
| 36674 |       | 8     |         |         |       |        |    |
| 36675 |       | 10    |         |         | 155   |        |    |
| 36676 |       | 12    |         |         |       |        |    |
| 36677 |       | 14    |         |         | 250   |        |    |
| 36678 |       | 16    |         |         |       |        |    |
| 36679 |       | 17    |         |         | 290   |        |    |
| 36680 |       | 18    |         |         |       |        |    |
| 36681 |       | 19    |         |         | 320   |        |    |



# BE SAFE...BE EFFICIENT

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

# 37

**ANTICHISPA  
NON-SPARKING  
ANTIDÉFLAGRANT  
FUNKENFREI  
ANTISCINTILLA  
ANTI-DEFLAGRANTE  
ИСКРБЕЗОПАСНЫЙ**



■ 3/4"

■ STANDARD

■ MM

■ 6 PT.

■ 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g    |
|-------|-------|-------|---------|-------|--------|----|------|
| 74649 |       | 74653 |         | 17    |        |    |      |
| 75724 |       | 75725 |         | 18    | 50     |    | 200  |
| 74650 |       | 74654 |         | 19    |        |    |      |
| 74651 |       | 74655 |         | 21    | 55     |    | 250  |
| 74652 |       | 74656 |         | 22    |        |    |      |
| 79017 |       | 79018 |         | 23    | 50     |    |      |
| 70345 |       | 71220 |         | 24    |        |    | 280  |
| 71908 |       | 72953 |         | 26    |        |    |      |
| 70346 |       | 71221 |         | 27    | 55     |    |      |
| 75726 |       | 75727 |         | 28    |        |    | 310  |
| 75728 |       | 75729 |         | 29    |        |    | 320  |
| 70347 |       | 71222 |         | 30    |        |    | 370  |
| 75730 |       | 75731 |         | 31    |        |    | 380  |
| 70348 | Cu-Be | 71223 | Al-Bron | 32    |        | 6  | 410  |
| 77792 |       | 77793 |         | 33    |        |    |      |
| 74863 |       | 74864 |         | 34    | 60     |    | 440  |
| 77794 |       | 77795 |         | 35    |        |    | 460  |
| 70349 |       | 71224 |         | 36    |        |    | 470  |
| 77796 |       | 77797 |         | 37    |        |    | 470  |
| 74865 |       | 74866 |         | 38    |        |    | 500  |
| 70350 |       | 71225 |         | 41    |        |    | 650  |
| 77798 |       | 77799 |         | 42    | 65     |    | 700  |
| 70351 |       | 71226 |         | 46    |        |    | 750  |
| 77800 |       | 77801 |         | 47    |        |    | 750  |
| 70352 |       | 71227 |         | 50    |        |    | 850  |
| 77802 |       | 77803 |         | 52    | 70     |    | 900  |
| 77804 |       | 77805 |         | 55    |        |    | 950  |
| 77806 |       | 77807 |         | 60    |        |    | 1100 |

| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g    |
|-------|-------|-------|---------|-------|--------|----|------|
| 75734 |       | 75735 |         | 17    |        |    |      |
| 75736 |       | 75737 |         | 18    | 50     |    | 200  |
| 75738 |       | 75739 |         | 19    |        |    |      |
| 75740 |       | 75741 |         | 21    |        |    | 250  |
| 75742 |       | 75743 |         | 22    |        |    |      |
| 74538 |       | 74547 |         | 24    |        |    |      |
| 74539 |       | 74548 |         | 26    | 55     |    | 280  |
| 74540 |       | 74549 |         | 27    |        |    |      |
| 75744 |       | 75745 |         | 28    |        |    | 310  |
| 75746 |       | 75747 |         | 29    |        |    | 320  |
| 74541 |       | 74550 |         | 30    |        |    | 370  |
| 75748 |       | 75749 |         | 31    |        |    | 380  |
| 74542 |       | 74551 |         | 32    |        |    |      |
| 77810 | Cu-Be | 77811 | Al-Bron | 33    |        | 12 | 410  |
| 75750 |       | 75751 |         | 34    | 60     |    | 440  |
| 77812 |       | 77813 |         | 35    |        |    | 460  |
| 74543 |       | 74552 |         | 36    |        |    | 470  |
| 77814 |       | 77815 |         | 37    |        |    | 500  |
| 75752 |       | 75753 |         | 38    |        |    | 650  |
| 74544 |       | 74553 |         | 41    |        |    | 700  |
| 77816 |       | 77817 |         | 42    | 65     |    | 750  |
| 74545 |       | 74554 |         | 46    |        |    | 850  |
| 77818 |       | 77819 |         | 47    |        |    | 900  |
| 74546 |       | 74555 |         | 50    |        |    | 950  |
| 77820 |       | 77821 |         | 52    | 70     |    | 1100 |
| 77822 |       | 77823 |         | 55    |        |    |      |
| 77824 |       | 77825 |         | 60    |        |    |      |

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Аллюминий Бронза

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■ 3/4"

■ STANDARD

■ INCH

■ 6 PT.

■ 12 PT.



| COD.  | MAT.  | COD.  | MAT.    |         | L (mm) | Pt |     |
|-------|-------|-------|---------|---------|--------|----|-----|
| 74786 |       | 74787 |         | 3/4     | 50     |    | 220 |
| 75732 |       | 75733 |         | 13/16   |        |    | 240 |
| 74788 |       | 74789 |         | 7/8     |        |    |     |
| 74790 |       | 74791 |         | 15/16   | 55     |    |     |
| 74792 |       | 74793 |         | 1       |        |    | 280 |
| 74802 |       | 74803 |         | 1.1/16  |        |    |     |
| 74804 |       | 74805 |         | 1.1/8   |        |    | 310 |
| 35846 |       | 35847 |         | 1.5/32  |        |    | 360 |
| 74867 |       | 74868 |         | 1.3/16  |        |    |     |
| 35848 |       | 35849 |         | 1.7/32  |        |    | 400 |
| 74869 |       | 74870 |         | 1.1/4   |        |    |     |
| 71228 | Cu-Be | 71239 | Al-Bron | 1.5/16  | 60     | 6  | 430 |
| 71229 |       | 71240 |         | 1.3/8   |        |    | 470 |
| 71230 |       | 71241 |         | 1.7/16  |        |    | 480 |
| 71231 |       | 71242 |         | 1.1/2   |        |    | 550 |
| 71232 |       | 71243 |         | 1.9/16  |        |    | 650 |
| 71233 |       | 71244 |         | 1.5/8   |        |    |     |
| 71234 |       | 71245 |         | 1.11/16 |        |    |     |
| 71235 |       | 71246 |         | 1.3/4   | 65     |    | 700 |
| 71236 |       | 71247 |         | 1.13/16 |        |    |     |
| 71237 |       | 71248 |         | 1.7/8   |        |    |     |
| 77808 |       | 77809 |         | 1.15/16 |        |    | 800 |
| 71238 |       | 71249 |         | 2       | 70     |    | 850 |

| COD.  | MAT.  | COD.  | MAT.    |         | L (mm) | Pt |     |
|-------|-------|-------|---------|---------|--------|----|-----|
| 75754 |       | 75755 |         | 3/4     | 50     |    | 220 |
| 75756 |       | 75757 |         | 13/16   |        |    | 240 |
| 75758 |       | 75759 |         | 7/8     |        |    |     |
| 75760 |       | 75761 |         | 15/16   | 55     |    |     |
| 75762 |       | 75763 |         | 1       |        |    | 280 |
| 75764 |       | 75765 |         | 1.1/16  |        |    |     |
| 75766 |       | 75767 |         | 1.1/8   |        |    | 310 |
| 35856 |       | 35857 |         | 1.5/32  |        |    | 360 |
| 75768 |       | 75769 |         | 1.3/16  |        |    |     |
| 35858 |       | 35859 |         | 1.7/32  |        |    | 400 |
| 75770 |       | 75771 |         | 1.1/4   |        |    |     |
| 74556 | Cu-Be | 74567 | Al-Bron | 1.5/16  | 60     | 12 | 430 |
| 74557 |       | 74568 |         | 1.3/8   |        |    | 470 |
| 74558 |       | 74569 |         | 1.7/16  |        |    | 480 |
| 74559 |       | 74570 |         | 1.1/2   |        |    | 550 |
| 74560 |       | 74571 |         | 1.9/16  |        |    | 650 |
| 74561 |       | 74572 |         | 1.5/8   |        |    |     |
| 74562 |       | 74573 |         | 1.11/16 |        |    |     |
| 74563 |       | 74574 |         | 1.3/4   | 65     |    | 700 |
| 74564 |       | 74575 |         | 1.13/16 |        |    |     |
| 74565 |       | 74576 |         | 1.7/8   |        |    |     |
| 77826 |       | 77827 |         | 1.15/16 |        |    | 800 |
| 74566 |       | 74577 |         | 2       | 70     |    | 850 |

# 37

**ANTICHISPA  
NON-SPARKING  
ANTIDÉFLAGRANT  
FUNKENFREI  
ANTISCINTILLA  
ANTI-DEFLAGRANTE  
ИСКРБЕЗОПАСНЫЙ**



■ 3/4"

■ SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

■ MM

■ 6 PT.

■ 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g    | COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g    |
|-------|-------|-------|---------|-------|--------|----|------|-------|-------|-------|---------|-------|--------|----|------|
| 35180 |       | 35181 |         | 17    |        |    |      | 35274 |       | 35275 |         | 17    |        |    |      |
| 35182 |       | 35183 |         | 18    |        |    |      | 35276 |       | 35277 |         | 18    |        |    |      |
| 35184 |       | 35185 |         | 19    |        |    |      | 35278 |       | 35279 |         | 19    |        |    |      |
| 36340 |       | 36341 |         | 20    |        |    | 500  | 36342 |       | 36343 |         | 20    |        |    | 500  |
| 35186 |       | 35187 |         | 21    |        |    |      | 35280 |       | 35281 |         | 21    |        |    |      |
| 35188 |       | 35189 |         | 22    |        |    |      | 35282 |       | 35283 |         | 22    |        |    |      |
| 35190 |       | 35191 |         | 24    |        |    | 550  | 35284 |       | 35285 |         | 24    |        |    | 550  |
| 35192 |       | 35193 |         | 26    |        |    |      | 35286 |       | 35287 |         | 26    |        |    |      |
| 35194 |       | 35195 |         | 27    |        |    |      | 35288 |       | 35289 |         | 27    |        |    |      |
| 35196 |       | 35197 |         | 28    |        |    | 600  | 35290 |       | 35291 |         | 28    |        |    | 600  |
| 35198 |       | 35199 |         | 29    | 90     |    |      | 35292 |       | 35293 |         | 29    | 90     |    |      |
| 35200 |       | 35201 |         | 30    |        |    |      | 35294 |       | 35295 |         | 30    |        |    |      |
| 35202 |       | 35203 |         | 31    |        |    |      | 35296 |       | 35297 |         | 31    |        |    |      |
| 35204 | Cu-Be | 70484 | Al-Bron | 32    |        |    |      | 35298 | Cu-Be | 35299 | Al-Bron | 32    |        |    |      |
| 35206 |       | 35207 |         | 33    |        | 6  | 650  | 35300 |       | 35301 |         | 33    |        | 12 | 650  |
| 35208 |       | 35209 |         | 34    |        |    |      | 35302 |       | 35303 |         | 34    |        |    |      |
| 35210 |       | 35211 |         | 35    |        |    |      | 35304 |       | 35305 |         | 35    |        |    |      |
| 76775 |       | 70485 |         | 36    |        |    | 700  | 35306 |       | 35307 |         | 36    |        |    | 700  |
| 35212 |       | 35213 |         | 37    |        |    | 750  | 35308 |       | 35309 |         | 37    |        |    | 750  |
| 35214 |       | 35215 |         | 38    |        |    | 800  | 35310 |       | 35311 |         | 38    |        |    | 800  |
| 35216 |       | 35217 |         | 41    |        |    | 900  | 35312 |       | 35313 |         | 41    |        |    | 900  |
| 35218 |       | 35219 |         | 42    |        |    | 950  | 35314 |       | 35315 |         | 42    |        |    | 950  |
| 35220 |       | 35221 |         | 46    |        |    | 1150 | 35316 |       | 35317 |         | 46    |        |    | 1150 |
| 35222 |       | 35223 |         | 47    |        |    | 1200 | 35318 |       | 35319 |         | 47    |        |    | 1200 |
| 35224 |       | 35225 |         | 50    | 100    |    | 1250 | 35320 |       | 35321 |         | 50    | 100    |    | 1250 |
| 35226 |       | 35227 |         | 52    |        |    |      | 35322 |       | 35323 |         | 52    |        |    |      |
| 35228 |       | 35229 |         | 55    |        |    | 1300 | 35324 |       | 35325 |         | 55    |        |    | 1300 |
| 35230 |       | 35231 |         | 60    |        |    | 1400 | 35326 |       | 35327 |         | 60    |        |    | 1400 |

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

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■ 3/4"

■ SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

■ INCH

■ 6 PT.

■ 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g    | COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g    |
|-------|-------|-------|---------|---------|--------|----|------|-------|-------|-------|---------|---------|--------|----|------|
| 35232 |       | 35233 |         | 3/4     |        |    |      | 35328 |       | 35329 |         | 3/4     |        |    |      |
| 35234 |       | 35235 |         | 13/16   |        |    | 500  | 35330 |       | 35331 |         | 13/16   |        |    | 500  |
| 35236 |       | 35237 |         | 7/8     |        |    |      | 35332 |       | 35333 |         | 7/8     |        |    |      |
| 35238 |       | 35239 |         | 15/16   |        |    | 550  | 35334 |       | 35335 |         | 15/16   |        |    | 550  |
| 35240 |       | 35241 |         | 1       |        |    |      | 35336 |       | 35337 |         | 1       |        |    |      |
| 35242 |       | 35243 |         | 1.1/16  |        |    |      | 35338 |       | 35339 |         | 1.1/16  |        |    |      |
| 35244 |       | 35245 |         | 1.1/8   |        |    | 600  | 35340 |       | 35341 |         | 1.1/8   |        |    | 600  |
| 35246 |       | 35247 |         | 1.3/16  |        |    |      | 35342 |       | 35343 |         | 1.3/16  |        |    |      |
| 35248 |       | 35249 |         | 1.1/4   | 90     |    |      | 35344 |       | 35345 |         | 1.1/4   | 90     |    |      |
| 35250 |       | 35251 |         | 1.5/16  |        |    | 650  | 35346 |       | 35347 |         | 1.5/16  |        |    | 650  |
| 35252 | Cu-Be | 35253 | Al-Bron | 1.3/8   |        | 6  |      | 35348 | Cu-Be | 35349 | Al-Bron | 1.3/8   |        | 12 |      |
| 35254 |       | 35255 |         | 1.7/16  |        |    | 700  | 35350 |       | 35351 |         | 1.7/16  |        |    | 700  |
| 35256 |       | 35257 |         | 1.1/2   |        |    | 800  | 35352 |       | 35353 |         | 1.1/2   |        |    | 800  |
| 35258 |       | 35259 |         | 1.9/16  |        |    | 900  | 35354 |       | 35355 |         | 1.9/16  |        |    | 900  |
| 35260 |       | 35261 |         | 1.5/8   |        |    | 950  | 35356 |       | 35357 |         | 1.5/8   |        |    | 950  |
| 35262 |       | 35263 |         | 1.11/16 |        |    | 1000 | 35358 |       | 35359 |         | 1.11/16 |        |    | 1000 |
| 35264 |       | 35265 |         | 1.3/4   |        |    | 1000 | 35360 |       | 35361 |         | 1.3/4   |        |    | 1000 |
| 35266 |       | 35267 |         | 1.13/16 |        |    | 1150 | 35362 |       | 35363 |         | 1.13/16 |        |    | 1150 |
| 35268 |       | 35269 |         | 1.7/8   | 100    |    | 1200 | 35364 |       | 35365 |         | 1.7/8   | 100    |    | 1200 |
| 35270 |       | 35271 |         | 1.15/16 |        |    | 1250 | 35366 |       | 35367 |         | 1.15/16 |        |    | 1250 |
| 35272 |       | 35273 |         | 2       |        |    |      | 35368 |       | 35369 |         | 2       |        |    | 1250 |

**CARRACA MACHO-HEMBRA / MALE-FEMALE RATCHET / CLIQUET MALE-FEMELLE / RATSCHKE DOPPELT FUNKTION / CRICCO MASCHIO-FEMMINA / ROQUETE MACHO-FÊMEA / ТРЕЩЕТКА ПАПА-МАМА**

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | g    |
|-------|-------|-------|---------|---------|--------|------|
| 73726 | Cu-Be | 73727 | Al-Bron | 3/4     | 300    | 1000 |

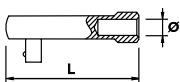


**LLAVE DE CARRACA REVERSIBLE / REVERSIBLE RATCHET HANDLE / CLÉ À CLIQUET RÉVERSIBLE / UMSCHALTKNARRE / CHIAVE A CRICCO REVERSIBILE / ROQUETE REVERSIVEL / РЕВЕРСИВНАЯ ТРЕЩЕТКА**

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | g    |
|-------|-------|-------|---------|---------|--------|------|
| 70376 | Cu-Be | 71273 | Al-Bron | 3/4     | 390    | 1400 |



**CABEZA DE CARRACA / RATCHET HEAD / TÊTE À CLIQUET / RATSCHKE KOPF / TESTA A CRICCO / CABEÇA DE ROQUETE / ГОЛОВКА ТРЕЩЕТКИ**



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | O.D. mm | g    |
|-------|-------|-------|---------|---------|--------|---------|------|
| 73712 | Cu-Be | 73713 | Al-Bron | 3/4     | 160    | 21      | 1500 |



**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза



## 3/4"

**MANGO CORREDIZO EN "T" / SLIDING "T" HANDLE / POIGNÉE COULISSANTE / T-GLEITGRIFF / ASTA CON QUADRO SCORREVOLE "T" / CABO "T" CORREDIÇO / T-ОБРАЗНАЯ С ПЛАВАЮЩЕЙ РУЧКОЙ**

| COD.  | MAT.  | COD.  | MAT.    | AF<br>inch | L (mm) | g    |
|-------|-------|-------|---------|------------|--------|------|
| 70380 | Cu-Be | 71276 | Al-Bron | 3/4        | 250    | 900  |
| 70381 |       | 71277 |         |            | 460    | 1700 |


**MANGO CORREDIZO EN "T" LARGO / LONG SLIDING "T" HANDLE / POIGNÉE COULISSANTE LONGUE / LANGE T-GRIFF MIT GLEITSTÜCK / MANICO LUNGO SCORREVOLE A T / CABO T CORREDIÇO LONGO / T-ОБРАЗНАЯ С ПЛАВАЮЩЕЙ РУЧКОЙ ДЛИННАЯ**

| COD.  | MAT.  | COD.  | MAT.    | AF<br>inch | L (mm) | H (mm) | g    |
|-------|-------|-------|---------|------------|--------|--------|------|
| 73717 | Cu-Be | 73718 | Al-Bron | 3/4        | 350    | 190    | 1500 |


**MANGO ARTICULADO / SWIVEL HANDLE / MANCHE ARTICULÉ / GELENKGRIFF / MANICO ARTICOLATO / CABO ARTICULADO / ГИБКАЯ РУКОЯТКА**

| COD.  | MAT.  | COD.  | MAT.    | AF<br>inch | L (mm) | g   |
|-------|-------|-------|---------|------------|--------|-----|
| 72406 | Cu-Be | 72407 | Al-Bron | 3/4        | 300    | 600 |


**MANGO ACODADO / OFFSET HANDLE / MANCHE CONTRE COUDÉ / GEKRÖPFTE HANDGRIFF / DOPPIO MANICO / CABO DESALINHADO / ИЗОГНУТАЯ РУКОЯТКА**

| COD.  | MAT.  | COD.  | MAT.    | AF<br>inch | L (mm) | g   |
|-------|-------|-------|---------|------------|--------|-----|
| 72412 | Cu-Be | 72413 | Al-Bron | 3/4        | 280    | 700 |


**ALARGADERA / EXTENSION / RALLONGE / VERLÄNGERUNG / PROLUNGA / EXTENÇÃO / УДЛИНИТЕЛЬ**

| COD.  | MAT.  | COD.  | MAT.    | AF<br>inch | L (inch) | g    |
|-------|-------|-------|---------|------------|----------|------|
| 70386 | Cu-Be | 71282 | Al-Bron | 3/4        | 4        | 200  |
| 70387 |       | 71283 |         |            | 8        | 400  |
| 70388 |       | 71284 |         |            | 10       | 500  |
| 75487 |       | 75488 |         |            | 16       | 1590 |


**ARTICULACIÓN UNIVERSAL / UNIVERSAL JOINT / CARDAN UNIVERSEL / KARDANGELNK / SNODO CARDANICO / CARDAN UNIVERSAL / КАРДАННОЕ СОЕДИНЕНИЕ**

| COD.  | MAT.  | COD.  | MAT.    | AF<br>inch | L (mm) | g   |
|-------|-------|-------|---------|------------|--------|-----|
| 70373 | Cu-Be | 71270 | Al-Bron | 3/4        | 135    | 600 |


**ARTICULACIÓN FLEXIBLE / FLEXIBLE JOINT / ARTICULATION FLEXIBLE / FLEXIBLE VERBINDUNG / ARTICOLAZIONE FLESSIBILE / ARTICULAÇÃO FLEXÍVEL / ГИБКОЕ СОЕДИНЕНИЕ**

| COD.  | MAT.  | COD.  | MAT.    | AF<br>inch | L (mm) | I.D.<br>mm | g   |
|-------|-------|-------|---------|------------|--------|------------|-----|
| 72396 | Cu-Be | 72397 | Al-Bron | 3/4        | 120    | 21         | 800 |


**ADAPTADOR / ADAPTER / ADAPTATEUR / VERBINDUNGSTEILE / ADATTATORE / PEÇA DE CONEXÃO / АДАПТЕР**

| COD.  | MAT.  | COD.  | MAT.    | AF<br>inch | AF<br>inch | g   |
|-------|-------|-------|---------|------------|------------|-----|
| 70368 | Cu-Be | 71265 | Al-Bron | 3/4-1/2    |            | 200 |
| 70371 |       | 71268 |         | 3/4-1      |            | 410 |



# 37

**ANTICHISPA  
NON-SPARKING  
ANTIDÉFLAGRANT  
FUNKENFREI  
ANTISCINTILLA  
ANTI-DEFLAGRANTE  
ИСКРБЕЗОПАСНЫЙ**



- 1"
- STANDARD
- MM
- 6 PT.

- 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g    |
|-------|-------|-------|---------|-------|--------|----|------|
| 75772 |       | 75773 |         | 22    |        |    | 330  |
| 75774 |       | 75775 |         | 24    |        |    | 340  |
| 75776 |       | 75777 |         | 25    |        |    | 350  |
| 75778 |       | 75779 |         | 26    | 55     |    | 360  |
| 75780 |       | 75781 |         | 27    |        |    | 370  |
| 75782 |       | 75783 |         | 28    |        |    | 370  |
| 75784 |       | 75785 |         | 29    |        |    | 400  |
| 75786 |       | 75787 |         | 30    |        |    | 410  |
| 75788 |       | 75789 |         | 31    |        |    | 440  |
| 75790 |       | 75791 |         | 32    | 60     |    | 450  |
| 75792 |       | 75793 |         | 34    |        |    | 460  |
| 75794 |       | 75795 |         | 36    |        |    | 500  |
| 75796 |       | 75797 |         | 38    |        |    | 600  |
| 70353 | Cu-Be | 71250 | Al-Bron | 41    | 65     | 6  | 700  |
| 70354 |       | 71251 |         | 42    |        |    | 800  |
| 70355 |       | 71252 |         | 46    | 70     |    | 1000 |
| 70356 |       | 71253 |         | 50    | 75     |    | 1100 |
| 70357 |       | 71254 |         | 55    | 80     |    | 1400 |
| 70358 |       | 71255 |         | 60    | 85     |    | 1500 |
| 70359 |       | 71256 |         | 65    | 90     |    | 2000 |
| 70360 |       | 71257 |         | 70    | 95     |    | 2200 |
| 70361 |       | 71258 |         | 75    |        |    | 4600 |
| 70362 |       | 71259 |         | 80    |        |    | 4800 |
| 70363 |       | 71260 |         | 85    |        |    | 4900 |
| 70364 |       | 71261 |         | 90    |        |    | 5000 |
| 70365 |       | 71262 |         | 95    |        |    | 5200 |
| 70366 |       | 71263 |         | 100   |        |    |      |
| 70367 |       | 71264 |         | 105   |        |    |      |

| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g    |
|-------|-------|-------|---------|-------|--------|----|------|
| 75828 |       | 75829 |         | 22    |        |    | 330  |
| 75830 |       | 75831 |         | 24    |        |    | 340  |
| 75832 |       | 75833 |         | 25    |        |    | 350  |
| 75834 |       | 75835 |         | 26    | 55     |    | 360  |
| 75836 |       | 75837 |         | 27    |        |    | 370  |
| 75838 |       | 75839 |         | 28    |        |    | 370  |
| 75840 |       | 75841 |         | 29    |        |    | 400  |
| 75842 |       | 75843 |         | 30    |        |    | 410  |
| 75844 |       | 75845 |         | 31    |        |    | 440  |
| 75846 |       | 75847 |         | 32    | 60     |    | 450  |
| 75848 |       | 75849 |         | 34    |        |    | 460  |
| 75850 |       | 75851 |         | 36    |        |    | 500  |
| 75852 |       | 75853 |         | 38    |        |    | 600  |
| 74578 | Cu-Be | 74593 | Al-Bron | 41    | 65     | 12 | 700  |
| 74579 |       | 74594 |         | 42    |        |    | 800  |
| 74580 |       | 74595 |         | 46    | 70     |    | 1000 |
| 74581 |       | 74596 |         | 50    | 75     |    | 1100 |
| 74582 |       | 74597 |         | 55    | 80     |    | 1400 |
| 74583 |       | 74598 |         | 60    | 85     |    | 1500 |
| 74584 |       | 74599 |         | 65    | 90     |    | 2000 |
| 74585 |       | 74600 |         | 70    | 95     |    | 2200 |
| 74586 |       | 74601 |         | 75    |        |    | 4600 |
| 74587 |       | 74602 |         | 80    |        |    | 4800 |
| 74588 |       | 74603 |         | 85    |        |    | 4900 |
| 74589 |       | 74604 |         | 90    |        |    | 5000 |
| 74590 |       | 74605 |         | 95    |        |    | 5200 |
| 74591 |       | 74606 |         | 100   |        |    |      |
| 74592 |       | 74607 |         | 105   |        |    |      |

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Аллюминий Бронза

# 37

**ANTICHISPA  
NON-SPARKING  
ANTIDÉFLAGRANT  
FUNKENFREI  
ANTISCINTILLA  
ANTI-DEFLAGRANTE  
ИСКРОБЕЗОПАСНЫЙ**



- 1"
- STANDARD
- INCH
- 6 PT.

- 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g    |
|-------|-------|-------|---------|---------|--------|----|------|
| 75798 |       | 75799 |         | 1.1/16  | 55     |    | 360  |
| 75800 |       | 75801 |         | 1.1/8   |        |    |      |
| 75802 |       | 75803 |         | 1.3/16  | 60     |    | 400  |
| 75804 |       | 75805 |         | 1.1/4   |        |    |      |
| 75806 |       | 75807 |         | 1.5/16  | 65     |    | 440  |
| 75808 |       | 75809 |         | 1.3/8   |        |    |      |
| 75810 |       | 75811 |         | 1.7/16  | 70     |    | 460  |
| 75812 |       | 75813 |         | 1.1/2   |        |    |      |
| 75814 |       | 75815 |         | 1.5/8   | 75     |    | 500  |
| 77828 |       | 77829 |         | 1.13/16 |        |    |      |
| 75816 | Cu-Be | 75817 | Al-Bron | 1.7/8   | 80     | 6  | 700  |
| 75818 |       | 75819 |         | 2       |        |    |      |
| 77830 |       | 77831 |         | 2.1/8   | 1400   |    | 850  |
| 75820 |       | 75821 |         | 2.1/4   |        |    |      |
| 77832 |       | 77833 |         | 2.3/8   | 80     |    | 1000 |
| 75822 |       | 75823 |         | 2.1/2   |        |    |      |
| 77834 |       | 77835 |         | 2.9/16  | 1500   |    | 1250 |
| 75824 |       | 75825 |         | 2.3/4   |        |    |      |
| 77836 |       | 77837 |         | 2.15/16 | 2300   |    | 1400 |
| 75826 |       | 75827 |         | 3       |        |    |      |
| 77838 |       | 77839 |         | 3.1/8   |        |    |      |

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g    |
|-------|-------|-------|---------|---------|--------|----|------|
| 75854 |       | 75855 |         | 1.1/16  | 55     |    | 360  |
| 75856 |       | 75857 |         | 1.1/8   |        |    |      |
| 75858 |       | 75859 |         | 1.3/16  | 60     |    | 400  |
| 75860 |       | 75861 |         | 1.1/4   |        |    |      |
| 75862 |       | 75863 |         | 1.5/16  | 65     |    | 430  |
| 75864 |       | 75865 |         | 1.3/8   |        |    |      |
| 75866 |       | 75867 |         | 1.7/16  | 70     |    | 440  |
| 75868 |       | 75869 |         | 1.1/2   |        |    |      |
| 75870 |       | 75871 |         | 1.5/8   | 75     |    | 460  |
| 77840 |       | 77841 |         | 1.13/16 |        |    |      |
| 75872 | Cu-Be | 75873 | Al-Bron | 1.7/8   | 80     | 12 | 700  |
| 75874 |       | 75875 |         | 2       |        |    |      |
| 77842 |       | 77843 |         | 2.1/8   | 1400   |    | 850  |
| 75876 |       | 75877 |         | 2.1/4   |        |    |      |
| 77844 |       | 77845 |         | 2.3/8   | 80     |    | 1000 |
| 75878 |       | 75879 |         | 2.1/2   |        |    |      |
| 77846 |       | 77847 |         | 2.9/16  | 1500   |    | 1250 |
| 75880 |       | 75881 |         | 2.3/4   |        |    |      |
| 77848 |       | 77849 |         | 2.15/16 | 2300   |    | 1400 |
| 75882 |       | 75883 |         | 3       |        |    |      |
| 77850 |       | 77851 |         | 3.1/8   |        |    |      |

# BE SAFE...BE EFFICIENT

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Аллюминий Бронза

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 Si vous ne trouvez pas l'article que vous desirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)



# 37

**ANTICHISPA  
NON-SPARKING  
ANTIDÉFLAGRANT  
FUNKENFREI  
ANTISCINTILLA  
ANTI-DEFLAGRANTE  
ИСКРБЕЗОПАСНЫЙ**



■ 1"

■ SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

■ MM

■ 6 PT.

■ 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt   | g |
|-------|-------|-------|---------|-------|--------|------|---|
| 35370 |       | 35371 |         | 22    |        |      |   |
| 35372 |       | 35373 |         | 24    |        |      |   |
| 35374 |       | 35375 |         | 25    |        |      |   |
| 35376 |       | 35377 |         | 26    |        |      |   |
| 35378 |       | 35379 |         | 27    |        | 800  |   |
| 35380 |       | 35381 |         | 28    |        |      |   |
| 35382 |       | 35383 |         | 29    |        |      |   |
| 35384 |       | 35385 |         | 30    | 100    |      |   |
| 35386 |       | 35387 |         | 31    |        |      |   |
| 35388 |       | 35389 |         | 32    |        |      |   |
| 35390 |       | 35391 |         | 34    |        | 850  |   |
| 35392 |       | 35393 |         | 36    |        | 900  |   |
| 35394 |       | 35395 |         | 38    |        | 950  |   |
| 35396 | Cu-Be | 35397 | Al-Bron | 41    |        | 1000 |   |
| 35398 |       | 35399 |         | 42    |        | 1050 | 6 |
| 35400 |       | 35401 |         | 46    |        | 1250 |   |
| 35402 |       | 35403 |         | 50    | 115    | 1450 |   |
| 35404 |       | 35405 |         | 55    | 125    | 1750 |   |
| 35406 |       | 35407 |         | 60    |        | 2100 |   |
| 35408 |       | 35409 |         | 65    |        | 2600 |   |
| 35410 |       | 35411 |         | 70    | 135    | 3050 |   |
| 35412 |       | 35413 |         | 75    |        | 3850 |   |
| 35414 |       | 35415 |         | 80    |        | 4300 |   |
| 35416 |       | 35417 |         | 85    |        | 4600 |   |
| 35418 |       | 35419 |         | 90    | 140    | 4900 |   |
| 35420 |       | 35421 |         | 95    |        | 5300 |   |
| 35422 |       | 35423 |         | 100   |        | 5750 |   |
| 35424 |       | 35425 |         | 105   |        | 6200 |   |

| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt   | g  |
|-------|-------|-------|---------|-------|--------|------|----|
| 35468 |       | 35469 |         | 22    |        |      |    |
| 35470 |       | 35471 |         | 24    |        |      |    |
| 35472 |       | 35473 |         | 25    |        |      |    |
| 35474 |       | 35475 |         | 26    |        |      |    |
| 35476 |       | 35477 |         | 27    |        | 800  |    |
| 35478 |       | 35479 |         | 28    |        |      |    |
| 35480 |       | 35481 |         | 29    |        |      |    |
| 35482 |       | 35483 |         | 30    | 100    |      |    |
| 35484 |       | 35485 |         | 31    |        |      |    |
| 35486 |       | 35487 |         | 32    |        |      |    |
| 35488 |       | 35489 |         | 34    |        | 850  |    |
| 35490 |       | 35491 |         | 36    |        | 900  |    |
| 35492 |       | 35493 |         | 38    |        | 950  |    |
| 35494 | Cu-Be | 35495 | Al-Bron | 41    |        | 1000 |    |
| 35496 |       | 35497 |         | 42    |        | 1050 | 12 |
| 35498 |       | 35499 |         | 46    |        | 1250 |    |
| 35500 |       | 35501 |         | 50    | 115    | 1450 |    |
| 35502 |       | 35503 |         | 55    | 125    | 1750 |    |
| 35504 |       | 35505 |         | 60    |        | 2100 |    |
| 35506 |       | 35507 |         | 65    |        | 2600 |    |
| 35508 |       | 35509 |         | 70    | 135    | 3050 |    |
| 35510 |       | 35511 |         | 75    |        | 3850 |    |
| 35512 |       | 35513 |         | 80    |        | 4300 |    |
| 35514 |       | 35515 |         | 85    |        | 4600 |    |
| 35516 |       | 35517 |         | 90    | 140    | 4900 |    |
| 35518 |       | 35519 |         | 95    |        | 5300 |    |
| 35520 |       | 35521 |         | 100   |        | 5750 |    |
| 35522 |       | 35523 |         | 105   |        | 6200 |    |

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

■ 1"

■ SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

■ INCH

■ 6 PT.

■ 12 PT.



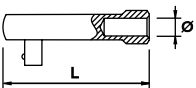
| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g    | COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g    |
|-------|-------|-------|---------|---------|--------|----|------|-------|-------|-------|---------|---------|--------|----|------|
| 35426 |       | 35427 |         | 1.1/16  |        |    |      | 35524 |       | 35525 |         | 1.1/16  |        |    |      |
| 35428 |       | 35429 |         | 1.1/8   |        |    |      | 35526 |       | 35527 |         | 1.1/8   |        |    |      |
| 35430 |       | 35431 |         | 1.3/16  |        |    | 800  | 35528 |       | 35529 |         | 1.3/16  |        |    |      |
| 35432 |       | 35433 |         | 1.1/4   |        |    |      | 35530 |       | 35531 |         | 1.1/4   |        |    |      |
| 35434 |       | 35435 |         | 1.5/16  | 100    |    | 850  | 35532 |       | 35533 |         | 1.5/16  | 100    |    | 850  |
| 35436 |       | 35437 |         | 1.3/8   |        |    |      | 35534 |       | 35535 |         | 1.3/8   |        |    |      |
| 35438 |       | 35439 |         | 1.7/16  |        |    | 900  | 35536 |       | 35537 |         | 1.7/16  |        |    | 900  |
| 35440 |       | 35441 |         | 1.1/2   |        |    | 950  | 35538 |       | 35539 |         | 1.1/2   |        |    | 950  |
| 35442 |       | 35443 |         | 1.5/8   |        |    | 1000 | 35540 |       | 35541 |         | 1.5/8   |        |    | 1000 |
| 35444 |       | 35445 |         | 1.13/16 |        |    | 1250 | 35542 |       | 35543 |         | 1.13/16 |        |    | 1250 |
| 35446 | Cu-Be | 35447 | Al-Bron | 1.7/8   | 115    | 6  | 1300 | 35544 | Cu-Be | 35545 | Al-Bron | 1.7/8   | 115    | 12 | 1300 |
| 35448 |       | 35449 |         | 2       |        |    | 1450 | 35546 |       | 35547 |         | 2       |        |    | 1450 |
| 35450 |       | 35451 |         | 2.1/8   |        |    | 1650 | 35548 |       | 35549 |         | 2.1/8   |        |    | 1650 |
| 35452 |       | 35453 |         | 2.1/4   | 125    |    | 1800 | 35550 |       | 35551 |         | 2.1/4   | 125    |    | 1800 |
| 35454 |       | 35455 |         | 2.3/8   |        |    | 2100 | 35552 |       | 35553 |         | 2.3/8   |        |    | 2100 |
| 35456 |       | 35457 |         | 2.1/2   |        |    | 2300 | 35554 |       | 35555 |         | 2.1/2   |        |    | 2300 |
| 35458 |       | 35459 |         | 2.9/16  | 135    |    | 2600 | 35556 |       | 35557 |         | 2.9/16  | 135    |    | 2600 |
| 35460 |       | 35461 |         | 2.3/4   |        |    | 3050 | 35558 |       | 35559 |         | 2.3/4   |        |    | 3050 |
| 35462 |       | 35463 |         | 2.15/16 |        |    | 3850 | 35560 |       | 35561 |         | 2.15/16 |        |    | 3850 |
| 35464 |       | 35465 |         | 3       | 140    |    | 4000 | 35562 |       | 35563 |         | 3       | 140    |    | 4000 |
| 35466 |       | 35467 |         | 3.1/8   |        |    | 4300 | 35564 |       | 35565 |         | 3.1/8   |        |    | 4300 |

**LLAVE DE CARRACA REVERSIBLE / REVERSIBLE RATCHET HANDLE / CLÉ À CLIQUET RÉVERSIBLE / UMSCHALTKNARRE / CHIAVE A CRICCO REVERSIBILE / ROQUETE REVERSIVEL / РЕВЕРСИВНАЯ ТРЕЩЕТКА**

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | g    |
|-------|-------|-------|---------|---------|--------|------|
| 72630 | Cu-Be | 72629 | Al-Bron | 1       | 550    | 1600 |



**CABEZA DE CARRACA / RATCHET HEAD / TÊTE À CLIQUET / RATSCHEN KOPF / TESTA A CRICCO / CABEÇA DE ROQUETE / ГОЛОВКА ТРЕЩЕТКИ**



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | O.D. mm | g    |
|-------|-------|-------|---------|---------|--------|---------|------|
| 73714 | Cu-Be | 73715 | Al-Bron | 1       | 180    | 23      | 3000 |



**CARRACA MACHO-HEMBRA / MALE-FEMALE RATCHET / CLIQUET MALE-FEMELLE / RATSCHEN DOPPELT FUNKTION / CRICCO MASCHIO-FEMMINA / ROQUETE MACHO-FÊMEA / ТРЕЩЕТКА ПАПА-МАМА**



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | g    |
|-------|-------|-------|---------|---------|--------|------|
| 73728 | Cu-Be | 73729 | Al-Bron | 1       | 300    | 1000 |





**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза



1"

**MANGO CORREDIZO EN "T" / SLIDING "T" HANDLE / POIGNÉE COULISSANTE / T-GLEITGRIF / ASTA CON QUADRO SCORREVOLE "T" / CABO "T" CORREDIÇO / Т-ОБРАЗНАЯ С ПЛАВАЮЩЕЙ РУЧКОЙ**




| COD.  | MAT.  | COD.  | MAT.    |  inch | L (inch) |  |
|-------|-------|-------|---------|----------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------|
| 70382 | Cu-Be | 71278 | Al-Bron | 1                                                                                      | 12       | 2300                                                                               |

| COD.  | MAT.  | COD.  | MAT.    |  inch | L (mm) | H (mm) |  |
|-------|-------|-------|---------|----------------------------------------------------------------------------------------|--------|--------|-------------------------------------------------------------------------------------|
| 73719 | Cu-Be | 73720 | Al-Bron | 1                                                                                      | 400    | 190    | 2400                                                                                |




**ALARGADERA / EXTENSION / RALLONGE / VERLÄNGERUNG / PROLUNGA / EXTENÇÃO / УДЛИНИТЕЛЬ**

| COD.  | MAT.  | COD.  | MAT.    |  inch | L (inch) |  |
|-------|-------|-------|---------|----------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------|
| 70389 | Cu-Be | 71285 | Al-Bron | 1                                                                                      | 4        | 400                                                                                |
| 70390 | Cu-Be | 71286 | Al-Bron | 1                                                                                      | 10       | 800                                                                                |


**ADAPTADOR / ADAPTER / ADAPTATEUR / VERBINDUNGSTEILE / ADATTATORE / PEÇA DE CONEXÃO / АДАПТЕР**

| COD.  | MAT.  | COD.  | MAT.    |  inch  inch |  |
|-------|-------|-------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 70370 | Cu-Be | 71267 | Al-Bron | 1-3/4                                                                                                                                                                         | 600                                                                                |




**ARTICULACIÓN UNIVERSAL / UNIVERSAL JOINT / CARDAN UNIVERSEL / KARDANGELNENK / SNODO CARDANICO / CARDAN UNIVERSAL / КАРДАННОЕ СОЕДИНЕНИЕ**

| COD.  | MAT.  | COD.  | MAT.    |  inch | L (mm) |  |
|-------|-------|-------|---------|------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------|
| 70374 | Cu-Be | 71271 | Al-Bron | 1                                                                                        | 145    | 1300                                                                                 |


**ARTICULACIÓN FLEXIBLE / FLEXIBLE JOINT / ARTICULATION FLEXIBLE / FLEXIBLE VERBINDUNG / ARTICOLAZIONE FLESSIBILE / ARTICULAÇÃO FLEXÍVEL / ГИБКОЕ СОЕДИНЕНИЕ**

| COD.  | MAT.  | COD.  | MAT.    |  inch | L (mm) |  mm |  |
|-------|-------|-------|---------|------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 72398 | Cu-Be | 72399 | Al-Bron | 1                                                                                        | 120    | 21                                                                                     | 1100                                                                                  |


**MANGO ARTICULADO / SWIVEL HANDLE / MANCHE ARTICULÉ / GELENKGRIF / MANICO ARTICOLATO / CABO ARTICULADO / ГИБКАЯ РУКОЯТКА**

| COD.  | MAT.  | COD.  | MAT.    |  inch | L (mm) |  |
|-------|-------|-------|---------|------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------|
| 72408 | Cu-Be | 72409 | Al-Bron | 1                                                                                        | 315    | 850                                                                                  |


**MANGO ACODADO / OFFSET HANDLE / MANCHE CONTRE COUDÉ / GEKRÖPFTE HANDGRIF / DOPPIO MANICO / CABO DESALINHADO / ИЗОГНУТАЯ РУКОЯТКА**

| COD.  | MAT.  | COD.  | MAT.    |  inch | L (mm) |  |
|-------|-------|-------|---------|------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------|
| 72414 | Cu-Be | 72415 | Al-Bron | 1                                                                                        | 300    | 1100                                                                                 |



## ■ SET

## ■ 1/2"

## ■ 9 PCS.

| COD.         | MAT.  | AF inch | PCS. | COD. PCS.                                              | AF mm                   | AF inch | Kg  |
|--------------|-------|---------|------|--------------------------------------------------------|-------------------------|---------|-----|
| <b>74263</b> | Cu-Be | 1/2     | 9    | 74452, 74453, 74454, 74456, 74459, 74461, 74464, 74466 | 10-11-12-14-17-19-22-24 | -       | 1,4 |

| PCS. | Composición / Composition / Composition                | Descripción / Description / Description | AF mm                   | AF inch | Kg |
|------|--------------------------------------------------------|-----------------------------------------|-------------------------|---------|----|
| 8    | 74452, 74453, 74454, 74456, 74459, 74461, 74464, 74466 | Llaves de vaso / Socket wrenches        | 10-11-12-14-17-19-22-24 | 1/2"    |    |
| 1    | 72410                                                  | Mango acodado / Offset handle           | 230 mm, 400 g           |         |    |

| COD.         | MAT.  | AF inch | PCS. | COD. PCS.                                              | AF mm | AF inch                                         | Kg  |
|--------------|-------|---------|------|--------------------------------------------------------|-------|-------------------------------------------------|-----|
| <b>35810</b> | Cu-Be | 1/2     | 9    | 74504, 74505, 74506, 74509, 74510, 74511, 74514, 74515 | -     | 3/8"-7/16"-1/2"-5/8"-11/16"-3/4"<br>7/8"-15/16" | 1,4 |

| PCS. | Composición / Composition / Composition                | Descripción / Description / Description | AF mm                                           | AF inch | Kg |
|------|--------------------------------------------------------|-----------------------------------------|-------------------------------------------------|---------|----|
| 8    | 74504, 74505, 74506, 74509, 74510, 74511, 74514, 74515 | Llaves de vaso / Socket wrenches        | 3/8"-7/16"-1/2"-5/8"-11/16"-3/4"<br>7/8"-15/16" | 1/2"    |    |
| 1    | 72410                                                  | Mango acodado / Offset handle           | 230 mm, 400 g                                   |         |    |

| COD.         | MAT.    | AF inch | PCS. | COD. PCS.                                              | AF mm                   | AF inch | Kg  |
|--------------|---------|---------|------|--------------------------------------------------------|-------------------------|---------|-----|
| <b>74264</b> | Al-Bron | 1/2     | 9    | 74479, 74480, 74481, 74483, 74486, 74488, 74491, 74493 | 10-11-12-14-17-19-22-24 | -       | 1,4 |

| PCS. | Composición / Composition / Composition                | Descripción / Description / Description | AF mm                   | AF inch | Kg |
|------|--------------------------------------------------------|-----------------------------------------|-------------------------|---------|----|
| 8    | 74479, 74480, 74481, 74483, 74486, 74488, 74491, 74493 | Llaves de vaso / Socket wrenches        | 10-11-12-14-17-19-22-24 | 1/2"    |    |
| 1    | 72411                                                  | Mango acodado / Offset handle           | 230 mm, 400 g           |         |    |

| COD.         | MAT.    | AF inch | PCS. | COD. PCS.                                              | AF mm | AF inch                                         | Kg  |
|--------------|---------|---------|------|--------------------------------------------------------|-------|-------------------------------------------------|-----|
| <b>35819</b> | Al-Bron | 1/2     | 9    | 74522, 74523, 74524, 74527, 74528, 74529, 74532, 74533 | -     | 3/8"-7/16"-1/2"-5/8"-11/16"-3/4"<br>7/8"-15/16" | 1,4 |

| PCS. | Composición / Composition / Composition                | Descripción / Description / Description | AF mm                                           | AF inch | Kg |
|------|--------------------------------------------------------|-----------------------------------------|-------------------------------------------------|---------|----|
| 8    | 74522, 74523, 74524, 74527, 74528, 74529, 74532, 74533 | Llaves de vaso / Socket wrenches        | 3/8"-7/16"-1/2"-5/8"-11/16"-3/4"<br>7/8"-15/16" | 1/2"    |    |
| 1    | 72411                                                  | Mango acodado / Offset handle           | 230 mm, 400 g                                   |         |    |

## ■ 12 PCS.




| COD.         | MAT.  | AF inch | PCS. | COD. PCS.                                                            | AF mm                        | AF inch | Kg  |
|--------------|-------|---------|------|----------------------------------------------------------------------|------------------------------|---------|-----|
| <b>74265</b> | Cu-Be | 1/2     | 12   | 74450, 74452, 74453, 74454, 74456, 74459, 74461, 74464, 74466, 74469 | 8-10-11-12-14-17-19-22-24-27 | -       | 2,3 |

| PCS. | Composición / Composition / Composition                              | Descripción / Description / Description | AF mm                        | AF inch | Kg |
|------|----------------------------------------------------------------------|-----------------------------------------|------------------------------|---------|----|
| 10   | 74450, 74452, 74453, 74454, 74456, 74459, 74461, 74464, 74466, 74469 | Llave de vaso / Socket wrenches         | 8-10-11-12-14-17-19-22-24-27 | 1/2"    |    |
| 1    | 72400                                                                | Mango Articulado / Offset handle        | 230 mm, 330 g                |         |    |
|      | 70375                                                                | Carraca / Ratchet                       | 250 mm, 600 g                |         |    |






**1/2" - 12 PCS.**




| COD.         | MAT.  | AF  | inch | PCS. | COD. PCS.                                                            | AF | mm | AF                                                         | inch | Kg  |
|--------------|-------|-----|------|------|----------------------------------------------------------------------|----|----|------------------------------------------------------------|------|-----|
| <b>35811</b> | Cu-Be | 1/2 |      | 12   | 74503, 74504, 74505, 74506, 74509, 74510, 74511, 74514, 74515, 74517 | -  |    | 5/16"-3/8"-7/16"-1/2"-5/8"-11/16"-3/4"-7/8"-15/16"-1.1/16" |      | 2,3 |

| PCS. | Composición / Composition / Composition                              | Descripción / Description / Description |                                                            |                                                                                     |
|------|----------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 10   | 74503, 74504, 74505, 74506, 74509, 74510, 74511, 74514, 74515, 74517 | Llave de vaso / Socket wrenches         | 5/16"-3/8"-7/16"-1/2"-5/8"-11/16"-3/4"-7/8"-15/16"-1.1/16" |    |
| 1    | 72400                                                                | Mango articulado / Offset handle        | 230 mm, 330 g                                              |  |
|      | 70375                                                                | Carraca / Ratchet                       | 250 mm, 600 g                                              |  |

| COD.         | MAT.    | AF  | inch | PCS. | COD. PCS.                                                            | AF | mm                           | AF | inch | Kg  |
|--------------|---------|-----|------|------|----------------------------------------------------------------------|----|------------------------------|----|------|-----|
| <b>74266</b> | Al-Bron | 1/2 |      | 12   | 74477, 74479, 74480, 74481, 74483, 74486, 74488, 74491, 74493, 74496 | -  | 8-10-11-12-14-17-19-22-24-27 |    |      | 2,3 |






| PCS. | Composición / Composition / Composition                              | Descripción / Description / Description |                              |                                                                                      |
|------|----------------------------------------------------------------------|-----------------------------------------|------------------------------|--------------------------------------------------------------------------------------|
| 10   | 74477, 74479, 74480, 74481, 74483, 74486, 74488, 74491, 74493, 74496 | Llaves de vaso / Socket wrenches        | 8-10-11-12-14-17-19-22-24-27 |     |
| 1    | 72401                                                                | Mango articulado / Offset handle        | 230 mm, 330 g                |   |
|      | 71272                                                                | Carraca / Ratchet                       | 250 mm, 600 g                |  |

| COD.         | MAT.    | AF  | inch | PCS. | COD. PCS.                                                            | AF | mm                                                         | AF | inch | Kg  |
|--------------|---------|-----|------|------|----------------------------------------------------------------------|----|------------------------------------------------------------|----|------|-----|
| <b>35820</b> | Al-Bron | 1/2 |      | 12   | 74521, 74522, 74523, 74524, 74527, 74528, 74529, 74532, 74533, 74535 | -  | 5/16"-3/8"-7/16"-1/2"-5/8"-11/16"-3/4"-7/8"-15/16"-1.1/16" |    |      | 2,3 |

| PCS. | Composición / Composition / Composition                              | Descripción / Description / Description |                                                            |                                                                                       |
|------|----------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 10   | 74521, 74522, 74523, 74524, 74527, 74528, 74529, 74532, 74533, 74535 | Llaves de vaso / Socket wrenches        | 5/16"-3/8"-7/16"-1/2"-5/8"-11/16"-3/4"-7/8"-15/16"-1.1/16" |    |
| 1    | 72401                                                                | Mango articulado / Offset handle        | 230 mm, 330 g                                              |  |
|      | 71272                                                                | Carraca / Ratchet                       | 250 mm, 600 g                                              |  |

**16 PCS.**

| COD.         | MAT.  | AF  | inch | PCS. | COD. PCS.                                                                          | AF | mm                               | AF | inch | Kg  |
|--------------|-------|-----|------|------|------------------------------------------------------------------------------------|----|----------------------------------|----|------|-----|
| <b>74267</b> | Cu-Be | 1/2 |      | 16   | 74452, 74453, 74454, 74456, 74459, 74461, 74464, 74466, 74469, 74472, 74473, 76490 | -  | 10-11-12-14-17-19-22-24-27-30-32 |    |      | 4,5 |

| PCS. | Composición / Composition / Composition                                     | Descripción / Description / Description |                                  |                                                                                       |
|------|-----------------------------------------------------------------------------|-----------------------------------------|----------------------------------|---------------------------------------------------------------------------------------|
| 11   | 74452, 74453, 74454, 74456, 74459, 74461, 74464, 74466, 74469, 74472, 74473 | Llaves de vaso / Socket wrenches        | 10-11-12-14-17-19-22-24-27-30-32 |    |
| 1    | 70375                                                                       | Carraca / Ratchet                       | 250 mm                           |  |
| 2    | 76490, 70385                                                                | Alargadera / Extension                  | 125-250 mm                       |  |
|      | 72416                                                                       | Berbiqui / Speeder handle               | 390 mm                           |  |
| 1    | 70378                                                                       | Mango corredizo en T / Sliding T handle | 250 mm                           |  |

| COD.         | MAT.  | AF  | inch | PCS. | COD. PCS.                                                                          | AF | mm                                                                  | AF | inch | Kg  |
|--------------|-------|-----|------|------|------------------------------------------------------------------------------------|----|---------------------------------------------------------------------|----|------|-----|
| <b>35812</b> | Cu-Be | 1/2 |      | 16   | 74504, 74505, 74506, 74509, 74510, 74511, 74514, 74515, 74517, 77790, 74519, 76490 | -  | 3/8"-7/16"-1/2"-5/8"-11/16"-3/4"-7/8"-15/16"-1.1/16"-1.3/16"-1.1/4" |    |      | 4,5 |





### 1/2" - 16 PCS.

| PCS. | Composición / Composition / Composition                                     | Descripción / Description / Description |                                                                     |  |
|------|-----------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------|--|
| 11   | 74504, 74505, 74506, 74509, 74510, 74511, 74514, 74515, 74517, 77790, 74519 | Llaves de vaso / Socket wrenches        | 3/8"-7/16"-1/2"-5/8"-11/16"-3/4"-7/8"-15/16"-1.1/16"-1.3/16"-1.1/4" |  |
| 1    | 70375                                                                       | Carraca / Ratchet                       | 250 mm                                                              |  |
| 2    | 76490, 70385                                                                | Alargadera / Extension                  | 125-250 mm                                                          |  |
|      | 72416                                                                       | Berbiqui / Speeder handle               | 390 mm                                                              |  |
| 1    | 70378                                                                       | Mango corredizo en T / Sliding T handle | 250 mm                                                              |  |

| COD.         | MAT.    | AF  | inch | PCS. | COD. PCS.                                                                          | AF | mm | AF | inch | Kg  |
|--------------|---------|-----|------|------|------------------------------------------------------------------------------------|----|----|----|------|-----|
| <b>74268</b> | Al-Bron | 1/2 |      | 16   | 74479, 74480, 74481, 74483, 74486, 74488, 74491, 74493, 74496, 74499, 74500, 76491 | -  |    |    |      | 4,5 |

| PCS. | Composición / Composition / Composition                                     | Descripción / Description / Description |                                  |  |
|------|-----------------------------------------------------------------------------|-----------------------------------------|----------------------------------|--|
| 11   | 74479, 74480, 74481, 74483, 74486, 74488, 74491, 74493, 74496, 74499, 74500 | Llaves de vaso / Socket wrenches        | 10-11-12-14-17-19-22-24-27-30-32 |  |
| 1    | 71272                                                                       | Carraca / Ratchet                       | 250 mm                           |  |
| 2    | 76491, 71281                                                                | Alargadera / Extension                  | 125-250 mm                       |  |
|      | 72417                                                                       | Berbiqui / Speeder handle               | 390 mm                           |  |
| 1    | 71274                                                                       | Mango corredizo en T / Sliding T handle | 250 mm                           |  |

| COD.         | MAT.    | AF  | inch | PCS. | COD. PCS.                                                                          | AF | mm | AF | inch | Kg  |
|--------------|---------|-----|------|------|------------------------------------------------------------------------------------|----|----|----|------|-----|
| <b>35821</b> | Al-Bron | 1/2 |      | 16   | 74522, 74523, 74524, 74527, 74528, 74529, 74532, 74533, 74535, 77791, 74537, 76491 | -  |    |    |      | 4,5 |

| PCS. | Composición / Composition / Composition                                     | Descripción / Description / Description |                                                                     |  |
|------|-----------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------|--|
| 11   | 74522, 74523, 74524, 74527, 74528, 74529, 74532, 74533, 74535, 77791, 74537 | Llaves de vaso / Socket wrenches        | 3/8"-7/16"-1/2"-5/8"-11/16"-3/4"-7/8"-15/16"-1.1/16"-1.3/16"-1.1/4" |  |
| 1    | 71272                                                                       | Carraca / Ratchet                       | 250 mm                                                              |  |
| 2    | 76491, 71281                                                                | Alargadera / Extension                  | 125-250 mm                                                          |  |
|      | 72417                                                                       | Berbiqui / Speeder handle               | 390 mm                                                              |  |
| 1    | 71274                                                                       | Mango corredizo en T / Sliding T handle | 250 mm                                                              |  |

### 24 PCS.

| COD.         | MAT.  | AF  | inch | PCS. | COD. PCS.                                                                                                                           | AF | mm | AF | inch | Kg  |
|--------------|-------|-----|------|------|-------------------------------------------------------------------------------------------------------------------------------------|----|----|----|------|-----|
| <b>74269</b> | Cu-Be | 1/2 |      | 24   | 74452, 74453, 74454, 74455, 74456, 74457, 74458, 74459, 74460, 74461, 74462, 74463, 74464, 74465, 74466, 74469, 74472, 74473, 76490 | -  |    |    |      | 5,5 |

| PCS. | Composición / Composition / Composition                                                                                      | Descripción / Description / Description |                                                       |  |
|------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------|--|
| 18   | 74452, 74453, 74454, 74455, 74456, 74457, 74458, 74459, 74460, 74461, 74462, 74463, 74464, 74465, 74466, 74469, 74472, 74473 | Llaves de vaso / Socket wrenches        | 10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-27-30-32 |  |
| 1    | 70375                                                                                                                        | Carraca / Ratchet                       | 250 mm                                                |  |
| 2    | 76490, 70385                                                                                                                 | Alargadera / Extension                  | 125-250 mm                                            |  |
|      | 72416                                                                                                                        | Berbiqui / Speeder handle               | 390 mm                                                |  |
| 1    | 70378                                                                                                                        | Mango corredizo en T / Sliding T handle | 250 mm                                                |  |









**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза







**1/2" - 24 PCS.**

| PCS. | Composición / Composition / Composition | Descripción / Description / Description  |       |                                                                                     |
|------|-----------------------------------------|------------------------------------------|-------|-------------------------------------------------------------------------------------|
| 1    | 70372                                   | Articulacion universal / Universal Joint | 80 mm |  |






| COD.         | MAT.  | AF inch | PCS. | COD. PCS.                                                                                                                           | AF mm | AF inch                                                                                                      | Kg  |
|--------------|-------|---------|------|-------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------|-----|
| <b>35813</b> | Cu-Be | 1/2     | 24   | 74502, 74503, 74504, 74505, 74506, 74507, 74508, 74509, 74510, 74511, 74512, 74513, 74514, 74515, 74516, 74517, 77790, 74519, 76490 | -     | 1/4"-5/16"-3/8"-7/16"-1/2"-19/32" 5/8"-11/16"-9/16"-3/4"-25/32"-13/16"-7/8"-1"-15/16"-1.1/16"-1.3/16"-1.1/4" | 5,5 |

| PCS. | Composición / Composition / Composition                                                                                      | Descripción / Description / Description  |                                                                                                              |                                                                                     |
|------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 18   | 74502, 74503, 74504, 74505, 74506, 74507, 74508, 74509, 74510, 74511, 74512, 74513, 74514, 74515, 74516, 74517, 77790, 74519 | Llaves de vaso / Socket wrenches         | 1/4"-5/16"-3/8"-7/16"-1/2"-19/32" 5/8"-11/16"-9/16"-3/4"-25/32"-13/16"-7/8"-1"-15/16"-1.1/16"-1.3/16"-1.1/4" |    |
| 1    | 70375                                                                                                                        | Carraca / Ratchet                        | 250 mm                                                                                                       |  |
| 2    | 76490, 70385                                                                                                                 | Alargadera / Extension                   | 125-250 mm                                                                                                   |  |
|      | 72416                                                                                                                        | Berbiqui / Speeder handle                | 390 mm                                                                                                       |  |
| 1    | 70378                                                                                                                        | Mango corredizo en T / Sliding T handle  | 250 mm                                                                                                       |  |
|      | 70372                                                                                                                        | Articulacion universal / Universal Joint | 80 mm                                                                                                        |  |

| COD.         | MAT.    | AF inch | PCS. | COD. PCS.                                                                                                                           | AF mm                                                 | AF inch | Kg  |
|--------------|---------|---------|------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------|-----|
| <b>74270</b> | Al-Bron | 1/2     | 24   | 74479, 74480, 74481, 74482, 74483, 74484, 74485, 74486, 74487, 74488, 74489, 74490, 74491, 74492, 74493, 74496, 74499, 74500, 76491 | 10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-27-30-32 | -       | 5,5 |

| PCS. | Composición / Composition / Composition                                                                                      | Descripción / Description / Description  |                                                       |                                                                                       |
|------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------|
| 18   | 74479, 74480, 74481, 74482, 74483, 74484, 74485, 74486, 74487, 74488, 74489, 74490, 74491, 74492, 74493, 74496, 74499, 74500 | Llaves de vaso / Socket wrenches         | 10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-27-30-32 |    |
| 1    | 71272                                                                                                                        | Carraca / Ratchet                        | 250 mm                                                |  |
| 2    | 76491, 71281                                                                                                                 | Alargadera / Extension                   | 125-250 mm                                            |  |
|      | 72417                                                                                                                        | Berbiqui / Speeder handle                | 390 mm                                                |  |
| 1    | 71274                                                                                                                        | Mango corredizo en T / Sliding T handle  | 250 mm                                                |  |
|      | 71269                                                                                                                        | Articulacion Universal / Universal Joint | 80 mm                                                 |  |

| COD.         | MAT.    | AF inch | PCS. | COD. PCS.                                                                                                                           | AF mm | AF inch                                                                                                      | Kg  |
|--------------|---------|---------|------|-------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------|-----|
| <b>35822</b> | Al-Bron | 1/2     | 24   | 74520, 74521, 74522, 74523, 74524, 74525, 74526, 74527, 74528, 74529, 74530, 74531, 74532, 74533, 74534, 74535, 77791, 74537, 76491 | -     | 1/4"-5/16"-3/8"-7/16"-1/2"-19/32" 5/8"-11/16"-9/16"-3/4"-25/32"-13/16"-7/8"-1"-15/16"-1.1/16"-1.3/16"-1.1/4" | 5,5 |

| PCS. | Composición / Composition / Composition                                                                                      | Descripción / Description / Description |                                                                                                              |                                                                                       |
|------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 18   | 74520, 74521, 74522, 74523, 74524, 74525, 74526, 74527, 74528, 74529, 74530, 74531, 74532, 74533, 74534, 74535, 77791, 74537 | Llaves de vaso / Socket wrenches        | 1/4"-5/16"-3/8"-7/16"-1/2"-19/32" 5/8"-11/16"-9/16"-3/4"-25/32"-13/16"-7/8"-1"-15/16"-1.1/16"-1.3/16"-1.1/4" |    |
| 1    | 71272                                                                                                                        | Carraca / Ratchet                       | 250 mm                                                                                                       |  |
| 2    | 76491, 71281                                                                                                                 | Alargadera / Extension                  | 125-250 mm                                                                                                   |  |
|      | 72417                                                                                                                        | Berbiqui / Speeder handle               | 390 mm                                                                                                       |  |
| 1    | 71274                                                                                                                        | Mango corredizo en T / Sliding T handle | 250 mm                                                                                                       |  |

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

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**ANTICHISPA  
NON-SPARKING  
ANTIDÉFLAGRANT  
FUNKENFREI  
ANTISCINTILLA  
ANTI-DEFLAGRANTE  
ИСКРОБЕЗОПАСНЫЙ**



### 1/2" - 24 PCS.

| PCS. | Composición / Composition / Composition | Descripción / Description / Description  |       |  |
|------|-----------------------------------------|------------------------------------------|-------|--|
| 1    | 71269                                   | Articulacion universal / Universal Joint | 80 mm |  |

### 27 PCS.

| COD.         | MAT.  | AF inch | PCS. | COD. PCS.                                                                                                                                         | AF mm                                                       | AF inch | Kg  |
|--------------|-------|---------|------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------|-----|
| <b>74271</b> | Cu-Be | 1/2     | 27   | 74452, 74453, 74454, 74455, 74456, 74457, 74458, 74459, 74460, 74461, 74462, 74463, 74464, 74465, 74466, 74468, 74469, 74470, 74472, 74473, 76490 | 10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-26-27-28-30-32 | -       | 6,0 |

| PCS. | Composición / Composition / Composition                                                                                                    | Descripción / Description / Description  |                                                             |  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------|--|
| 20   | 74452, 74453, 74454, 74455, 74456, 74457, 74458, 74459, 74460, 74461, 74462, 74463, 74464, 74465, 74466, 74468, 74469, 74470, 74472, 74473 | Llaves de vaso / Socket wrenches         | 10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-26-27-28-30-32 |  |
| 1    | 70375                                                                                                                                      | Carraca / Ratchet                        | 250 mm                                                      |  |
| 2    | 76490, 70385                                                                                                                               | Alargadera / Extension                   | 125-250 mm                                                  |  |
|      | 72416                                                                                                                                      | Berbiqui / Speeder handle                | 390 mm                                                      |  |
|      | 70378                                                                                                                                      | Mango corredizo en T / Sliding T handle  | 250 mm                                                      |  |
| 1    | 70372                                                                                                                                      | Articulacion universal / Universal Joint | 80 mm                                                       |  |
|      | 73709                                                                                                                                      | Punta plana con vaso / Flat bit socket   | 13 x 2 mm                                                   |  |

| COD.         | MAT.  | AF inch | PCS. | COD. PCS.                                                                                                                                         | AF mm                                                                                                                      | AF inch | Kg  |
|--------------|-------|---------|------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------|-----|
| <b>35814</b> | Cu-Be | 1/2     | 27   | 74502, 74503, 74504, 74505, 74506, 74507, 74508, 74509, 74510, 74511, 74512, 74513, 74514, 35854, 74515, 74516, 74517, 74518, 77790, 74519, 76490 | 1/4"-5/16"-3/8"-7/16"-1/2"-19/32"-5/8"-11/16"-9/16"-3/4"-25/32"-13/16"-7/8"-29/32"-15/16"-1"-1.1/16"-1.1/8"-1.3/16"-1.1/4" | -       | 6,0 |

| PCS. | Composición / Composition / Composition                                                                                                    | Descripción / Description / Description  |                                                                                                                            |  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--|
| 20   | 74502, 74503, 74504, 74505, 74506, 74507, 74508, 74509, 74510, 74511, 74512, 74513, 74514, 35854, 74515, 74516, 74517, 74518, 77790, 74519 | Llaves de vaso / Socket wrenches         | 1/4"-5/16"-3/8"-7/16"-1/2"-19/32"-5/8"-11/16"-9/16"-3/4"-25/32"-13/16"-7/8"-29/32"-15/16"-1"-1.1/16"-1.1/8"-1.3/16"-1.1/4" |  |
| 1    | 70375                                                                                                                                      | Carraca / Ratchet                        | 250 mm                                                                                                                     |  |
| 2    | 76490, 70385                                                                                                                               | Alargadera / Extension                   | 125-250 mm                                                                                                                 |  |
|      | 72416                                                                                                                                      | Berbiqui / Speeder handle                | 390 mm                                                                                                                     |  |
|      | 70378                                                                                                                                      | Mango corredizo en T / Sliding T handle  | 250 mm                                                                                                                     |  |
| 1    | 70372                                                                                                                                      | Articulacion universal / Universal Joint | 80 mm                                                                                                                      |  |
|      | 73709                                                                                                                                      | Punta plana con vaso / Flat bit socket   | 13 x 2 mm                                                                                                                  |  |

| COD.         | MAT.    | AF inch | PCS. | COD. PCS.                                                                                                                                         | AF mm                                                       | AF inch | Kg  |
|--------------|---------|---------|------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------|-----|
| <b>74272</b> | Al-Bron | 1/2     | 27   | 74479, 74480, 74481, 74482, 74483, 74484, 74485, 74486, 74487, 74488, 74489, 74490, 74491, 74492, 74493, 74495, 74496, 74497, 74499, 74500, 76491 | 10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-26-27-28-30-32 | -       | 6,0 |



**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronz / Сплав Аллюминий Бронза  
**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Копер beryllium / Rame-berillio / Сплав Медь Бериллий

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**EGAMaster**  
ART IN INNOVATION

## 1/2" - 27 PCS.

| PCS. | Composición / Composition / Composition                                                                                                    | Descripción / Description / Description  |                                                             |  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------|--|
| 20   | 74479, 74480, 74481, 74482, 74483, 74484, 74485, 74486, 74487, 74488, 74489, 74490, 74491, 74492, 74493, 74495, 74496, 74497, 74499, 74500 | Llaves de vaso / Socket wrenches         | 10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-26-27-28-30-32 |  |
| 1    | 71272                                                                                                                                      | Carraca / Ratchet                        | 250 mm                                                      |  |
| 2    | 76491, 71281                                                                                                                               | Alargadera / Extension                   | 125-250 mm                                                  |  |
|      | 72417                                                                                                                                      | Berbiqui / Speeder handle                | 390 mm                                                      |  |
|      | 71274                                                                                                                                      | Mango corredizo en T / Sliding T handle  | 250 mm                                                      |  |
| 1    | 71269                                                                                                                                      | Articulacion universal / Universal Joint | 80 mm                                                       |  |
|      | 73710                                                                                                                                      | Punta plana con vaso / Flat bit socket   | 13 x 2 mm                                                   |  |

| COD.         | MAT.    | AF<br>inch | PCS. | COD. PCS.                                                                                                                                         | AF<br>mm | AF<br>inch                                                                                                                        | Kg  |
|--------------|---------|------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------|-----|
| <b>35823</b> | Al-Bron | 1/2        | 27   | 74520, 74521, 74522, 74523, 74524, 74525, 74526, 74527, 74528, 74529, 74530, 74531, 74532, 35855, 74533, 74534, 74535, 74536, 77791, 74537, 76491 | -        | 1/4"-5/16"-3/8"-7/16"-1/2"-19/32"-5/8"-11/16"-9/16"-3/4"-25/32"-13/16"-7/8"-29/32"-15/16"-1"-1.1/16"-1.1/8"-1.1/8"-1.3/16"-1.1/4" | 6,0 |

| PCS. | Composición / Composition / Composition                                                                                                    | Descripción / Description / Description  |                                                                                                                            |  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--|
| 20   | 74520, 74521, 74522, 74523, 74524, 74525, 74526, 74527, 74528, 74529, 74530, 74531, 74532, 35855, 74533, 74534, 74535, 74536, 77791, 74537 | Llaves de vaso / Socket wrenches         | 1/4"-5/16"-3/8"-7/16"-1/2"-19/32"-5/8"-11/16"-9/16"-3/4"-25/32"-13/16"-7/8"-29/32"-15/16"-1"-1.1/16"-1.1/8"-1.3/16"-1.1/4" |  |
| 1    | 71272                                                                                                                                      | Carraca / Ratchet                        | 250 mm                                                                                                                     |  |
| 2    | 76491, 71281                                                                                                                               | Alargadera / Extension                   | 125-250 mm                                                                                                                 |  |
|      | 72417                                                                                                                                      | Berbiqui / Speeder handle                | 390 mm                                                                                                                     |  |
|      | 71274                                                                                                                                      | Mango corredizo en T / Sliding T handle  | 250 mm                                                                                                                     |  |
| 1    | 71269                                                                                                                                      | Articulacion universal / Universal Joint | 80 mm                                                                                                                      |  |
|      | 73710                                                                                                                                      | Punta plana con vaso / Flat bit socket   | 13 x 2 mm                                                                                                                  |  |

## 31 PCS.

| COD.         | MAT.  | AF<br>inch | PCS. | COD. PCS.                                                                                                                                                       | AF<br>mm                                                        | AF<br>inch | Kg  |
|--------------|-------|------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|------------|-----|
| <b>74273</b> | Cu-Be | 1/2        | 31   | 74450, 74451, 74452, 74453, 74454, 74455, 74456, 74457, 74458, 74459, 74460, 74461, 74462, 74463, 74464, 74465, 74466, 74468, 74469, 74470, 74472, 74473, 76490 | 8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-26-27-28-30-32 | -          | 6,5 |

| PCS. | Composición / Composition / Composition                                                                                                                  | Descripción / Description / Description  |                                                                 |  |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------|--|
| 22   | 74450, 74451, 74452, 74453, 74454, 74455, 74456, 74457, 74458, 74459, 74460, 74461, 74462, 74463, 74464, 74465, 74466, 74468, 74469, 74470, 74472, 74473 | Llaves de vaso / Socket wrenches         | 8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-26-27-28-30-32 |  |
| 1    | 72410                                                                                                                                                    | Mango acodado / Offset handle            | 230 mm, 400 g                                                   |  |
|      | 70375                                                                                                                                                    | Carraca / Ratchet                        | 250 mm                                                          |  |
| 2    | 76490, 70385                                                                                                                                             | Alargadera / Extension                   | 125-250 mm                                                      |  |
|      | 72416                                                                                                                                                    | Berbiqui / Speeder handle                | 390 mm                                                          |  |
|      | 70378                                                                                                                                                    | Mango corredizo en T / Sliding T handle  | 250 mm                                                          |  |
| 1    | 70372                                                                                                                                                    | Articulacion universal / Universal Joint | 80 mm                                                           |  |
|      | 73709                                                                                                                                                    | Punta plana con vaso / Flat bit socket   | 13 x 2 mm                                                       |  |



**1/2" - 31 PCS.**

| PCS. | Composición / Composition / Composition | Descripción / Description / Description |        |
|------|-----------------------------------------|-----------------------------------------|--------|
| 1    |                                         | Vaso para bujías / Spark plug socket    | 13/16" |

| COD.         | MAT.  | AF inch | PCS. | COD. PCS.                                                                                                                                                | AF mm | AF inch                                                                                                                                  | Kg  |
|--------------|-------|---------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------|-----|
| <b>35815</b> | Cu-Be | 1/2     | 31   | 74503, 35850, 74504, 74505, 74506, 74507, 74508, 74509, 74510, 35852, 74511, 74512, 74513, 74514, 35854, 74515, 74516, 74517, 74518, 77790, 74519, 76490 | -     | 5/16"-11/32"-3/8"-7/16"-1/4"-1/2"-9/16"-19/32"-5/8"-11/16"-23/32"-3/4"-25/32"-13/16"-7/8"-29/32"-15/16"-1"-1.1/16"-1.1/8"-1.3/16"-1.1/4" | 6,5 |

| PCS. | Composición / Composition / Composition                                                                                                           | Descripción / Description / Description  |                                                                                                                                          |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 22   | 74503, 35850, 74504, 74505, 74506, 74507, 74508, 74509, 74510, 35852, 74511, 74512, 74513, 74514, 35854, 74515, 74516, 74517, 74518, 77790, 74519 | Llaves de vaso / Socket wrenches         | 5/16"-11/32"-3/8"-7/16"-1/4"-1/2"-9/16"-19/32"-5/8"-11/16"-23/32"-3/4"-25/32"-13/16"-7/8"-29/32"-15/16"-1"-1.1/16"-1.1/8"-1.3/16"-1.1/4" |
| 1    | 72410                                                                                                                                             | Mango acodado / Offset handle            | 230 mm, 400 g                                                                                                                            |
|      | 70375                                                                                                                                             | Carraca / Ratchet                        | 250 mm                                                                                                                                   |
| 2    | 76490, 70385                                                                                                                                      | Alargadera / Extension                   | 125-250 mm                                                                                                                               |
|      | 72416                                                                                                                                             | Berbiqui / Speeder handle                | 390 mm                                                                                                                                   |
|      | 70378                                                                                                                                             | Mango corredizo en T / Sliding T handle  | 250 mm                                                                                                                                   |
| 1    | 70372                                                                                                                                             | Articulacion universal / Universal Joint | 80 mm                                                                                                                                    |
|      | 73709                                                                                                                                             | Punta plana con vaso / Flat bit socket   | 13 x 2 mm                                                                                                                                |
|      |                                                                                                                                                   | Vaso para bujías / Spark plug socket     | 13/16"                                                                                                                                   |

| COD.         | MAT.    | AF inch | PCS. | COD. PCS.                                                                                                                                                       | AF mm                                                           | AF inch | Kg  |
|--------------|---------|---------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------|-----|
| <b>74274</b> | Al-Bron | 1/2     | 31   | 74477, 74478, 74479, 74480, 74481, 74482, 74483, 74484, 74485, 74486, 74487, 74488, 74489, 74490, 74491, 74492, 74493, 74495, 74496, 74497, 74499, 74500, 76491 | 8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-26-27-28-30-32 | -       | 6,5 |

| PCS. | Composición / Composition / Composition                                                                                                                  | Descripción / Description / Description  |                                                                                                                                          |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 22   | 74477, 74478, 74479, 74480, 74481, 74482, 74483, 74484, 74485, 74486, 74487, 74488, 74489, 74490, 74491, 74492, 74493, 74495, 74496, 74497, 74499, 74500 | Llaves para vaso / Socket wrenches       | 5/16"-11/32"-3/8"-7/16"-1/4"-1/2"-9/16"-19/32"-5/8"-11/16"-23/32"-3/4"-25/32"-13/16"-7/8"-29/32"-15/16"-1"-1.1/16"-1.1/8"-1.3/16"-1.1/4" |
| 1    | 72411                                                                                                                                                    | Mango acodado / Offset handle            | 230 mm, 400 g                                                                                                                            |
|      | 71272                                                                                                                                                    | Carraca / Ratchet                        | 250 mm                                                                                                                                   |
| 2    | 76491, 71281                                                                                                                                             | Alargadera / Extension                   | 125-250 mm                                                                                                                               |
|      | 72417                                                                                                                                                    | Berbiqui / Speeder handle                | 390 mm                                                                                                                                   |
|      | 71274                                                                                                                                                    | Mango corredizo en T / Sliding T handle  | 250 mm                                                                                                                                   |
| 1    | 71269                                                                                                                                                    | Articulacion universal / Universal Joint | 80 mm                                                                                                                                    |
|      | 73710                                                                                                                                                    | Punta plana con vaso / Flat bit socket   | 13 x 2 mm                                                                                                                                |
|      |                                                                                                                                                          | Vaso para bujías / Spark plug socket     | 13/16"                                                                                                                                   |

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

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**1/2" - 31 PCS.**

| COD.         | MAT.    | AF inch | PCS. | COD. PCS.                                                                                                                                                | AF mm | AF inch                                                                                                                                  | Kg  |
|--------------|---------|---------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------|-----|
| <b>35824</b> | Al-Bron | 1/2     | 31   | 74521, 35851, 74522, 74523, 74524, 74525, 74526, 74527, 74528, 35853, 74529, 74530, 74531, 74532, 35855, 74533, 74534, 74535, 74536, 77791, 74537, 76491 | -     | 5/16"-11/32"-3/8"-7/16"-1/4"-1/2"-9/16"-19/32"-5/8"-11/16"-23/32"-3/4"-25/32"-13/16"-7/8"-29/32"-15/16"-1"-1.1/16"-1.1/8"-1.3/16"-1.1/4" | 6,5 |





| PCS. | Composición / Composition / Composition                                                                                                           | Descripción / Description / Description  |                                                                                                                                          |                                                                                      |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 22   | 74521, 35851, 74522, 74523, 74524, 74525, 74526, 74527, 74528, 35853, 74529, 74530, 74531, 74532, 35855, 74533, 74534, 74535, 74536, 77791, 74537 | Llaves de vaso / Socket wrenches         | 5/16"-11/32"-3/8"-7/16"-1/4"-1/2"-9/16"-19/32"-5/8"-11/16"-23/32"-3/4"-25/32"-13/16"-7/8"-29/32"-15/16"-1"-1.1/16"-1.1/8"-1.3/16"-1.1/4" |     |
| 1    | 72411                                                                                                                                             | Mango acodado / Offset handle            | 230 mm, 400 g                                                                                                                            |                                                                                      |
|      | 71272                                                                                                                                             | Carraca / Ratchet                        | 250 mm                                                                                                                                   |   |
| 2    | 76491, 71281                                                                                                                                      | Alargadera / Extension                   | 125-250 mm                                                                                                                               |   |
|      | 72417                                                                                                                                             | Berbiqui / Speeder handle                | 390 mm                                                                                                                                   |   |
|      | 71274                                                                                                                                             | Mango corredizo en T / Sliding T handle  | 250 mm                                                                                                                                   |   |
| 1    | 71269                                                                                                                                             | Articulacion universal / Universal Joint | 80 mm                                                                                                                                    |   |
|      | 73710                                                                                                                                             | Punta plana con vaso / Flat bit socket   | 13 x 2 mm                                                                                                                                |   |
|      |                                                                                                                                                   | Vaso para bujia / Spark plug socket      | 13/16"                                                                                                                                   |  |

**3/4"**
**14 PCS.**

| COD.         | MAT.  | AF inch | PCS. | COD. PCS.                                                                   | AF mm                            | AF inch | Kg  |
|--------------|-------|---------|------|-----------------------------------------------------------------------------|----------------------------------|---------|-----|
| <b>74275</b> | Cu-Be | 3/4     | 14   | 75740, 74538, 74540, 74541, 74542, 75750, 74543, 75752, 74544, 74545, 74546 | 21-24-27-30-32-34-36-38-41-46-50 | -       | 8,5 |

| PCS. | Composición / Composition / Composition                                     | Descripción / Description / Description |                                  |                                                                                       |
|------|-----------------------------------------------------------------------------|-----------------------------------------|----------------------------------|---------------------------------------------------------------------------------------|
| 11   | 75740, 74538, 74540, 74541, 74542, 75750, 74543, 75752, 74544, 74545, 74546 | Llaves de vaso / Socket wrenches        | 21-24-27-30-32-34-36-38-41-46-50 |    |
|      | 70387                                                                       | Alargadera / Extension                  | 200 mm                           |  |
| 1    | 72416                                                                       | Mango corredizo en T / Sliding T handle | 400 mm                           |  |
|      | 70376                                                                       | Carraca / Ratchet                       | 320 mm                           |  |

| COD.         | MAT.  | AF inch | PCS. | COD. PCS.                                                                   | AF mm | AF inch                                                                       | Kg  |
|--------------|-------|---------|------|-----------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------|-----|
| <b>35816</b> | Cu-Be | 3/4     | 14   | 75756, 75760, 75764, 75768, 75770, 74557, 74558, 74559, 74561, 74564, 74566 | -     | 13/16"-15/16"-1-1/16"-1.3/16"-1.1/4"-1.3/8"-1.7/16"-1.1/2"-1.5/8"-1.13/16"-2" | 8,5 |

| PCS. | Composición / Composition / Composition                                     | Descripción / Description / Description |                                                                               |                                                                                       |
|------|-----------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 11   | 75756, 75760, 75764, 75768, 75770, 74557, 74558, 74559, 74561, 74564, 74566 | Llaves de vaso / Socket wrenches        | 13/16"-15/16"-1-1/16"-1.3/16"-1.1/4"-1.3/8"-1.7/16"-1.1/2"-1.5/8"-1.13/16"-2" |    |
|      | 70387                                                                       | Alargadera / Extension                  | 200 mm                                                                        |  |
| 1    | 72416                                                                       | Mango corredizo en T / Sliding T handle | 400 mm                                                                        |  |
|      | 70376                                                                       | Carraca / Ratchet                       | 320 mm                                                                        |  |



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**ANTICHISPA  
NON-SPARKING  
ANTIDÉFLAGRANT  
FUNKENFREI  
ANTISCINTILLA  
ANTI-DEFLAGRANTE  
ИСКРОБЕЗОПАСНЫЙ**



### 3/4" - 14 PCS.

| COD.         | MAT.    | AF inch | PCS. | COD. PCS.                                                                   | AF mm                            | AF inch | Kg  |
|--------------|---------|---------|------|-----------------------------------------------------------------------------|----------------------------------|---------|-----|
| <b>74276</b> | Al-Bron | 3/4     | 14   | 75741, 74547, 74549, 74550, 74551, 75751, 74552, 75753, 74553, 74554, 74555 | 21-24-27-30-32-34-36-38-41-46-50 | -       | 8,5 |

| PCS. | Composición / Composition / Composition                                     | Descripción / Description / Description |                                  |  |
|------|-----------------------------------------------------------------------------|-----------------------------------------|----------------------------------|--|
| 11   | 75741, 74547, 74549, 74550, 74551, 75751, 74552, 75753, 74553, 74554, 74555 | Llaves de vaso / Socket wrenches        | 21-24-27-30-32-34-36-38-41-46-50 |  |
|      | 71283                                                                       | Alargadera / Extension                  | 200 mm                           |  |
| 1    | 72417                                                                       | Mango corredizo en T / Sliding T handle | 400 mm                           |  |
|      | 70376                                                                       | Carraca / Ratchet                       | 320 mm                           |  |

| COD.         | MAT.    | AF inch | PCS. | COD. PCS.                                                                   | AF mm | AF inch                                                                       | Kg  |
|--------------|---------|---------|------|-----------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------|-----|
| <b>35825</b> | Al-Bron | 3/4     | 14   | 75757, 75761, 75765, 75769, 75771, 74568, 74569, 74570, 74572, 74575, 74577 | -     | 13/16"-15/16"-1-1/16"-1.3/16"-1.1/4"-1.3/8"-1.7/16"-1.1/2"-1.5/8"-1.13/16"-2" | 8,5 |

| PCS. | Composición / Composition / Composition                                     | Descripción / Description / Description |                                                                               |  |
|------|-----------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------|--|
| 11   | 75757, 75761, 75765, 75769, 75771, 74568, 74569, 74570, 74572, 74575, 74577 | Llaves de vaso / Socket wrenches        | 13/16"-15/16"-1-1/16"-1.3/16"-1.1/4"-1.3/8"-1.7/16"-1.1/2"-1.5/8"-1.13/16"-2" |  |
|      | 71283                                                                       | Alargadera / Extension                  | 200 mm                                                                        |  |
| 1    | 72417                                                                       | Mango corredizo en T / Sliding T handle | 400 mm                                                                        |  |
|      | 70376                                                                       | Carraca / Ratchet                       | 320 mm                                                                        |  |

### 20 PCS.

| COD.         | MAT.  | AF inch | PCS. | COD. PCS.                                                                                                      | AF mm                                              | AF inch | Kg  |
|--------------|-------|---------|------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------|-----|
| <b>74277</b> | Cu-Be | 3/4     | 20   | 75740, 75742, 74538, 74539, 74540, 75744, 75746, 74541, 75748, 74542, 75750, 74543, 75752, 74544, 74545, 74546 | 21-22-23-24-26-27-28-29-30-31-32-34-36-38-41-46-50 | -       | 8,5 |

| PCS. | Composición / Composition / Composition                                                                        | Descripción / Description / Description |                                                    |  |
|------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------|--|
| 16   | 75740, 75742, 74538, 74539, 74540, 75744, 75746, 74541, 75748, 74542, 75750, 74543, 75752, 74544, 74545, 74546 | Llaves de vaso / Socket wrenches        | 21-22-23-24-26-27-28-29-30-31-32-34-36-38-41-46-50 |  |
| 2    | 70387                                                                                                          | Alargadera / Extension                  | 200 mm                                             |  |
| 1    | 72416                                                                                                          | Mango corredizo en T / Sliding T handle | 400 mm                                             |  |
|      | 70376                                                                                                          | Carraca / Ratchet                       | 320 mm                                             |  |

| COD.         | MAT.  | AF inch | PCS. | COD. PCS.                                                                                                             | AF mm | AF inch                                                                                                            | Kg  |
|--------------|-------|---------|------|-----------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------|-----|
| <b>35817</b> | Cu-Be | 3/4     | 20   | 75754, 75756, 75758, 75760, 75762, 75764, 75766, 35856, 75768, 35858, 75770, 74557, 74558, 74559, 74561, 74564, 74566 | -     | 3/4"-13/16""-7/8"-15/16"-1"-1.1/16"-1.1/8"-1.5/32"-1.3/16"-1.7/32"-1.1/4"-1.3/8"-1.7/16"-1.1/2"-1.5/8"-1.13/16"-2" | 8,5 |



**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronz / Сплав Аллюминий Бронза  
**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий

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 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
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1123

■ **3/4" - 20 PCS.**

| PCS. | Composición / Composition / Composition                                                                               | Descripción / Description / Description |                                                                                                                   |  |
|------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------|--|
| 16   | 75754, 75756, 75758, 75760, 75762, 75764, 75766, 35856, 75768, 35858, 75770, 74557, 74558, 74559, 74561, 74564, 74566 | Llaves de vaso / Socket wrenches        | 3/4"-13/16"-7/8"-15/16"-1"-1.1/16"-1.1/8"-1.5/32"-1.3/16"-1.7/32"-1.1/4"-1.3/8"-1.7/16"-1.1/2"-1.5/8"-1.13/16"-2" |  |
| 2    | 70387                                                                                                                 | Alargadera / Extension                  | 200 mm                                                                                                            |  |
| 1    | 72416                                                                                                                 | Mango corredizo en T / Sliding T handle | 400 mm                                                                                                            |  |
|      | 70376                                                                                                                 | Carraca / Ratchet                       | 320 mm                                                                                                            |  |

| COD.         | MAT.    | AF inch | PCS. | COD. PCS.                                                                                                      | AF mm                                              | AF inch | Kg  |
|--------------|---------|---------|------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------|-----|
| <b>74278</b> | Al-Bron | 3/4     | 20   | 75741, 75743, 74547, 74548, 74549, 75745, 75747, 74550, 75749, 74551, 75751, 74552, 75753, 74553, 74554, 74555 | 21-22-23-24-26-27-28-29-30-31-32-34-36-38-41-46-50 | -       | 8,5 |

| PCS. | Composición / Composition / Composition                                                                        | Descripción / Description / Description |                                                    |  |
|------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------|--|
| 16   | 75741, 75743, 74547, 74548, 74549, 75745, 75747, 74550, 75749, 74551, 75751, 74552, 75753, 74553, 74554, 74555 | Llaves de vaso / Socket wrenches        | 21-22-23-24-26-27-28-29-30-31-32-34-36-38-41-46-50 |  |
| 2    | 71283                                                                                                          | Alargadera / Extension                  | 200 mm                                             |  |
| 1    | 72417                                                                                                          | Mango corredizo en T / Sliding T handle | 400 mm                                             |  |
|      | 70376                                                                                                          | Carraca / Ratchet                       | 320 mm                                             |  |

| COD.         | MAT.    | AF inch | PCS. | COD. PCS.                                                                                                             | AF mm                                                                                                             | AF inch | Kg  |
|--------------|---------|---------|------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------|-----|
| <b>35826</b> | Al-Bron | 3/4     | 20   | 75755, 75757, 75759, 75761, 75763, 75765, 75767, 35857, 75769, 35859, 75771, 74568, 74569, 74570, 74572, 74575, 74577 | 3/4"-13/16"-7/8"-15/16"-1"-1.1/16"-1.1/8"-1.5/32"-1.3/16"-1.7/32"-1.1/4"-1.3/8"-1.7/16"-1.1/2"-1.5/8"-1.13/16"-2" | -       | 8,5 |

| PCS. | Composición / Composition / Composition                                                                               | Descripción / Description / Description |                                                                                                                   |  |
|------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------|--|
| 16   | 75755, 75757, 75759, 75761, 75763, 75765, 75767, 35857, 75769, 35859, 75771, 74568, 74569, 74570, 74572, 74575, 74577 | Llaves de vaso / Socket wrenches        | 3/4"-13/16"-7/8"-15/16"-1"-1.1/16"-1.1/8"-1.5/32"-1.3/16"-1.7/32"-1.1/4"-1.3/8"-1.7/16"-1.1/2"-1.5/8"-1.13/16"-2" |  |
| 2    | 71283                                                                                                                 | Alargadera / Extension                  | 200 mm                                                                                                            |  |
| 1    | 72417                                                                                                                 | Mango corredizo en T / Sliding T handle | 400 mm                                                                                                            |  |
|      | 70376                                                                                                                 | Carraca / Ratchet                       | 320 mm                                                                                                            |  |

■ **1"**

■ **18 PCS.**

| COD.         | MAT.  | AF inch | PCS. | COD. PCS.                                                                   | AF mm                                        | AF inch | Kg |
|--------------|-------|---------|------|-----------------------------------------------------------------------------|----------------------------------------------|---------|----|
| <b>74279</b> | Cu-Be | 1       | 18   | 74541, 75748, 74542, 75750, 74543, 75752, 74544, 74545, 74546, 77822, 77824 | 30-31-32-34-36-38-41-46-50-55-60-65-70-75-80 | -       | 18 |

| PCS. | Composición / Composition / Composition                                     | Descripción / Description / Description |                                              |  |
|------|-----------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------|--|
| 15   | 74541, 75748, 74542, 75750, 74543, 75752, 74544, 74545, 74546, 77822, 77824 | Llaves de vaso / Socket wrenches        | 30-31-32-34-36-38-41-46-50-55-60-65-70-75-80 |  |
| 1    | 72396                                                                       | Articulación flexible / Flexible joint  | 120 mm                                       |  |
|      | 70387                                                                       | Alargadera / Extension                  | 200 mm                                       |  |
|      | 72416                                                                       | Mango corredizo en T / Sliding T handle | 400 mm                                       |  |






**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза






## ■ 1"- 18 PCS.




| COD.         | MAT.  | AF<br>inch | PCS. | COD. PCS.                                                     | AF<br>mm | AF<br>inch                                                                                                  | Kg |
|--------------|-------|------------|------|---------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------|----|
| <b>35818</b> | Cu-Be | 1          | 18   | 75766, 75768, 75770, 74557, 74558, 74559, 74561, 74564, 74566 | -        | 1.1/8"-1.3/16"-1.1/4"-1.3/8"-1.7/16"-1.1/2"-1.5/8"-1.13/16"-2"-2.1/4"-2.3/8"-2.9/16"-2.3/4"-2.15/16"-3.1/8" | 18 |

| PCS. | Composición / Composition / Composition                       | Descripción / Description / Description |                                                                                                             |                                                                                     |
|------|---------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 15   | 75766, 75768, 75770, 74557, 74558, 74559, 74561, 74564, 74566 | Llaves de vaso / Socket wrenches        | 1.1/8"-1.3/16"-1.1/4"-1.3/8"-1.7/16"-1.1/2"-1.5/8"-1.13/16"-2"-2.1/4"-2.3/8"-2.9/16"-2.3/4"-2.15/16"-3.1/8" |    |
| 1    | 72396                                                         | Articulación flexible / Flexible joint  | 120 mm                                                                                                      |                                                                                     |
|      | 70387                                                         | Alargadera / Extension                  | 200 mm                                                                                                      |  |
|      | 72416                                                         | Mango corredizo en T / Sliding T handle | 400 mm                                                                                                      |  |

| COD.         | MAT.    | AF<br>inch | PCS. | COD. PCS.                                                                   | AF<br>mm                                     | AF<br>inch | Kg |
|--------------|---------|------------|------|-----------------------------------------------------------------------------|----------------------------------------------|------------|----|
| <b>74280</b> | Al-Bron | 1          | 18   | 74550, 75749, 74551, 75751, 74552, 75753, 74553, 74554, 74555, 77823, 77825 | 30-31-32-34-36-38-41-46-50-55-60-65-70-75-80 | -          | 18 |

| PCS. | Composición / Composition / Composition                                     | Descripción / Description / Description |                                              |                                                                                       |
|------|-----------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------|
| 15   | 74550, 75749, 74551, 75751, 74552, 75753, 74553, 74554, 74555, 77823, 77825 | Llaves de vaso / Socket wrenches        | 30-31-32-34-36-38-41-46-50-55-60-65-70-75-80 |     |
| 1    | 72397                                                                       | Articulación flexible / Flexible joint  | 120 mm                                       |                                                                                       |
|      | 71283                                                                       | Alargadera / Extension                  | 200 mm                                       |  |
|      | 72417                                                                       | Mango corredizo en T / Sliding T handle | 400 mm                                       |  |

| COD.         | MAT.    | AF<br>inch | PCS. | COD. PCS.                                                     | AF<br>mm | AF<br>inch                                                                                                  | Kg |
|--------------|---------|------------|------|---------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------|----|
| <b>35827</b> | Al-Bron | 1          | 18   | 75767, 75769, 75771, 74568, 74569, 74570, 74572, 74575, 74577 | -        | 1.1/8"-1.3/16"-1.1/4"-1.3/8"-1.7/16"-1.1/2"-1.5/8"-1.13/16"-2"-2.1/4"-2.3/8"-2.9/16"-2.3/4"-2.15/16"-3.1/8" | 18 |

| PCS. | Composición / Composition / Composition                       | Descripción / Description / Description |                                                                                                             |                                                                                       |
|------|---------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 15   | 75767, 75769, 75771, 74568, 74569, 74570, 74572, 74575, 74577 | Llaves de vaso / Socket wrenches        | 1.1/8"-1.3/16"-1.1/4"-1.3/8"-1.7/16"-1.1/2"-1.5/8"-1.13/16"-2"-2.1/4"-2.3/8"-2.9/16"-2.3/4"-2.15/16"-3.1/8" |    |
| 1    | 72397                                                         | Articulación flexible / Flexible joint  | 120 mm                                                                                                      |                                                                                       |
|      | 71283                                                         | Alargadera / Extension                  | 200 mm                                                                                                      |  |
|      | 72417                                                         | Mango corredizo en T / Sliding T handle | 400 mm                                                                                                      |  |

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

**LLAVES DE VASO DE IMPACTO / IMPACT SOCKET WRENCHES / DOUILLES À CHOC / IMPACT STECKSCHLÜSSEL EINSÄTZE / BUSSOLA AD IMPULSI / CHAVES DE CAIXA DE IMPACTO / УДАРНАЯ ГОЛОВКА**

■ 1/2"

■ STANDARD

■ MM

■ 6 PT.

■ 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g   | COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g   |
|-------|-------|-------|---------|-------|--------|----|-----|-------|-------|-------|---------|-------|--------|----|-----|
| 77852 |       | 77853 |         | 8     |        |    | 105 | 77930 |       | 77931 |         | 8     |        |    | 105 |
| 77854 |       | 77855 |         | 9     | 42     |    |     | 77932 |       | 77933 |         | 9     | 42     |    |     |
| 77856 |       | 77857 |         | 10    |        |    | 115 | 76496 |       | 76497 |         | 10    |        |    | 115 |
| 77858 |       | 77859 |         | 11    |        |    |     | 76498 |       | 76499 |         | 11    |        |    |     |
| 77860 |       | 77861 |         | 12    |        |    | 135 | 76500 |       | 76501 |         | 12    |        |    | 135 |
| 77862 |       | 77863 |         | 13    |        |    |     | 76502 |       | 76503 |         | 13    |        |    |     |
| 77864 |       | 77865 |         | 14    |        |    | 145 | 76504 |       | 76505 |         | 14    |        |    | 145 |
| 77866 |       | 77867 |         | 15    |        |    |     | 76506 |       | 76507 |         | 15    |        |    |     |
| 77868 |       | 77869 |         | 16    |        |    |     | 76508 |       | 76509 |         | 16    |        |    |     |
| 77870 |       | 77871 |         | 17    | 44     |    | 160 | 74775 |       | 74776 |         | 17    | 44     |    | 160 |
| 77872 |       | 77873 |         | 18    |        |    |     | 77934 |       | 77935 |         | 18    |        |    |     |
| 77874 |       | 77875 |         | 19    |        |    |     | 74777 |       | 74778 |         | 19    |        |    |     |
| 77876 |       | 77877 |         | 20    |        |    | 180 | 77936 |       | 77937 |         | 20    |        |    | 180 |
| 74717 | Cu-Be | 74718 | Al-Bron | 21    |        | 6  |     | 77938 | Cu-Be | 77939 | Al-Bron | 21    |        | 12 |     |
| 77878 |       | 77879 |         | 22    |        |    |     | 74779 |       | 74780 |         | 22    |        |    |     |
| 77880 |       | 77881 |         | 23    |        |    |     | 76510 |       | 76511 |         | 23    |        |    |     |
| 74719 |       | 74720 |         | 24    |        |    | 200 | 77940 |       | 77941 |         | 24    |        |    | 200 |
| 77882 |       | 77883 |         | 25    | 46     |    |     | 77942 |       | 77943 |         | 25    | 46     |    |     |
| 77884 |       | 77885 |         | 26    |        |    | 210 | 77944 |       | 77945 |         | 26    |        |    | 210 |
| 77886 |       | 77887 |         | 27    |        |    |     | 74781 |       | 74782 |         | 27    |        |    |     |
| 77888 |       | 77889 |         | 28    | 48     |    | 220 | 77946 |       | 77947 |         | 28    | 48     |    | 220 |
| 77890 |       | 77891 |         | 29    |        |    | 230 | 77948 |       | 77949 |         | 29    |        |    | 230 |
| 74721 |       | 74722 |         | 30    |        |    | 240 | 77950 |       | 77951 |         | 30    |        |    | 240 |
| 77892 |       | 77893 |         | 32    |        |    | 250 | 74783 |       | 74784 |         | 32    |        |    | 250 |
| 36086 |       | 36087 |         | 36    | 50     |    | 260 | 36695 |       | 36696 |         | 36    | 50     |    | 260 |
| 74723 |       | 74724 |         | 41    |        |    | 600 | 77952 |       | 77953 |         | 41    |        |    | 600 |
| 74725 |       | 74726 |         | 46    |        |    | 800 | 77954 |       | 77955 |         | 46    |        |    | 800 |
| 74716 |       | 74727 |         | 50    | 60     |    |     | 36458 |       | 36459 |         | 50    | 60     |    | 800 |



LLaves de Impacto - Neumáticas e Hidráulicas, Cuadrado 1/2", 3/4", 1" y 1.1/2" para zonas ATEX - Ver capítulo de Seguridad Intrínseca.  
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**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

37

**ANTICHISPA**  
**NON-SPARKING**  
**ANTIDÉFLAGRANT**  
**FUNKENFREI**  
**ANTISCINTILLA**  
**ANTI-DEFLAGRANTE**  
**ИСКРОБЕЗОПАСНЫЙ**



■ 1/2"

■ STANDARD

■ INCH

■ 6 PT.

■ 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt  | g   |
|-------|-------|-------|---------|---------|--------|-----|-----|
| 77894 |       | 77895 |         | 5/16    |        |     | 105 |
| 77896 |       | 77897 |         | 3/8     | 42     |     | 110 |
| 77898 |       | 77899 |         | 7/16    |        |     | 115 |
| 77900 |       | 77901 |         | 1/2     |        |     |     |
| 77902 |       | 77903 |         | 9/16    |        | 145 |     |
| 77904 |       | 77905 |         | 19/32   |        |     |     |
| 77906 |       | 77907 |         | 5/8     |        |     |     |
| 77908 |       | 77909 |         | 11/16   |        | 160 |     |
| 77910 | Cu-Be | 77911 | Al-Bron | 3/4     |        | 6   |     |
| 77912 |       | 77913 |         | 25/32   |        |     | 180 |
| 77914 |       | 77915 |         | 13/16   | 44     |     |     |
| 77916 |       | 77917 |         | 7/8     |        |     |     |
| 77918 |       | 77919 |         | 15/16   |        | 200 |     |
| 77920 |       | 77921 |         | 1       |        |     |     |
| 77922 |       | 77923 |         | 1.1/16  |        | 220 |     |
| 77924 |       | 77925 |         | 1.1/8   |        |     |     |
| 77926 |       | 77927 |         | 1.3/16  |        | 240 |     |
| 77928 |       | 77929 |         | 1.1/4   |        | 250 |     |

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt  | g   |
|-------|-------|-------|---------|---------|--------|-----|-----|
| 77956 |       | 77957 |         | 5/16    |        |     | 105 |
| 77958 |       | 77959 |         | 3/8     | 42     |     | 110 |
| 77960 |       | 77961 |         | 7/16    |        |     | 115 |
| 77962 |       | 77963 |         | 1/2     |        |     |     |
| 77964 |       | 77965 |         | 9/16    |        | 145 |     |
| 77966 |       | 77967 |         | 19/32   |        |     |     |
| 77968 |       | 77969 |         | 5/8     |        |     |     |
| 77970 |       | 77971 |         | 11/16   |        | 160 |     |
| 77972 | Cu-Be | 77973 | Al-Bron | 3/4     |        | 12  |     |
| 77974 |       | 77975 |         | 25/32   |        |     | 180 |
| 77976 |       | 77977 |         | 13/16   | 44     |     |     |
| 77978 |       | 77979 |         | 7/8     |        |     |     |
| 77980 |       | 77981 |         | 15/16   |        | 200 |     |
| 77982 |       | 77983 |         | 1       |        |     |     |
| 77984 |       | 77985 |         | 1.1/16  |        | 220 |     |
| 77986 |       | 77987 |         | 1.1/8   |        |     |     |
| 77988 |       | 77989 |         | 1.3/16  |        | 240 |     |
| 77990 |       | 77991 |         | 1.1/4   |        | 250 |     |



LLaves de Impacto - Neumáticas e Hidráulicas, Cuadrado 1/2", 3/4", 1" y 1.1/2" para zonas ATEX - Ver capítulo de Seguridad Intrínseca.  
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**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

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**EGAMaster**  
 ART IN INNOVATION

1127

■ 1/2"

■ SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

■ MM

■ 6 PT.

■ 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g    | COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g    |
|-------|-------|-------|---------|-------|--------|----|------|-------|-------|-------|---------|-------|--------|----|------|
| 76202 |       | 76203 |         | 8     |        |    |      | 76990 |       | 76991 |         | 8     |        |    |      |
| 76204 |       | 76205 |         | 9     |        |    |      | 76992 |       | 76993 |         | 9     |        |    |      |
| 76206 |       | 76207 |         | 10    |        |    | 170  | 76994 |       | 76995 |         | 10    |        |    | 170  |
| 76208 |       | 76209 |         | 11    |        |    |      | 76996 |       | 76997 |         | 11    |        |    |      |
| 76210 |       | 76211 |         | 12    |        |    |      | 76998 |       | 76999 |         | 12    |        |    |      |
| 76212 |       | 76213 |         | 13    |        |    | 180  | 78389 |       | 78390 |         | 13    |        |    | 180  |
| 76214 |       | 76215 |         | 14    |        |    | 190  | 78391 |       | 78392 |         | 14    |        |    | 190  |
| 76216 |       | 76217 |         | 15    |        |    | 200  | 78393 |       | 78394 |         | 15    |        |    | 200  |
| 76218 |       | 76219 |         | 16    |        |    | 220  | 78395 |       | 78396 |         | 16    |        |    | 220  |
| 76220 |       | 76221 |         | 17    |        |    | 240  | 78397 |       | 78398 |         | 17    |        |    | 240  |
| 76222 |       | 76223 |         | 18    |        |    | 260  | 78399 |       | 78400 |         | 18    |        |    | 260  |
| 76224 |       | 76225 |         | 19    |        |    | 270  | 78401 |       | 78402 |         | 19    |        |    | 270  |
| 76226 |       | 76227 |         | 20    |        |    | 280  | 78403 |       | 78404 |         | 20    |        |    | 280  |
| 76228 | Cu-Be | 76229 | Al-Bron | 21    | 82     | 6  | 290  | 78405 | Cu-Be | 78406 | Al-Bron | 21    | 82     | 12 | 290  |
| 76230 |       | 76231 |         | 22    |        |    | 310  | 78407 |       | 78408 |         | 22    |        |    | 310  |
| 76232 |       | 76233 |         | 23    |        |    | 320  | 78409 |       | 78410 |         | 23    |        |    | 320  |
| 76766 |       | 76767 |         | 24    |        |    | 340  | 78411 |       | 78412 |         | 24    |        |    | 340  |
| 76234 |       | 76235 |         | 25    |        |    | 380  | 78413 |       | 78414 |         | 25    |        |    | 380  |
| 76236 |       | 76237 |         | 26    |        |    | 400  | 78415 |       | 78416 |         | 26    |        |    | 400  |
| 76768 |       | 76769 |         | 27    |        |    | 420  | 78417 |       | 78418 |         | 27    |        |    | 420  |
| 76280 |       | 76281 |         | 28    |        |    | 440  | 78419 |       | 78420 |         | 28    |        |    | 440  |
| 76282 |       | 76283 |         | 29    |        |    | 460  | 78421 |       | 78422 |         | 29    |        |    | 460  |
| 76770 |       | 76771 |         | 30    |        |    | 500  | 78423 |       | 78424 |         | 30    |        |    | 500  |
| 76772 |       | 76773 |         | 32    |        |    |      | 78425 |       | 78426 |         | 32    |        |    |      |
| 36697 |       | 36698 |         | 36    |        |    | 750  | 36699 |       | 36700 |         | 36    |        |    | 750  |
| 76284 |       | 76285 |         | 41    |        |    | 800  | 78427 |       | 78428 |         | 41    |        |    | 800  |
| 76286 |       | 76287 |         | 46    |        |    | 1000 | 78429 |       | 78430 |         | 46    |        |    | 1000 |
| 36456 |       | 36457 |         | 50    |        |    | 1275 | 36460 |       | 36461 |         | 50    |        |    | 1275 |



LLAVES DE IMPACTO - Neumáticas e Hidráulicas, Cuadrado 1/2", 3/4", 1" y 1.1/2" para zonas ATEX - Ver capítulo de Seguridad Intrínseca.  
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**ANTICHISPA**  
**NON-SPARKING**  
**ANTIDÉFLAGRANT**  
**FUNKENFREI**  
**ANTISCINTILLA**  
**ANTI-DEFLAGRANTE**  
**ИСКРОБЕЗОПАСНЫЙ**



■ 1/2"

■ SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

■ INCH

■ 6 PT.

■ 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt  | g   | COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt  | g   |
|-------|-------|-------|---------|---------|--------|-----|-----|-------|-------|-------|---------|---------|--------|-----|-----|
| 76352 |       | 76353 |         | 5/16    |        |     |     | 78431 |       | 78432 |         | 5/16    |        |     |     |
| 76354 |       | 76355 |         | 3/8     |        | 170 |     | 78433 |       | 78434 |         | 3/8     |        | 170 |     |
| 76356 |       | 76357 |         | 7/16    |        |     |     | 78435 |       | 78436 |         | 7/16    |        |     |     |
| 76358 |       | 76359 |         | 1/2     |        | 180 |     | 78437 |       | 78438 |         | 1/2     |        | 180 |     |
| 76360 |       | 76361 |         | 9/16    |        | 190 |     | 78439 |       | 78440 |         | 9/16    |        | 190 |     |
| 76362 |       | 76363 |         | 19/32   |        | 200 |     | 78441 |       | 78442 |         | 19/32   |        | 200 |     |
| 76364 |       | 76365 |         | 5/8     |        | 220 |     | 78443 |       | 78444 |         | 5/8     |        | 220 |     |
| 76366 |       | 76367 |         | 11/16   |        | 250 |     | 78445 |       | 78446 |         | 11/16   |        | 250 |     |
| 76368 | Cu-Be | 76369 | Al-Bron | 3/4     | 82     | 6   | 270 | 78447 | Cu-Be | 78448 | Al-Bron | 3/4     | 82     | 12  | 270 |
| 76370 |       | 76371 |         | 25/32   |        | 280 |     | 78449 |       | 78450 |         | 25/32   |        | 280 |     |
| 76372 |       | 76373 |         | 13/16   |        | 290 |     | 78451 |       | 78452 |         | 13/16   |        | 290 |     |
| 76374 |       | 76375 |         | 7/8     |        | 310 |     | 78453 |       | 78454 |         | 7/8     |        | 310 |     |
| 76376 |       | 76377 |         | 15/16   |        | 340 |     | 78455 |       | 78456 |         | 15/16   |        | 340 |     |
| 76378 |       | 76379 |         | 1       |        | 380 |     | 78457 |       | 78458 |         | 1       |        | 380 |     |
| 76380 |       | 76381 |         | 1.1/16  |        | 420 |     | 78459 |       | 78460 |         | 1.1/16  |        | 420 |     |
| 76382 |       | 76383 |         | 1.1/8   |        | 460 |     | 78461 |       | 78462 |         | 1.1/8   |        | 460 |     |
| 76384 |       | 76385 |         | 1.3/16  |        | 490 |     | 78463 |       | 78464 |         | 1.3/16  |        | 490 |     |
| 76386 |       | 76387 |         | 1.1/4   |        | 500 |     | 78465 |       | 78466 |         | 1.1/4   |        | 500 |     |



LLAVES DE IMPACTO - Neumáticas e Hidráulicas, Cuadrado 1/2", 3/4", 1" y 1.1/2" para zonas ATEX - Ver capítulo de Seguridad Intrínseca.  
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**Cu-Be** Cobre berilio / Beryllium copper / Cuiivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

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**EGAMaster**  
 ART IN INNOVATION

1129

■ 3/4"

■ STANDARD

■ MM

■ 6 PT.

■ 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g    |
|-------|-------|-------|---------|-------|--------|----|------|
| 79839 |       | 79840 |         | 17    |        |    |      |
| 77992 |       | 77993 |         | 19    |        |    | 350  |
| 79210 |       | 79213 |         | 20    |        |    | 250  |
| 79841 |       | 79842 |         | 21    | 55     |    |      |
| 77994 |       | 77995 |         | 22    |        |    | 350  |
| 75884 |       | 75885 |         | 24    |        |    |      |
| 79879 |       | 79880 |         | 26    |        |    | 370  |
| 75886 |       | 75887 |         | 27    |        |    | 380  |
| 79881 |       | 79882 |         | 28    | 50     |    | 400  |
| 75888 |       | 75889 |         | 30    |        |    | 500  |
| 75890 | Cu-Be | 75891 | Al-Bron | 32    |        | 6  |      |
| 79843 |       | 79844 |         | 33    | 60     |    |      |
| 77996 |       | 77997 |         | 34    |        |    | 550  |
| 75892 |       | 75893 |         | 36    |        |    |      |
| 77998 |       | 77999 |         | 38    |        |    | 700  |
| 75894 |       | 75895 |         | 41    | 65     |    | 800  |
| 75896 |       | 75897 |         | 46    |        |    | 900  |
| 75898 |       | 75899 |         | 50    |        |    | 1100 |
| 78000 |       | 78001 |         | 55    | 70     |    |      |
| 78002 |       | 78003 |         | 60    |        |    | 1250 |

| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g    |
|-------|-------|-------|---------|-------|--------|----|------|
| 36701 |       | 36702 |         | 17    | 50     |    | 300  |
| 78040 |       | 78041 |         | 19    |        |    |      |
| 36284 |       | 36295 |         | 20    | 55     |    | 350  |
| 78042 |       | 78043 |         | 22    |        |    |      |
| 36729 |       | 36730 |         | 23    | 50     |    | 380  |
| 72314 |       | 72315 |         | 24    |        |    | 350  |
| 72316 |       | 72317 |         | 27    | 55     |    | 380  |
| 72318 |       | 72319 |         | 30    |        |    | 500  |
| 72320 | Cu-Be | 72321 | Al-Bron | 32    |        | 12 |      |
| 76512 |       | 76513 |         | 34    | 60     |    | 550  |
| 72322 |       | 72323 |         | 36    |        |    |      |
| 76514 |       | 76515 |         | 38    |        |    | 700  |
| 72324 |       | 72325 |         | 41    | 65     |    | 800  |
| 72326 |       | 72327 |         | 46    |        |    | 900  |
| 72328 |       | 72329 |         | 50    |        |    | 1100 |
| 76516 |       | 76517 |         | 55    | 70     |    |      |
| 78044 |       | 75968 |         | 60    |        |    | 1250 |



Llaves de Impacto - Neumáticas e Hidráulicas, Cuadrado 1/2", 3/4", 1" y 1.1/2" para zonas ATEX - Ver capítulo de Seguridad Intrínseca.  
Impact Wrenches - Pneumatic and Hydraulic, 1/2", 3/4", 1" and 1.1/2" Sq. Drive for ATEX zones - See Intrinsic Safety chapters.  
Douilles à choc - Pneumatiques et Hydrauliques, Carrée de 1/2", 3/4", 1" et 1.1/2" pour zones ATEX - Voir chapitre Sécurité Intrinsèque.

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

# 37

**ANTICHISPA  
NON-SPARKING  
ANTIDÉFLAGRANT  
FUNKENFREI  
ANTISCINTILLA  
ANTI-DEFLAGRANTE  
ИСКРОБЕЗОПАСНЫЙ**



- 3/4"
- STANDARD
- INCH
- 6 PT.

- 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g    |
|-------|-------|-------|---------|---------|--------|----|------|
| 79883 |       | 79884 |         | 9/16    | 50     |    | 320  |
| 79885 |       | 79886 |         | 5/8     |        |    | 340  |
| 78004 |       | 78005 |         | 3/4     |        |    | 430  |
| 78006 |       | 78007 |         | 13/16   |        |    |      |
| 78008 |       | 78009 |         | 7/8     |        |    |      |
| 78010 |       | 78011 |         | 15/16   | 55     |    | 450  |
| 78012 |       | 78013 |         | 1       |        |    |      |
| 78014 |       | 78015 |         | 1.1/16  |        |    |      |
| 78016 |       | 78017 |         | 1.1/8   |        |    | 460  |
| 78018 |       | 78019 |         | 1.3/16  |        |    |      |
| 78020 | Cu-Be | 78021 | Al-Bron | 1.1/4   | 60     | 6  | 600  |
| 78022 |       | 78023 |         | 1.5/16  |        |    | 650  |
| 78024 |       | 78025 |         | 1.3/8   |        |    |      |
| 78026 |       | 78027 |         | 1.7/16  | 65     |    | 700  |
| 78028 |       | 78029 |         | 1.1/2   |        |    |      |
| 78030 |       | 78031 |         | 1.5/8   |        |    | 850  |
| 79887 |       | 79888 |         | 1.11/16 | 60     |    | 670  |
| 78032 |       | 78033 |         | 1.3/4   |        |    | 850  |
| 78036 |       | 78037 |         | 1.13/16 | 65     |    | 1200 |
| 78034 |       | 78035 |         | 1.7/8   |        |    | 850  |
| 78038 |       | 78039 |         | 2       | 70     |    | 1250 |

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g    |
|-------|-------|-------|---------|---------|--------|----|------|
| 78045 |       | 78046 |         | 3/4     |        |    | 430  |
| 78047 |       | 78048 |         | 13/16   |        |    |      |
| 78049 |       | 78050 |         | 7/8     |        |    |      |
| 78051 |       | 78052 |         | 15/16   | 55     |    | 450  |
| 78053 |       | 78054 |         | 1       |        |    |      |
| 78055 |       | 78056 |         | 1.1/16  |        |    |      |
| 78057 |       | 78058 |         | 1.1/8   |        |    | 460  |
| 78059 |       | 78060 |         | 1.3/16  |        |    |      |
| 78061 | Cu-Be | 78062 | Al-Bron | 1.1/4   | 60     | 12 | 600  |
| 78063 |       | 78064 |         | 1.5/16  |        |    | 650  |
| 78065 |       | 78066 |         | 1.3/8   |        |    |      |
| 78067 |       | 78068 |         | 1.7/16  |        |    | 700  |
| 78069 |       | 78070 |         | 1.1/2   |        |    |      |
| 78071 |       | 78072 |         | 1.5/8   | 65     |    | 850  |
| 78073 |       | 78074 |         | 1.3/4   |        |    |      |
| 78077 |       | 78078 |         | 1.13/16 |        |    | 1200 |
| 78075 |       | 78076 |         | 1.7/8   |        |    | 850  |
| 78079 |       | 78080 |         | 2       | 70     |    | 1250 |



Llaves de Impacto - Neumáticas e Hidráulicas, Cuadrado 1/2", 3/4", 1" y 1.1/2" para zonas ATEX - Ver capítulo de Seguridad Intrínseca.  
Impact Wrenches - Pneumatic and Hydraulic, 1/2", 3/4", 1" and 1.1/2" Sq. Drive for ATEX zones - See Intrinsic Safety chapter.  
Douilles à choc - Pneumatiques et Hydrauliques, Carrée de 1/2", 3/4", 1" et 1.1/2" pour zones ATEX - Voir chapitre Sécurité Intrinsèque.

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

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■ 3/4"

■ SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

■ MM

■ 6 PT.

■ 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g    | COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g    |
|-------|-------|-------|---------|-------|--------|----|------|-------|-------|-------|---------|-------|--------|----|------|
| 36462 |       | 36463 |         | 17    |        |    | 650  | 36464 |       | 36465 |         | 17    |        |    | 600  |
| 78467 |       | 78468 |         | 19    |        |    | 800  | 78531 |       | 78532 |         | 19    |        |    |      |
| 78469 |       | 78470 |         | 22    | 90     |    |      | 78533 |       | 78534 |         | 22    | 90     |    | 800  |
| 36731 |       | 36732 |         | 23    |        |    | 690  | 36733 |       | 36734 |         | 23    |        |    |      |
| 78471 |       | 78472 |         | 24    |        |    | 800  | 78535 |       | 78536 |         | 24    |        |    |      |
| 78473 |       | 78474 |         | 27    |        |    |      | 78537 |       | 78538 |         | 27    |        |    |      |
| 78475 |       | 78476 |         | 30    |        |    |      | 78539 |       | 78540 |         | 30    |        |    |      |
| 78477 | Cu-Be | 78478 | Al-Bron | 32    | 95     | 6  | 900  | 78541 | Cu-Be | 78542 | Al-Bron | 32    | 95     | 12 | 900  |
| 78479 |       | 78480 |         | 34    |        |    |      | 78543 |       | 78544 |         | 34    |        |    |      |
| 78481 |       | 78482 |         | 36    |        |    |      | 78545 |       | 78546 |         | 36    |        |    |      |
| 78483 |       | 78484 |         | 38    |        |    | 1100 | 78547 |       | 78548 |         | 38    |        |    | 1100 |
| 78485 |       | 78486 |         | 41    |        |    | 1150 | 78549 |       | 78550 |         | 41    |        |    | 1150 |
| 78487 |       | 78488 |         | 46    | 100    |    | 1200 | 78551 |       | 78552 |         | 46    | 100    |    | 1200 |
| 78489 |       | 78490 |         | 50    |        |    | 1700 | 78553 |       | 78554 |         | 50    |        |    | 1700 |
| 78491 |       | 78492 |         | 55    |        |    | 1750 | 78555 |       | 78556 |         | 55    |        |    |      |
| 78493 |       | 78494 |         | 60    |        |    |      | 78557 |       | 78558 |         | 60    |        |    | 1750 |



Llaves de Impacto - Neumáticas e Hidráulicas, Cuadrado 1/2", 3/4", 1" y 1.1/2" para zonas ATEX - Ver capítulo de Seguridad Intrínseca.  
 Impact Wrenches - Pneumatic and Hydraulic, 1/2", 3/4", 1" and 1.1/2" Sq. Drive for ATEX zones - See Intrinsic Safety chapters.  
 Douilles à choc - Pneumatiques et Hydrauliques, Carrée de 1/2", 3/4", 1" et 1.1/2" pour zones ATEX - Voir chapitre Sécurité Intrinsèque.

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза



# 37

**ANTICHISPA  
NON-SPARKING  
ANTIDÉFLAGRANT  
FUNKENFREI  
ANTISCINTILLA  
ANTI-DEFLAGRANTE  
ИСКРОБЕЗОПАСНЫЙ**



■ 3/4"

■ SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

■ INCH

■ 6 PT.

■ 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g    |
|-------|-------|-------|---------|---------|--------|----|------|
| 78495 |       | 78496 |         | 3/4     |        |    |      |
| 78497 |       | 78498 |         | 13/16   |        |    |      |
| 78499 |       | 78500 |         | 7/8     | 90     |    | 800  |
| 78501 |       | 78502 |         | 15/16   |        |    |      |
| 78503 |       | 78504 |         | 1       |        |    |      |
| 78505 |       | 78506 |         | 1.1/16  |        |    |      |
| 78507 |       | 78508 |         | 1.1/8   |        |    |      |
| 78509 |       | 78510 |         | 1.3/16  |        |    |      |
| 78511 | Cu-Be | 78512 | Al-Bron | 1.1/4   | 95     | 6  | 900  |
| 78513 |       | 78514 |         | 1.5/16  |        |    |      |
| 78515 |       | 78516 |         | 1.3/8   |        |    |      |
| 78517 |       | 78518 |         | 1.7/16  |        |    |      |
| 78519 |       | 78520 |         | 1.1/2   |        |    | 1100 |
| 78521 |       | 78522 |         | 1.5/8   |        |    | 1150 |
| 78523 |       | 78524 |         | 1.3/4   | 100    |    |      |
| 78525 |       | 78526 |         | 1.13/16 |        |    | 1200 |
| 78527 |       | 78528 |         | 1.7/8   |        |    |      |
| 78529 |       | 78530 |         | 2       |        |    | 1700 |

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g    |
|-------|-------|-------|---------|---------|--------|----|------|
| 78559 |       | 78560 |         | 3/4     |        |    |      |
| 78561 |       | 78562 |         | 13/16   |        |    |      |
| 78563 |       | 78564 |         | 7/8     | 90     |    | 800  |
| 78565 |       | 78566 |         | 15/16   |        |    |      |
| 78567 |       | 78568 |         | 1       |        |    |      |
| 78569 |       | 78570 |         | 1.1/16  |        |    |      |
| 78571 |       | 78572 |         | 1.1/8   |        |    |      |
| 78573 |       | 78574 |         | 1.3/16  |        |    |      |
| 78575 | Cu-Be | 78576 | Al-Bron | 1.1/4   | 95     | 12 | 900  |
| 78577 |       | 78578 |         | 1.5/16  |        |    |      |
| 78579 |       | 78580 |         | 1.3/8   |        |    |      |
| 78581 |       | 78582 |         | 1.7/16  |        |    |      |
| 78583 |       | 78584 |         | 1.1/2   |        |    | 1100 |
| 78585 |       | 78586 |         | 1.5/8   |        |    | 1150 |
| 78587 |       | 78588 |         | 1.3/4   | 100    |    |      |
| 78589 |       | 78590 |         | 1.13/16 |        |    | 1200 |
| 78591 |       | 78592 |         | 1.7/8   |        |    |      |
| 78593 |       | 78594 |         | 2       |        |    | 1700 |



Llaves de Impacto - Neumáticas e Hidráulicas, Cuadrado 1/2", 3/4", 1" y 1.1/2" para zonas ATEX - Ver capítulo de Seguridad Intrínseca.  
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Dovilles à choc - Pneumatiques et Hydrauliques, Carrée de 1/2", 3/4", 1" et 1.1/2" pour zones ATEX - Voir chapitre Sécurité Intrinsèque.

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Аллюминий Бронза

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1133

- 1"
- STANDARD
- MM
- 6 PT.

- 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g    |
|-------|-------|-------|---------|-------|--------|----|------|
| 72330 |       | 72331 |         | 19    |        |    | 650  |
| 72332 |       | 72333 |         | 21    |        |    |      |
| 72334 |       | 72335 |         | 22    |        |    |      |
| 72336 |       | 72337 |         | 24    |        |    |      |
| 72338 |       | 72339 |         | 26    | 60     |    | 700  |
| 72340 |       | 72341 |         | 27    |        |    |      |
| 72342 |       | 72343 |         | 29    |        |    |      |
| 72344 |       | 72345 |         | 30    |        |    | 750  |
| 72346 |       | 72347 |         | 32    |        |    |      |
| 72348 |       | 72349 |         | 34    |        |    | 800  |
| 72350 |       | 72351 |         | 35    |        |    | 850  |
| 72352 |       | 72353 |         | 36    | 70     |    |      |
| 72354 |       | 72355 |         | 38    |        |    | 900  |
| 72356 |       | 72357 |         | 41    |        |    |      |
| 72358 |       | 72359 |         | 46    | 80     |    | 1200 |
| 72360 | Cu-Be | 72361 | Al-Bron | 50    | 80     | 6  | 1500 |
| 72362 |       | 72363 |         | 52    |        |    | 1700 |
| 72364 |       | 72365 |         | 55    |        |    | 1800 |
| 72366 |       | 72367 |         | 58    |        |    | 1900 |
| 72368 |       | 72369 |         | 60    |        |    | 2000 |
| 72370 |       | 72371 |         | 65    | 90     |    | 2300 |
| 72372 |       | 72373 |         | 70    |        |    | 2700 |
| 72374 |       | 72375 |         | 75    |        |    | 3000 |
| 72376 |       | 72377 |         | 80    |        |    | 3300 |
| 79845 |       | 79846 |         | 85    |        |    | 3500 |
| 79847 |       | 79848 |         | 90    |        |    | 3700 |
| 79869 |       | 79870 |         | 95    | 100    |    | 4000 |
| 79871 |       | 79872 |         | 100   |        |    | 4500 |
| 79873 |       | 79874 |         | 105   | 110    |    | 5500 |
| 79875 |       | 79876 |         | 110   |        |    | 5750 |
| 79877 |       | 79878 |         | 115   | 115    |    | 7000 |

| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g    |
|-------|-------|-------|---------|-------|--------|----|------|
| 75900 |       | 75901 |         | 19    |        |    | 650  |
| 75902 |       | 75903 |         | 21    |        |    |      |
| 75904 |       | 75905 |         | 22    |        |    |      |
| 75906 |       | 75907 |         | 24    |        |    |      |
| 75908 |       | 75909 |         | 26    | 60     |    | 700  |
| 75910 |       | 75911 |         | 27    |        |    |      |
| 75912 |       | 75913 |         | 29    |        |    |      |
| 75914 |       | 75915 |         | 30    |        |    | 750  |
| 75916 |       | 75917 |         | 32    |        |    |      |
| 75918 |       | 75919 |         | 34    |        |    | 800  |
| 75920 |       | 75921 |         | 35    |        |    | 850  |
| 75922 | Cu-Be | 75923 | Al-Bron | 36    | 70     | 12 |      |
| 75924 |       | 75925 |         | 38    |        |    | 900  |
| 75926 |       | 75927 |         | 41    |        |    |      |
| 75928 |       | 75929 |         | 46    | 80     |    | 1200 |
| 75930 |       | 75931 |         | 50    | 80     |    | 1500 |
| 75932 |       | 75933 |         | 52    |        |    | 1700 |
| 75934 |       | 75935 |         | 55    |        |    | 1800 |
| 75936 |       | 75937 |         | 58    |        |    | 1900 |
| 75938 |       | 75939 |         | 60    | 90     |    | 2000 |
| 75940 |       | 75941 |         | 65    |        |    | 2300 |
| 75942 |       | 75943 |         | 70    |        |    | 2700 |
| 75944 |       | 75945 |         | 75    |        |    | 3000 |
| 75946 |       | 75947 |         | 80    |        |    | 3300 |



Llaves de Impacto - Neumáticas e Hidráulicas, Cuadrado 1/2", 3/4", 1" y 1.1/2" para zonas ATEX - Ver capítulo de Seguridad Intrínseca.  
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**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

- 1"
- STANDARD
- INCH
- 6 PT.



- 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g    |
|-------|-------|-------|---------|---------|--------|----|------|
| 79837 |       | 79838 |         | 3/4     | 60     |    | 650  |
| 79849 |       | 79850 |         | 7/8     |        |    |      |
| 79851 |       | 79852 |         | 1       | 55     |    | 700  |
| 79853 |       | 79854 |         | 1.1/16  |        |    |      |
| 78081 |       | 78082 |         | 1.1/8   |        |    | 750  |
| 79855 |       | 79856 |         | 1.3/16  |        |    |      |
| 78083 |       | 78084 |         | 1.1/4   | 60     |    |      |
| 78085 |       | 78086 |         | 1.5/16  |        |    | 800  |
| 79857 |       | 79858 |         | 1.3/8   |        |    |      |
| 79859 |       | 79860 |         | 1.7/16  |        |    |      |
| 78087 |       | 78088 |         | 1.1/2   |        |    | 850  |
| 78089 | Cu-Be | 78090 | Al-Bron | 1.5/8   | 65     | 6  | 950  |
| 79865 |       | 79866 |         | 1.11/16 |        |    | 900  |
| 79861 |       | 79862 |         | 1.3/4   |        |    | 1350 |
| 78091 |       | 78092 |         | 1.13/16 | 70     |    |      |
| 79863 |       | 79864 |         | 1.7/8   |        |    | 1400 |
| 79867 |       | 79868 |         | 1.15/16 |        |    |      |
| 78093 |       | 78094 |         | 2       | 75     |    | 1450 |
| 78095 |       | 78096 |         | 2.1/8   |        |    | 1850 |
| 78097 |       | 78098 |         | 2.3/8   | 85     |    | 2200 |
| 78099 |       | 78100 |         | 2.9/16  |        |    | 2450 |
| 78101 |       | 78102 |         | 2.3/4   |        |    | 2900 |
| 78103 |       | 78104 |         | 2.15/16 | 90     |    | 3150 |
| 78105 |       | 78106 |         | 3.1/8   |        |    | 3550 |

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g    |
|-------|-------|-------|---------|---------|--------|----|------|
| 78107 |       | 78108 |         | 1.1/8   | 60     |    | 800  |
| 78109 |       | 78110 |         | 1.1/4   | 65     |    | 900  |
| 78111 |       | 78112 |         | 1.5/16  |        |    |      |
| 78113 |       | 78114 |         | 1.1/2   | 70     |    | 1050 |
| 78115 |       | 78116 |         | 1.5/8   |        |    |      |
| 78117 |       | 78118 |         | 1.13/16 | 75     |    | 1500 |
| 78119 | Cu-Be | 78120 | Al-Bron | 2       | 80     | 12 | 2050 |
| 78121 |       | 78122 |         | 2.1/8   | 85     |    | 2300 |
| 78123 |       | 78124 |         | 2.3/8   | 90     |    | 2700 |
| 78125 |       | 78126 |         | 2.9/16  |        |    | 2950 |
| 78127 |       | 78128 |         | 2.3/4   | 95     |    | 3150 |
| 78129 |       | 78130 |         | 2.15/16 |        |    | 3350 |
| 78131 |       | 78132 |         | 3.1/8   |        |    | 3550 |



Llaves de Impacto - Neumáticas e Hidráulicas, Cuadrado 1/2", 3/4", 1" y 1.1/2" para zonas ATEX - Ver capítulo de Seguridad Intrínseca.  
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Douilles à choc - Pneumatiques et Hydrauliques, Carrée de 1/2", 3/4", 1" et 1.1/2" pour zones ATEX - Voir chapitre Sécurité Intrinsèque.

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

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■ 1"

■ SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

■ MM

■ 6 PT.

■ 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g    | COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g    |
|-------|-------|-------|---------|-------|--------|----|------|-------|-------|-------|---------|-------|--------|----|------|
| 78595 |       | 78596 |         | 19    |        |    | 900  | 78667 |       | 78668 |         | 19    |        |    | 900  |
| 78597 |       | 78598 |         | 21    |        |    | 950  | 78669 |       | 78670 |         | 21    |        |    | 950  |
| 78599 |       | 78600 |         | 22    |        |    |      | 78671 |       | 78672 |         | 22    |        |    |      |
| 78601 |       | 78602 |         | 24    |        |    | 1000 | 78673 |       | 78674 |         | 24    |        |    | 1000 |
| 78603 |       | 78604 |         | 26    |        |    | 1050 | 78675 |       | 78676 |         | 26    |        |    | 1050 |
| 78605 |       | 78606 |         | 27    |        |    |      | 78677 |       | 78678 |         | 27    |        |    |      |
| 78607 |       | 78608 |         | 29    | 100    |    | 1150 | 78679 |       | 78680 |         | 29    | 100    |    | 1150 |
| 78609 |       | 78610 |         | 30    |        |    |      | 78681 |       | 78682 |         | 30    |        |    |      |
| 78611 |       | 78612 |         | 32    |        |    | 1250 | 78683 |       | 78684 |         | 32    |        |    | 1250 |
| 78613 |       | 78614 |         | 34    |        |    | 1300 | 78685 |       | 78686 |         | 34    |        |    | 1300 |
| 78615 |       | 78616 |         | 35    |        |    | 1350 | 78687 |       | 78688 |         | 35    |        |    | 1350 |
| 76853 | Cu-Be | 76854 | Al-Bron | 36    |        | 6  | 1400 | 78689 | Cu-Be | 78690 | Al-Bron | 36    |        | 12 | 1400 |
| 78617 |       | 78618 |         | 38    |        |    | 1450 | 78691 |       | 78692 |         | 38    |        |    | 1450 |
| 78619 |       | 78620 |         | 41    |        |    | 1500 | 78693 |       | 78694 |         | 41    |        |    | 1500 |
| 78621 |       | 78622 |         | 46    | 115    |    | 2200 | 78695 |       | 78696 |         | 46    | 115    |    | 2200 |
| 78623 |       | 78624 |         | 50    |        |    | 2300 | 78697 |       | 78698 |         | 50    |        |    | 2300 |
| 78625 |       | 78626 |         | 52    |        |    | 2650 | 78699 |       | 78700 |         | 52    |        |    | 2650 |
| 78627 |       | 78628 |         | 55    | 125    |    | 2700 | 78701 |       | 78702 |         | 55    | 125    |    | 2700 |
| 78629 |       | 78630 |         | 58    |        |    | 100  | 78703 |       | 78704 |         | 58    |        |    | 2950 |
| 78631 |       | 78632 |         | 60    |        |    | 3000 | 78705 |       | 78706 |         | 60    |        |    | 3000 |
| 78633 |       | 78634 |         | 65    | 135    |    | 3950 | 78707 |       | 78708 |         | 65    | 135    |    | 3950 |
| 78635 |       | 78636 |         | 70    |        |    |      | 78709 |       | 78710 |         | 70    |        |    |      |
| 78637 |       | 78638 |         | 75    | 140    |    | 4750 | 78711 |       | 78712 |         | 75    | 140    |    | 4750 |
| 78639 |       | 78640 |         | 80    |        |    | 4800 | 78713 |       | 78714 |         | 80    |        |    | 4800 |



Llaves de Impacto - Neumáticas e Hidráulicas, Cuadrado 1/2", 3/4", 1" y 1.1/2" para zonas ATEX - Ver capítulo de Seguridad Intrínseca.  
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**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

37

**ANTICHISPA**  
**NON-SPARKING**  
**ANTIDÉFLAGRANT**  
**FUNKENFREI**  
**ANTISCINTILLA**  
**ANTI-DEFLAGRANTE**  
**ИСКРОБЕЗОПАСНЫЙ**



■ 1"

■ SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

■ INCH

■ 6 PT.

■ 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g    |
|-------|-------|-------|---------|---------|--------|----|------|
| 78641 |       | 78642 |         | 1.1/8   |        |    | 1150 |
| 78643 |       | 78644 |         | 1.1/4   |        |    | 1300 |
| 78645 |       | 78646 |         | 1.5/16  | 100    |    |      |
| 78647 |       | 78648 |         | 1.1/2   |        |    | 1450 |
| 78649 |       | 78650 |         | 1.5/8   |        |    | 1500 |
| 78651 |       | 78652 |         | 1.13/16 | 115    |    | 2200 |
| 78653 | Cu-Be | 78654 | Al-Bron | 2       |        | 6  | 2300 |
| 78655 |       | 78656 |         | 2.1/8   | 125    |    | 2700 |
| 78657 |       | 78658 |         | 2.3/8   |        |    | 3000 |
| 78659 |       | 78660 |         | 2.9/16  | 135    |    | 3950 |
| 78661 |       | 78662 |         | 2.3/4   |        |    | 4700 |
| 78663 |       | 78664 |         | 2.15/16 | 140    |    | 4800 |
| 78665 |       | 78666 |         | 3.1/8   |        |    | 4800 |

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g    |
|-------|-------|-------|---------|---------|--------|----|------|
| 78715 |       | 78716 |         | 1.1/8   |        |    | 1150 |
| 78717 |       | 78718 |         | 1.1/4   |        |    | 1300 |
| 78719 |       | 78720 |         | 1.5/16  | 100    |    |      |
| 78721 |       | 78722 |         | 1.1/2   |        |    | 1450 |
| 78723 |       | 78724 |         | 1.5/8   |        |    | 1500 |
| 78725 |       | 78726 |         | 1.13/16 | 115    |    | 2200 |
| 78727 | Cu-Be | 78728 | Al-Bron | 2       |        | 12 | 2300 |
| 78729 |       | 78730 |         | 2.1/8   | 125    |    | 2700 |
| 78731 |       | 78732 |         | 2.3/8   |        |    | 3000 |
| 78733 |       | 78734 |         | 2.9/16  | 135    |    | 3950 |
| 78735 |       | 78736 |         | 2.3/4   |        |    | 4700 |
| 78737 |       | 78738 |         | 2.15/16 | 140    |    | 4800 |
| 78739 |       | 78740 |         | 3.1/8   |        |    | 4800 |



Llaves de Impacto - Neumáticas e Hidráulicas, Cuadrado 1/2", 3/4", 1" y 1.1/2" para zonas ATEX - Ver capítulo de Seguridad Intrínseca.  
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**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

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**EGAMaster**  
 ART IN INNOVATION

1137

- 1.1/2"
- STANDARD
- MM
- 6 PT.

- 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt   | g    |
|-------|-------|-------|---------|-------|--------|------|------|
| 78133 |       | 78134 |         | 34    | 80     | 6    | 2200 |
| 78135 |       | 78136 |         | 36    |        |      |      |
| 78137 |       | 78138 |         | 38    |        |      |      |
| 78139 |       | 78140 |         | 41    |        |      |      |
| 78141 |       | 78142 |         | 46    | 85     | 2400 |      |
| 78143 |       | 78144 |         | 48    |        |      |      |
| 78145 |       | 78146 |         | 50    | 90     | 2650 |      |
| 78147 |       | 78148 |         | 54    |        |      |      |
| 78149 |       | 78150 |         | 55    |        |      |      |
| 78151 | Cu-Be | 78152 | Al-Bron | 60    | 95     | 6    | 3050 |
| 78153 |       | 78154 |         | 65    |        |      |      |
| 78155 |       | 78156 |         | 70    | 100    | 3800 |      |
| 78157 |       | 78158 |         | 75    |        |      |      |
| 78159 |       | 78160 |         | 80    | 110    | 4800 |      |
| 78161 |       | 78162 |         | 85    |        |      |      |
| 78163 |       | 78164 |         | 90    |        |      |      |
| 78165 |       | 78166 |         | 95    | 125    | 7650 |      |
| 78167 |       | 78168 |         | 100   |        |      |      |
| 78169 |       | 78170 |         | 105   | 130    | 8200 |      |
|       |       |       |         | 105   | 140    | 8800 |      |

| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt   | g    |
|-------|-------|-------|---------|-------|--------|------|------|
| 78211 |       | 78212 |         | 34    | 80     | 6    | 2200 |
| 78213 |       | 78214 |         | 36    |        |      |      |
| 78215 |       | 78216 |         | 38    |        |      |      |
| 78217 |       | 78218 |         | 41    |        |      |      |
| 78219 |       | 78220 |         | 46    | 85     | 2400 |      |
| 78221 |       | 78222 |         | 48    |        |      |      |
| 78223 |       | 78224 |         | 50    | 90     | 2600 |      |
| 78225 |       | 78226 |         | 54    |        |      |      |
| 78227 |       | 78228 |         | 55    |        |      |      |
| 78229 | Cu-Be | 78230 | Al-Bron | 60    | 95     | 12   | 3050 |
| 78231 |       | 78232 |         | 65    |        |      |      |
| 78233 |       | 78234 |         | 70    | 105    | 3800 |      |
| 78235 |       | 78236 |         | 75    |        |      |      |
| 78237 |       | 78238 |         | 80    | 110    | 4800 |      |
| 78239 |       | 78240 |         | 85    |        |      |      |
| 78241 |       | 78242 |         | 90    |        |      |      |
| 78243 |       | 78244 |         | 95    | 125    | 7650 |      |
| 78245 |       | 78246 |         | 100   |        |      |      |
| 78247 |       | 78248 |         | 105   | 130    | 8200 |      |
|       |       |       |         | 105   | 140    | 8800 |      |



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**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

# 37

**ANTICHISPA  
NON-SPARKING  
ANTIDÉFLAGRANT  
FUNKENFREI  
ANTISCINTILLA  
ANTI-DEFLAGRANTE  
ИСКРОБЕЗОПАСНЫЙ**



- 1.1/2"
- STANDARD
- INCH
- 6 PT.

- 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g     |
|-------|-------|-------|---------|---------|--------|----|-------|
| 78171 |       | 78172 |         | 1.3/8   | 80     |    | 2200  |
| 78173 |       | 78174 |         | 1.5/8   |        |    |       |
| 78175 |       | 78176 |         | 1.13/16 | 85     |    | 2400  |
| 78177 |       | 78178 |         | 2       | 90     |    | 2600  |
| 78179 |       | 78180 |         | 2.1/8   |        |    | 2650  |
| 78181 |       | 78182 |         | 2.3/8   | 95     |    | 3050  |
| 78183 |       | 78184 |         | 2.1/2   |        |    | 3300  |
| 78185 |       | 78186 |         | 2.9/16  | 100    |    | 3350  |
| 78187 |       | 78188 |         | 2.5/8   |        |    | 3400  |
| 78189 | Cu-Be | 78190 | Al-Bron | 2.3/4   | 105    | 6  | 3800  |
| 78191 |       | 78192 |         | 2.15/16 | 110    |    | 4100  |
| 78193 |       | 78194 |         | 3       |        |    | 4200  |
| 78195 |       | 78196 |         | 3.1/8   | 115    |    | 4800  |
| 78197 |       | 78198 |         | 3.3/8   | 120    |    | 5600  |
| 78199 |       | 78200 |         | 3.1/2   | 125    |    | 6700  |
| 78201 |       | 78202 |         | 3.3/4   |        |    | 7650  |
| 78203 |       | 78204 |         | 3.15/16 |        |    | 8200  |
| 78205 |       | 78206 |         | 4       | 130    |    |       |
| 78207 |       | 78208 |         | 4.1/8   |        |    | 8800  |
| 78209 |       | 78210 |         | 4.1/2   |        |    | 10000 |

| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g     |
|-------|-------|-------|---------|---------|--------|----|-------|
| 78249 |       | 78250 |         | 1.3/8   | 80     |    | 2200  |
| 78251 |       | 78252 |         | 1.5/8   |        |    |       |
| 78253 |       | 78254 |         | 1.13/16 | 85     |    | 2400  |
| 78255 |       | 78256 |         | 2       | 90     |    | 2600  |
| 78257 |       | 78258 |         | 2.1/8   |        |    | 2650  |
| 78259 |       | 78260 |         | 2.3/8   | 95     |    | 3050  |
| 78261 |       | 78262 |         | 2.1/2   |        |    | 3300  |
| 78263 |       | 78264 |         | 2.9/16  | 100    |    | 3350  |
| 78265 |       | 78266 |         | 2.5/8   | 100    |    | 3400  |
| 78267 | Cu-Be | 78268 | Al-Bron | 2.3/4   | 105    | 12 | 3800  |
| 78269 |       | 78270 |         | 2.15/16 | 110    |    | 4100  |
| 78271 |       | 78272 |         | 3       |        |    | 4200  |
| 78273 |       | 78274 |         | 3.1/8   | 115    |    | 4800  |
| 78275 |       | 78276 |         | 3.3/8   | 120    |    | 5600  |
| 78277 |       | 78278 |         | 3.1/2   | 125    |    | 6700  |
| 78279 |       | 78280 |         | 3.3/4   |        |    | 7650  |
| 78281 |       | 78282 |         | 3.15/16 |        |    | 8200  |
| 78283 |       | 78284 |         | 4       | 130    |    |       |
| 78285 |       | 78286 |         | 4.1/8   |        |    | 8800  |
| 78287 |       | 78288 |         | 4.1/2   |        |    | 10000 |



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**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

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- 2.1/2"
- STANDARD
- MM
- 6 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g     |
|-------|-------|-------|---------|-------|--------|----|-------|
| 78289 |       | 78290 |         | 75    | 140    | 6  | 8400  |
| 78291 |       | 78292 |         | 80    |        |    | 8700  |
| 78293 |       | 78294 |         | 85    |        |    | 8900  |
| 78295 |       | 78296 |         | 90    |        |    | 10250 |
| 78297 |       | 78298 |         | 95    |        |    | 10500 |
| 78299 | Cu-Be | 78300 | Al-Bron | 100   | 150    | 6  | 11300 |
| 78301 |       | 78302 |         | 105   |        |    | 12200 |
| 78303 |       | 78304 |         | 110   |        |    | 13250 |
| 78305 |       | 78306 |         | 115   |        |    | 14150 |
| 78307 |       | 78308 |         | 120   |        |    | 15050 |
| 78309 |       | 78310 |         | 125   | 15950  |    |       |

- 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF mm | L (mm) | Pt | g     |
|-------|-------|-------|---------|-------|--------|----|-------|
| 78333 |       | 78334 |         | 75    | 140    | 6  | 8400  |
| 78335 |       | 78336 |         | 80    |        |    | 8700  |
| 78337 |       | 78338 |         | 85    |        |    | 8900  |
| 78339 |       | 78340 |         | 90    |        |    | 10250 |
| 78341 |       | 78342 |         | 95    |        |    | 10500 |
| 78343 | Cu-Be | 78344 | Al-Bron | 100   | 150    | 12 | 11300 |
| 78345 |       | 78346 |         | 105   |        |    | 12200 |
| 78347 |       | 78348 |         | 110   |        |    | 13250 |
| 78349 |       | 78350 |         | 115   |        |    | 14150 |
| 78351 |       | 78352 |         | 120   |        |    | 15050 |
| 78353 |       | 78354 |         | 125   | 15950  |    |       |

- INCH
- 6 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g     |
|-------|-------|-------|---------|---------|--------|----|-------|
| 78311 |       | 78312 |         | 2.15/16 | 140    | 6  | 8400  |
| 78313 |       | 78314 |         | 3.1/8   |        |    | 8700  |
| 78315 |       | 78316 |         | 3.3/8   |        |    | 8900  |
| 78317 |       | 78318 |         | 3.1/2   |        |    | 10100 |
| 78319 |       | 78320 |         | 3.3/4   |        |    | 10500 |
| 78321 | Cu-Be | 78322 | Al-Bron | 3.15/16 | 150    | 6  | 11300 |
| 78323 |       | 78324 |         | 4.1/8   |        |    | 12250 |
| 78325 |       | 78326 |         | 4.5/16  |        |    | 12700 |
| 78327 |       | 78328 |         | 4.1/2   |        |    | 14200 |
| 78329 |       | 78330 |         | 4.3/4   |        |    | 15100 |
| 78331 |       | 78332 |         | 4.15/16 | 16000  |    |       |

- 12 PT.



| COD.  | MAT.  | COD.  | MAT.    | AF inch | L (mm) | Pt | g     |
|-------|-------|-------|---------|---------|--------|----|-------|
| 78355 |       | 78356 |         | 2.15/16 | 140    | 6  | 8400  |
| 78357 |       | 78358 |         | 3.1/8   |        |    | 8700  |
| 78359 |       | 78360 |         | 3.3/8   |        |    | 8900  |
| 78361 |       | 78362 |         | 3.1/2   |        |    | 10100 |
| 78363 |       | 78364 |         | 3.3/4   |        |    | 10500 |
| 78365 | Cu-Be | 78366 | Al-Bron | 3.15/16 | 150    | 12 | 11300 |
| 78367 |       | 78368 |         | 4.1/8   |        |    | 12250 |
| 78369 |       | 78370 |         | 4.5/16  |        |    | 12700 |
| 78371 |       | 78372 |         | 4.1/2   |        |    | 14200 |
| 78373 |       | 78374 |         | 4.3/4   |        |    | 15100 |
| 78375 |       | 78376 |         | 4.15/16 | 16000  |    |       |





Llaves de Impacto - Neumáticas e Hidráulicas, Cuadrado 1/2", 3/4", 1" y 1.1/2" para zonas ATEX - Ver capítulo de Seguridad Intrínseca.  
Impact Wrenches - Pneumatic and Hydraulic, 1/2", 3/4", 1" and 1.1/2" Sq. Drive for ATEX zones - See Intrinsic Safety chapter.  
Dovilles à choc - Pneumatiques et Hydrauliques, Carrée de 1/2", 3/4", 1" et 1.1/2" pour zones ATEX - Voir chapitre Sécurité Intrinsèque.



**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза





**ALARGADERA DE IMPACTO / IMPACT EXTENSION / RALLONGE À CHOC / KRAFTSCHRAUBER-VERLÄNGERUNG / PROLUNGA IMPACT / EXTENSÃO DE IMPACTO / УДАРНЫЙ УДЛИНИТЕЛЬ**

| COD.  | MAT.  | COD.  | MAT.    |  | L (mm) |  |
|-------|-------|-------|---------|-----------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------|
| 78377 | Cu-Be | 78378 | Al-Bron | 1/2                                                                               | 75     | 155                                                                                |
| 78379 |       | 78380 |         |                                                                                   | 125    | 240                                                                                |
| 78381 |       | 78382 |         | 3/4                                                                               | 550    |                                                                                    |
| 78383 |       | 78384 |         |                                                                                   | 250    | 1100                                                                               |
| 78385 |       | 78386 |         |                                                                                   | 150    | 1100                                                                               |
| 78387 |       | 78388 |         | 1                                                                                 | 300    | 2200                                                                               |




**ADAPTADOR DE IMPACTO / IMPACT ADAPTER / ADAPTATEUR À CHOC / IMPACT STECKCHLÜSSEL EINSATZ / ADATTATORE AD URTO / ADAPTADOR DE IMPACTO / УДАРНЫЙ ПЕРЕХОДНИК**

| COD.  | MAT.  | COD.  | MAT.    |  |  |
|-------|-------|-------|---------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 76711 | Cu-Be | 76712 | Al-Bron | 1/2-3/4                                                                           | 230                                                                                |
| 76495 |       | 76492 |         | 3/4-1/2                                                                           | 350                                                                                |
| 76713 |       | 76714 |         | 3/4-1                                                                             | 460                                                                                |
| 76715 |       | 76716 |         | 1-3/4                                                                             | 700                                                                                |
| 36202 |       | 36207 |         | 1-1.1/2                                                                           | 1550                                                                               |
| 73740 |       | 73743 |         | 1.1/2-1                                                                           | 3150                                                                               |


**ARTICULACIÓN UNIVERSAL DE IMPACTO / IMPACT UNIVERSAL JOINT / CARDAN UNIVERSAL POUR DOUILLE IMPACTE / KRAFTSCHRAUBER-UNIVERSAL-GELENK / SNODO CARDANICO IMPACT / CARDAN UNIVERSAL DE IMPACTO / УДАРНОЕ УНИВЕРСАЛЬНОЕ СОЕДИНЕНИЕ**

| COD.  | MAT.  | COD.  | MAT.    |  | L (mm) |  |
|-------|-------|-------|---------|-------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------|
| 76518 | Cu-Be | 76519 | Al-Bron | 1/2                                                                                 | 90     | 180                                                                                  |
| 76520 |       | 76521 |         | 3/4                                                                                 | 110    | 320                                                                                  |
| 76522 |       | 76525 |         | 1                                                                                   | 125    | 950                                                                                  |


**PASADOR DE SEGURIDAD / SAFETY PIN / GOUPILLE DE SECURITE / SICHERUNGSSTIFT / COPPIGLIA / PINO DE SEGURANÇA / ФИКСИРУЮЩИЙ ПАЛЕЦ**


| COD.  | MAT.  | COD.  | MAT.    |  | L (mm)  | Ø x L (mm) |  |
|-------|-------|-------|---------|-------------------------------------------------------------------------------------|---------|------------|-------------------------------------------------------------------------------------|
| 73711 | Cu-Be | 73716 | Al-Bron | 1/2                                                                                 | 8-14    | 4 x 20     | 2,1                                                                                 |
| 73721 |       | 73733 |         |                                                                                     | 15-50   | 4 x 25     | 2,3                                                                                 |
| 36578 |       | 36582 |         | 34-105                                                                              | 7 x 75  | 20         |                                                                                     |
| 36579 |       | 36583 |         | 35-108                                                                              | 7 x 105 | 28         |                                                                                     |
| 36580 |       | 36584 |         | 7-114                                                                               |         | 35         |                                                                                     |
| 36581 |       | 36585 |         | 75-125                                                                              |         | 10         |                                                                                     |
| 73621 |       | 73622 |         | 24-30                                                                               | 6 x 30  | 10         |                                                                                     |
| 73623 |       | 73624 |         | 32-50                                                                               | 6 x 40  | 15         |                                                                                     |
| 73625 |       | 73626 |         | 19-41                                                                               | 6 x 50  | 20         |                                                                                     |
| 73627 |       | 73628 |         | 46-80                                                                               | 6 x 60  | 20         |                                                                                     |





Llaves de Impacto - Neumáticas e Hidráulicas, Cuadrado 1/2", 3/4", 1" y 1.1/2" para zonas ATEX - Ver capítulo de Seguridad Intrínseca.  
Impact Wrenches - Pneumatic and Hydraulic, 1/2", 3/4", 1" and 1.1/2" Sq. Drive for ATEX zones - See Intrinsic Safety chapter.  
Douilles à choc - Pneumatiques et Hydrauliques, Carrée de 1/2", 3/4", 1" et 1.1/2" pour zones ATEX - Voir chapitre Sécurité Intrinsèque.

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

**LLAVES ESPECIALES / SPECIAL WRENCHES / CLÉS SPÉCIALES / SPEZIELL ZANGEN / CHIAVE SPECIALE / CHAVES ESPECIAIS / СПЕЦИАЛЬНЫЕ КЛЮЧИ**
**LLAVE DE VÁLVULA TIPO "Q" / "Q" VALVE SPANNER / CLÉ POUR VALVE TYPE "Q" / "Q" TYP VENTILSCHLÜSSEL / CHIAVE A VALVOLA TIPO "Q" / CHAVE DE VÁLVULAS TIPO "Q" / КЛАПАННЫЙ КЛЮЧ ТИП "Q"**

| COD.  | MAT.    | COD.  | MAT.  | L (mm) | Ø x (inch) |  |
|-------|---------|-------|-------|--------|------------|------------------------------------------------------------------------------------|
| 79961 |         | 79960 |       | 370    | 1.3/8"     | 600                                                                                |
| 79963 | Al-Bron | 79962 | Cu-Be | 430    | 1.7/8"     | 950                                                                                |
| 79965 |         | 79964 |       | 550    | 2.7/16"    | 2700                                                                               |




**LLAVE EN "C" / C WRENCH / CLÉ EN C / C SCHLÜSSEL / CHIAVE A C / CHAVE EM C / C-ОБРАЗНЫЙ КЛЮЧ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |  |
|-------|-------|-------|---------|--------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 72418 | Cu-Be | 72419 | Al-Bron | 450    | 40                                                                                | 1100                                                                               |




**LLAVE EN "C" DOBLE / DOUBLE C WRENCH / CLÉ EN DOUBLE C / DOPPEL C SCHLÜSSEL / CHIAVE DOPPIA A C / CHAVE EM C DUPLA / ДВОЙНОЙ C-ОБРАЗНЫЙ КЛЮЧ**

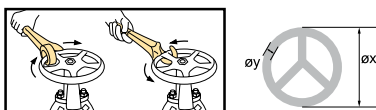
| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |  |  |
|-------|-------|-------|---------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 72420 | Cu-Be | 72421 | Al-Bron | 200    | 14,5                                                                              | 18,5                                                                              | 380                                                                                 |



**LLAVE DE VÁLVULA TIPO "F" / "F" TYPE VALVE WRENCH / CLÉ POUR VALVE TYPE "F" / "F" TYP VENTILSCHLÜSSEL / CHIAVE A VALVOLA TIPO "F" / CHAVE DE VÁLVULAS TIPO "F" / КЛАПАННЫЙ КЛЮЧ ТИП "F"**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |  |
|-------|-------|-------|---------|--------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 36232 | Cu-Be | 36233 | Al-Bron | 250    | 25                                                                                |                                                                                    |


**GANCHO GIRADOR DE VÁLVULAS / VALVE WHEEL HOOK / FIXATION GIRATOIRE DE VALVE / VENTILHAKEN / GANCIO GIREVOLE PER VALVOLE / GANCHO DE RODA VÁLVULAS / КЛЮЧ ДЛЯ ОТКРЫТИЯ КЛАПАНОВ**

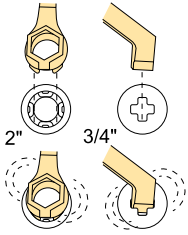
| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |  |
|-------|-------|-------|---------|--------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 72422 |       | 72423 |         | 200    | 30                                                                                  | 250                                                                                  |
| 72424 |       | 72425 |         | 300    | 32                                                                                  | 500                                                                                  |
| 72426 |       | 72427 |         |        | 35                                                                                  | 350                                                                                  |
| 72428 |       | 72429 |         | 350    | 40                                                                                  | 450                                                                                  |
| 72430 |       | 72431 |         |        | 45                                                                                  | 550                                                                                  |
| 72432 |       | 72433 |         | 375    | 48                                                                                  | 600                                                                                  |
| 72434 |       | 72435 |         | 400    | 50                                                                                  | 650                                                                                  |
| 72436 | Cu-Be | 72437 | Al-Bron | 450    | 55                                                                                  | 900                                                                                  |
| 72438 |       | 72439 |         | 500    | 60                                                                                  | 1150                                                                                 |
| 72440 |       | 72441 |         | 550    | 65                                                                                  | 1300                                                                                 |
| 72442 |       | 72443 |         | 600    | 70                                                                                  | 1400                                                                                 |
| 72444 |       | 72445 |         | 650    | 75                                                                                  | 1600                                                                                 |
| 72446 |       | 72447 |         | 700    | 80                                                                                  | 1700                                                                                 |
| 72448 |       | 72449 |         | 750    | 85                                                                                  | 2100                                                                                 |
| 72450 |       | 72451 |         | 800    | 90                                                                                  | 2200                                                                                 |


**LLAVE DE VÁLVULA LARGA / LONG VALVE WRENCH / CLÉ POUR LONGUES VALVES / LANGER VENTIL-SCHLÜSSEL / CHIAVE LARGA PER VALVOLE / CHAVE DE VÁLVULA LONGA / КЛЮЧ ДЛЯ ОТКРЫТИЯ КЛАПАНОВ ДЛИННЫЙ**


| COD.  | MAT.  | COD.  | MAT.    | L (mm) | Ø x (inch) | Ø y (mm) |  |
|-------|-------|-------|---------|--------|------------|----------|---------------------------------------------------------------------------------------|
| 71432 |       | 71435 |         | 210    | 3-7        | < 36     | 400                                                                                   |
| 71433 | Cu-Be | 71436 | Al-Bron | 400    | 8-15       | < 48     | 900                                                                                   |
| 71434 |       | 71437 |         | 490    |            |          | 1400                                                                                  |
| 71441 |       | 71445 |         | 800    | 16-20      | < 60     | 4600                                                                                  |



■ **LLAVE TAPONADORA / BUNG WRENCH / CLÉ OUVRE-BIDONS / PFROPFEN-SCHLÜSSEL / CHIAVE APRIFUSTI / CHAVE ABRE BIDÕES / ОТКРЫВАТЕЛЬ ПРОБОК**



| COD.  | MAT.  | COD.  | MAT.    | L (mm) | CAP. (inch) |     |
|-------|-------|-------|---------|--------|-------------|-----|
| 71446 | Cu-Be | 71447 | Al-Bron | 300    | 2-3/4       | 800 |



■ **LLAVE TAPONADORA UNIVERSAL / MUTI-HEAD BUNG WRENCH / CLÉ UNIVERSELLE À BOUCHON / MULTI-HEAD FASSSCHLÜSSEL / CHIAVE A TAPPO UNIVERSALE / CHAVE DE BUJÕES UNIVERSAL / ОТКРЫВАТЕЛЬ ПРОБОК С ГОЛОВКОЙ МУТИ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |      |
|-------|-------|-------|---------|--------|------|
| 72452 | Cu-Be | 72453 | Al-Bron | 385    | 1200 |

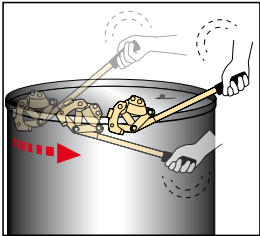


■ **LLAVE TAPONADORA ESPECIAL / SPECIAL BUNG WRENCH / CLÉ SPECIAL À BOUCHON / SPECIAL FASSSCHLÜSSEL / CHIAVE A TAPPO SPECIALE / CHAVE DE BUJÕES ESPECIAL / ОТКРЫВАТЕЛЬ ПРОБОК С ГОЛОВКОЙ МУТИ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |     |
|-------|-------|-------|---------|--------|-----|
| 36393 | Cu-Be | 76062 | Al-Bron | 256    | 850 |



■ **ABREBIDONES / DRUM OPENER / OUVRES BIDONS / FASSÖFFNER / APRITOIO A TAMBURO / ABRE BIDONS / ОТКРЫВАТЕЛЬ БОЧЕК**



| COD.  | MAT.  | COD.  | MAT.    | L (mm) |     |   |
|-------|-------|-------|---------|--------|-----|---|
| 74282 | Cu-Be | 74283 | Al-Bron | 485    | 3,0 | 1 |



■ **ABRIDOR DE TONELES DE CARBURO / CARBIDE DRUM OPENER / OUVRE BARIL DE CARBURANT / KARBID-TROMMELÖFFNER / APRIFUSTI PER BARILI DI CARBURO / UTENSÍLIO PARA ABERTURA DE TAMBORES DE CARBONETO / ИСКРОБЕЗОПАСНЫЙ НОЖ ДЛЯ ВСКРЫТИЯ БОЧЕК С КАРБИДОМ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |     |
|-------|-------|-------|---------|--------|-----|
| 72169 | Cu-Be | 72170 | Al-Bron | 280    | 650 |




■ **LLAVE DE GANCHO / HOOK SPANNER / CLÉ À ERGOT / ECKZANGE / CHIAVE A SETTORE / CHAVE DE GANCHO / КЛЮЧ КРЮК**


| COD.  | MAT.  | COD.  | MAT.    | L (mm) | CAP. (mm) |     |
|-------|-------|-------|---------|--------|-----------|-----|
| 71392 | Cu-Be | 71409 | Al-Bron | 105    | 12 - 14   | 40  |
| 71393 |       | 71410 |         | 110    | 16 - 20   | 50  |
| 71394 |       | 71411 |         | 130    | 25 - 28   | 80  |
| 71395 |       | 71412 |         |        | 30 - 32   | 100 |
| 71396 |       | 71413 |         | 170    | 34 - 36   |     |
| 71397 |       | 71414 |         |        | 40 - 42   | 150 |




**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

| COD.  | MAT.  | COD.      | MAT.    | L (mm)    | CAP. (mm) |  |
|-------|-------|-----------|---------|-----------|-----------|------------------------------------------------------------------------------------|
| 71398 | Cu-Be | 71415     | Al-Bron | 200       | 45 - 50   | 200                                                                                |
| 71399 |       | 71416     |         | 52 - 55   |           |                                                                                    |
| 71400 |       | 71417     |         | 58 - 62   |           |                                                                                    |
| 71401 |       | 71418     |         | 68 - 75   | 500       |                                                                                    |
| 71402 |       | 71419     |         | 80 - 90   | 600       |                                                                                    |
| 71403 |       | 71420     |         | 90 - 100  | 700       |                                                                                    |
| 71404 |       | 71421     |         | 95 - 100  | 800       |                                                                                    |
| 71405 |       | 71422     |         | 100 - 110 |           |                                                                                    |
| 71406 |       | 71423     |         | 110 - 115 | 900       |                                                                                    |
| 71407 |       | 71424     |         | 120 - 130 |           |                                                                                    |
| 71408 | 71425 | 135 - 145 |         |           |           |                                                                                    |


**LLAVE DE GANCHO ARTICULADA / ADJUSTABLE HOOK SPANNER / CLÉ À ERGOT ARTICULEE / ZANGE MIT VERSTELLBARE BACKE / CHIAVE A SETTORE REGOLABILE / CHAVE DE GANCHO ARTICULADA / РУГУЛИРУЕМЫЙ КЛЮЧ КРЮК**

| COD.  | MAT.  | COD.  | MAT.    | L (mm)  | CAP. (mm) |  |
|-------|-------|-------|---------|---------|-----------|------------------------------------------------------------------------------------|
| 71426 | Cu-Be | 71429 | Al-Bron | 210     | 32-75     | 200                                                                                |
| 71427 |       | 71430 |         | 50-120  | 500       |                                                                                    |
| 71428 |       | 71431 |         | 115-170 |           |                                                                                    |



**HERRAMIENTA PARA TUBO / PIPE TOOLS / OUTILLAGE TUBE / ROHR WERKZEUGE / FERRAMENTI PER TUBI / FERRAMENTA PARA TUBOS / ТРУБНЫЕ КЛЮЧИ**
**LLAVE HEAVY DUTY / HEAVY DUTY PIPE WRENCH / CLÉ SERRE-TUBES H.D. / EINHAND-ROHRZANGEN / GIRATUBI MODELLO AMERICANO PESANTE / CHAVE HEAVY DUTY / ТРУБНЫЙ КЛЮЧ ДЛЯ ТЯЖЕЛЫХ РАБОТ**

| COD.  | MAT.  | COD.  | MAT.    | L (inch) | CAP. (inch) |  |
|-------|-------|-------|---------|----------|-------------|--------------------------------------------------------------------------------------|
| 70121 | Cu-Be | 71458 | Al-Bron | 8        | 1           | 0,3                                                                                  |
| 70122 |       | 71459 |         | 1.1/2    | 0,8         |                                                                                      |
| 70123 |       | 71460 |         | 2        | 1,3         |                                                                                      |
| 70124 |       | 71461 |         | 1.7      | 1,7         |                                                                                      |
| 70125 |       | 71462 |         | 2.1/2    | 2,6         |                                                                                      |
| 70126 |       | 71463 |         | 3        | 4,5         |                                                                                      |
| 70127 |       | 71464 |         | 5        | 9,0         |                                                                                      |
| 70128 |       | 71465 |         | 6        | 16          |                                                                                      |


**LLAVE PICO PATO / OFFSET PIPE WRENCH 90° / CLÉ SERRE TUBE 90° / ECKROHRZANGE 90° / GIRATUBO 90°\* / CHAVE BICO DE PATO / КОЛЕНЧАТЫЙ ТРУБНЫЙ КЛЮЧ**

| COD.  | MAT.  | COD.  | MAT.    | L (inch) | CAP. (mm) |  |
|-------|-------|-------|---------|----------|-----------|--------------------------------------------------------------------------------------|
| 36305 | Cu-Be | 36310 | Al-Bron | 8        | 34        | 0,5                                                                                  |
| 36306 |       | 36311 |         | 48       | 0,8       |                                                                                      |
| 36307 |       | 36312 |         | 50       | 1,1       |                                                                                      |
| 36308 |       | 36313 |         | 60       | 1,9       |                                                                                      |
| 36309 |       | 36314 |         | 76       | 2,6       |                                                                                      |


**LLAVES SUECAS / SWEDISH PIPE WRENCHES / CLÉS SERRE-TUBES SUEDOISES / ECKROHRZANGE / GIRATUBI MOD. SUEDESE / CHAVES PARA TUBOS SUECAS / ТРУБНЫЕ ШВЕДСКИЕ КЛЮЧИ**
**LLAVE SUECA 45° / SWEDISH PIPE WRENCH 45° / SERRE-TUBES SUEDOISE 45° / ECKROHRZANGE 45° / GIRATUBI MOD. SUEDESE 45° / CHAVE SUECA 45° / ШВЕДСКИЙ КЛЮЧ S 45°**

| COD.  | MAT.  | COD.  | MAT.    | CAP. (inch) | L (mm) |  |
|-------|-------|-------|---------|-------------|--------|--------------------------------------------------------------------------------------|
| 70129 | Cu-Be | 71466 | Al-Bron | 1.1/2       | 420    | 1,4                                                                                  |
| 70130 |       | 71467 |         | 550         | 2,5    |                                                                                      |
| 79821 |       | 79824 |         | 700         | 4,5    |                                                                                      |



**LLAVE SUECA 90° / SWEDISH PIPE WRENCH 90° / CLÉ SERRE-TUBES SUEDOISE 90° / ECKROHRZANGE 90° / GIRATUBI MOD. SVEDESE 90° / CHAVE SUECA 90° / ТРУБНЫЙ ШВЕДСКИЙ КЛЮЧ 90°**

| COD.  | MAT.  | COD.  | MAT.    | CAP. (inch) | Kg  |
|-------|-------|-------|---------|-------------|-----|
| 79822 | Cu-Be | 79825 | Al-Bron | 2           | 2,5 |
| 79823 |       | 79826 |         | 3           | 4,5 |


**LLAVE SPUD / SPUD PIPE WRENCH / CLÉ SPUD / VERSTELBARE ROHRZANGE / GIRATUBI MODELLO SPUD / CHAVE PARA TUBO SPUD / ТРУБНЫЙ КЛЮЧ С ПАРАЛЛЕЛЬНЫМИ ГУБКАМИ**

| COD.  | MAT.  | COD.  | MAT.    | L (inch) | CAP. (mm) | Kg  |
|-------|-------|-------|---------|----------|-----------|-----|
| 71822 | Cu-Be | 71823 | Al-Bron | 12       | 58        | 1,2 |


**LLAVE DE CORREA / STRAP WRENCH / CLÉ À SANGLE / GURTRÖHRZANGE / GIRATUBI A NASTRO / CHAVE DE CORREIA / РЕМШКОВЫЙ КЛЮЧ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | CAP. (inch) | g   |
|-------|-------|-------|---------|--------|-------------|-----|
| 73906 | Cu-Be | 73907 | Al-Bron | 300    | 3           | 800 |


**LLAVE DE CADENA / CHAIN PIPE WRENCH / CLÉ À CHAÎNE / KETTEN-ROHRZANGE / GIRATUBI A CATENA / CHAVE CORRENTE / ЦЕПНОЙ КЛЮЧ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | CAP. (inch) | Kg  |
|-------|-------|-------|---------|--------|-------------|-----|
| 72976 | Cu-Be | 72977 | Al-Bron | 600    | 4           | 3,8 |
| 72978 |       | 72979 |         |        | 6           | 4,2 |
| 72980 |       | 72981 |         | 900    | 8           | 8,5 |
| 72982 |       | 72983 |         |        | 12          | 9,5 |



| COD.  | MAT.  | COD.  | MAT.    | L (mm) | CAP. (inch) | Kg  |
|-------|-------|-------|---------|--------|-------------|-----|
| 70131 | Cu-Be | 71468 | Al-Bron | 600    | 2           | 2,2 |
| 70132 |       | 71469 |         |        | 4           | 2,8 |
| 70133 |       | 71470 |         |        | 6           | 3,5 |


**CORTATUBOS / PIPE CUTTER / COUPE-TUBES / ROHRABSCHNEIDER / TAGLIATUBI / CORTA TUBOS / ТРУБОРЕЗ ДЛЯ СТАЛИ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | CAP. (inch) | H (mm) | Kg  |
|-------|-------|-------|---------|--------|-------------|--------|-----|
| 70134 | Cu-Be | 71471 | Al-Bron | 380    | 2           | 60     | 2,4 |

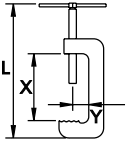



| COD.  | MAT.  | COD.  | MAT.    | L (mm) | CAP. (inch) | H (mm) | Kg   |
|-------|-------|-------|---------|--------|-------------|--------|------|
| 74327 | Cu-Be | 74330 | Al-Bron | 740    | 4-6         | 280    | 12,3 |
| 74340 |       | 74343 |         | 860    | 8-12        | 465    | 21   |


**TORNILLO DE BANCO PARALELO / PARALLEL BENCH VICE / ÉTAU À MORS PARALLELES / PARALLELSCHRAUBSTÖCKE / Morsa da Banco Paralela / TORNO DE BANCADA PARALELO / СПЕСАРНЫЕ ТИСКИ**


| COD.  | MAT.  | COD.  | MAT.    | inch | mm  | Kg |
|-------|-------|-------|---------|------|-----|----|
| 70482 | Cu-Be | 71636 | Al-Bron | 4    | 100 | 15 |
| 70483 |       | 71637 |         | 5    | 140 | 18 |
| 70486 |       | 72191 |         | 6    | 150 | 27 |
| 70487 |       | 72192 |         | 7    | 170 | 28 |







**PRENSA / CLAMP / PRESSE / KNEBEL / MORSETTO / PRENSA / СТРУБЦИНА**


| COD.  | MAT.  | COD.  | MAT.    | L (mm) | X   | Y   |  |
|-------|-------|-------|---------|--------|-----|-----|-------------------------------------------------------------------------------------|
| 72478 | Cu-Be | 72479 | Al-Bron | 210    | 60  |     | 1200                                                                                |
| 72480 |       | 72481 |         | 250    | 80  | 36  | 1400                                                                                |
| 72482 |       | 72483 |         | 290    | 100 |     | 1600                                                                                |
| 72484 |       | 72485 |         | 340    | 150 | 50  | 2000                                                                                |
| 73418 |       | 73425 |         | 400    | 250 | 150 | 4900                                                                                |






**SARGENTOS / CLAMPS / SERRE-JOINTS / ZWINGEN / MORSETTI SERRAGIUNTI / GRAMPOS / СТРУБЦИНЫ**
**MOD. F**

| COD.  | MAT.  | COD.  | MAT.    | CAP. (mm) |  |
|-------|-------|-------|---------|-----------|-----------------------------------------------------------------------------------|
| 74250 | Cu-Be | 74251 | Al-Bron | 400       | 2200                                                                              |


**DESTORNILLADORES / SCREWDRIVERS / TOURNEVIS / SCHRAUBENDREHER / CACCIAVITI / CHAVES DE FENDA / ОТВЕРТКИ**
**MECÁNICO / SLOTTED / MECANICIEN / WERSTATT / PER MECCANICI / МЕЦАНИКО / ПЛОСКАЯ**





| COD.  | MAT.  | COD.  | MAT.    |  |  |  |  |
|-------|-------|-------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 72258 | Cu-Be | 72279 | Al-Bron | 50                                                                                  | 3                                                                                   | 80                                                                                  | 35                                                                                    |
| 72259 |       | 72280 |         |                                                                                     | 4,5                                                                                 |                                                                                     | 43                                                                                    |
| 72260 |       | 72281 |         | 3                                                                                   | 35                                                                                  |                                                                                     |                                                                                       |
| 72261 |       | 72282 |         | 75                                                                                  | 4                                                                                   | 45                                                                                  |                                                                                       |
| 72262 |       | 72283 |         |                                                                                     | 5                                                                                   | 103                                                                                 | 70                                                                                    |
| 72263 |       | 72284 |         | 100                                                                                 | 4                                                                                   | 82                                                                                  | 45                                                                                    |
| 72264 |       | 72285 |         |                                                                                     | 5                                                                                   | 103                                                                                 | 75                                                                                    |
| 72265 |       | 72286 |         |                                                                                     |                                                                                     | 85                                                                                  |                                                                                       |
| 72266 |       | 72287 |         | 125                                                                                 | 6                                                                                   |                                                                                     | 100                                                                                   |
| 72267 |       | 72288 |         | 150                                                                                 |                                                                                     |                                                                                     | 110                                                                                   |
| 72268 |       | 72289 |         |                                                                                     | 7                                                                                   | 125                                                                                 |                                                                                       |
| 72269 |       | 72290 |         |                                                                                     |                                                                                     | 140                                                                                 |                                                                                       |
| 72270 |       | 72291 |         |                                                                                     | 200                                                                                 | 8                                                                                   |                                                                                       |
| 72271 |       | 72292 |         | 250                                                                                 | 9                                                                                   | 112                                                                                 | 185                                                                                   |
| 72272 |       | 72293 |         | 200                                                                                 | 10                                                                                  |                                                                                     | 260                                                                                   |
| 72273 |       | 72294 |         | 300                                                                                 |                                                                                     |                                                                                     | 230                                                                                   |
| 72274 |       | 72295 |         | 250                                                                                 |                                                                                     |                                                                                     | 240                                                                                   |
| 72275 |       | 72296 |         | 300                                                                                 | 11                                                                                  |                                                                                     | 290                                                                                   |
| 72276 |       | 72297 |         | 350                                                                                 |                                                                                     |                                                                                     | 320                                                                                   |







| COD.  | MAT.  | COD.  | MAT.    |  |  |  |  |
|-------|-------|-------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 72277 | Cu-Be | 72298 | Al-Bron | 400                                                                                 | 12                                                                                  | 150                                                                                 | 400                                                                                   |
| 72278 |       | 72299 |         | 450                                                                                 | 13                                                                                  |                                                                                     | 480                                                                                   |







**ELECTRICISTA / ELECTRICIAN / ELECTRICIEN / ELEKTRIKER / PER ELETTRICISTI / ELETRICISTA / ЭЛЕКТРИЧЕСКАЯ**

| COD.  | MAT.  | COD.  | MAT.    |  |  |  |  |
|-------|-------|-------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 74756 |       | 74757 |         | 50                                                                                | 2,5                                                                               | 84                                                                                | 36                                                                                  |
| 71581 |       | 71588 |         |                                                                                   | 3                                                                                 | 75                                                                                | 50                                                                                  |
| 76480 |       | 76481 |         | 100                                                                               |                                                                                   | 84                                                                                |                                                                                     |
| 71582 |       | 71589 |         |                                                                                   | 4                                                                                 |                                                                                   | 70                                                                                  |
| 71583 |       | 71590 |         | 150                                                                               |                                                                                   |                                                                                   | 80                                                                                  |
| 72306 |       | 72308 |         | 100                                                                               |                                                                                   | 75                                                                                | 100                                                                                 |
| 72307 | Cu-Be | 72309 | Al-Bron | 200                                                                               | 5                                                                                 |                                                                                   | 200                                                                                 |
| 74758 |       | 74759 |         | 100                                                                               | 5,5                                                                               | 115                                                                               | 100                                                                                 |
| 71584 |       | 71591 |         |                                                                                   | 6                                                                                 | 95                                                                                |                                                                                     |
| 75268 |       | 75269 |         | 150                                                                               | 7                                                                                 | 115                                                                               |                                                                                     |
| 71585 |       | 71592 |         |                                                                                   | 8                                                                                 |                                                                                   | 200                                                                                 |
| 71586 |       | 71593 |         | 200                                                                               |                                                                                   | 105                                                                               |                                                                                     |
| 71587 |       | 71594 |         | 300                                                                               | 10                                                                                |                                                                                   | 300                                                                                 |






**PHILLIPS®\***

| COD.  | MAT.  | COD.  | MAT.    |  |  |  |  |
|-------|-------|-------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 72909 |       | 72910 |         | PH-0                                                                              | 60                                                                                | 75                                                                                | 40                                                                                  |
| 71595 |       | 71599 |         | PH-1                                                                              | 80                                                                                |                                                                                   | 50                                                                                  |
| 76486 |       | 76487 |         |                                                                                   | 100                                                                               | 105                                                                               | 70                                                                                  |
| 71596 | Cu-Be | 71600 | Al-Bron | PH-2                                                                              |                                                                                   | 95                                                                                |                                                                                     |
| 76488 |       | 76489 |         |                                                                                   | 125                                                                               | 115                                                                               | 100                                                                                 |
| 71597 |       | 71601 |         | PH-3                                                                              | 150                                                                               | 95                                                                                | 80                                                                                  |
| 71598 |       | 71602 |         | PH-4                                                                              | 200                                                                               | 105                                                                               | 100                                                                                 |


**POZIDRIV®\***

| COD.  | MAT.  | COD.  | MAT.    |  |  |  |  |
|-------|-------|-------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 74336 |       | 74337 |         | PZ-0                                                                                | 50                                                                                  |                                                                                     | 35                                                                                    |
| 74347 |       | 74348 |         | PZ-1                                                                                | 75                                                                                  | 82                                                                                  | 40                                                                                    |
| 72247 | Cu-Be | 72246 | Al-Bron | PZ-2                                                                                | 100                                                                                 |                                                                                     | 80                                                                                    |
| 72249 |       | 72248 |         | PZ-3                                                                                | 150                                                                                 | 112                                                                                 | 135                                                                                   |
| 74365 |       | 74366 |         | PZ-4                                                                                | 200                                                                                 |                                                                                     | 210                                                                                   |


**TORX®\***





| COD.  | MAT.  | COD.  | MAT.    |  |  |  |  |
|-------|-------|-------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 35714 |       | 35715 |         | T 10                                                                                |                                                                                     |                                                                                     | 67                                                                                    |
| 35716 |       | 35717 |         | T 15                                                                                | 75                                                                                  | 98                                                                                  | 71                                                                                    |
| 35718 |       | 35719 |         | T 20                                                                                | 100                                                                                 |                                                                                     | 98                                                                                    |
| 74367 |       | 74368 |         | T 25                                                                                | 125                                                                                 |                                                                                     | 103                                                                                   |
| 35720 | Cu-Be | 35721 | Al-Bron | T 27                                                                                |                                                                                     | 108                                                                                 |                                                                                       |
| 35722 |       | 35723 |         | T 30                                                                                | 150                                                                                 |                                                                                     | 108                                                                                   |
| 35724 |       | 35725 |         | T 40                                                                                | 200                                                                                 |                                                                                     | 160                                                                                   |
| 35726 |       | 35727 |         | T 45                                                                                | 250                                                                                 | 120                                                                                 | 180                                                                                   |







**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminium bronzo / Сплав Алюминий Бронза

- \*Para tornillos PHILLIPS® (Marca registrada por Phillips Screw Company) / \*For screws PHILLIPS® (Phillips Screw Company registered trademark) / \*Pour vis PHILLIPS® (Marque enregistrée par Phillips Screw Company)
- \*Para tornillos POZIDRIV® (Marca registrada por European Ind. Serv. Ltd.) / \*For screws POZIDRIV® (European Ind. Serv. Ltd. registered trademark) / \*Pour vis POZIDRIV® (Marque enregistrée par European Ind. Serv. Ltd.)
- \*Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)



**TAMPER TORX**

| COD.  | MAT.  | COD.  | MAT.    |  |  |  |  |
|-------|-------|-------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 35700 | Cu-Be | 35701 | Al-Bron | TT 10                                                                             | 75                                                                                | 98                                                                                | 67                                                                                  |
| 35702 |       | 35703 |         | TT 15                                                                             |                                                                                   |                                                                                   | 71                                                                                  |
| 35704 |       | 35705 |         | TT 20                                                                             |                                                                                   |                                                                                   | 98                                                                                  |
| 74349 |       | 74350 |         | TT 25                                                                             | 103                                                                               |                                                                                   |                                                                                     |
| 35706 |       | 35707 |         | TT 27                                                                             | 108                                                                               |                                                                                   |                                                                                     |
| 35708 |       | 35709 |         | TT 30                                                                             | 108                                                                               |                                                                                   |                                                                                     |
| 35710 |       | 35711 |         | TT 40                                                                             | 160                                                                               |                                                                                   |                                                                                     |
| 35712 |       | 35713 |         | TT 45                                                                             | 180                                                                               |                                                                                   |                                                                                     |


**DE VASO HEXAGONAL / HEXAGONAL SOCKET / DOUILLE HEXAGONALE / SCHRAUBENDREHER EINSATZ HEX / BUSSOLE ESAGONALI / CHAVE DE CAIXA HEXAGONAL / ШЕСТИГРАННАЯ ГОЛОВКА**

| COD.  | MAT.  | COD.  | MAT.    |  |  |  |  |
|-------|-------|-------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 73879 | Cu-Be | 73880 | Al-Bron | 6                                                                                 | 90                                                                                | 100                                                                               | 85                                                                                  |
| 73878 |       | 73891 |         | 7                                                                                 |                                                                                   |                                                                                   | 95                                                                                  |
| 73881 |       | 73882 |         | 8                                                                                 | 100                                                                               |                                                                                   |                                                                                     |
| 73883 |       | 73884 |         | 10                                                                                | 110                                                                               |                                                                                   |                                                                                     |
| 73885 |       | 73886 |         | 13                                                                                | 180                                                                               |                                                                                   |                                                                                     |
| 73887 |       | 73888 |         | 16                                                                                | 120                                                                               | 220                                                                               |                                                                                     |
| 73889 |       | 73890 |         | 17                                                                                | 120                                                                               | 230                                                                               |                                                                                     |


**SET**
**6 PCS.**

| COD.  | MAT.    | PCS. |  |  |
|-------|---------|------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 76465 | Cu-Be   | 6    | 3 x 50 (72258), 4 x 100 (72263),<br>5 x 100 (72264), 8 x 150 (72269)                | PH-1 (71595), PH-2 (71596)                                                           |
| 76466 | Al-Bron |      | 3 x 50 (72279), 4 x 100 (72284),<br>5 x 100 (72285), 8 x 150 (72290)                | PH-1 (71599), PH-2 (71600)                                                           |
| 76467 | Cu-Be   | 6    | 3 x 50 (71581), 4 x 100 (71582),<br>5 x 100 (72306), 8 x 150 (71585)                | PH-1 (71595), PH-2 (71596)                                                           |
| 76468 | Al-Bron |      | 3 x 50 (71588), 4 x 100 (71589),<br>5 x 100 (72308), 8 x 150 (71592)                | PH-1 (71599), PH-2 (71600)                                                           |















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**ANTICHISPA  
NON-SPARKING  
ANTIDÉFLAGRANT  
FUNKENFREI  
ANTISCINTILLA  
ANTI-DEFLAGRANTE  
ИСКРОБЕЗОПАСНЫЙ**





8 PCS.

| COD.                                                                                                                    | MAT.    | PCS. |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------|---------|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>76469</b>                                                                                                            | Cu-Be   | 8    | mm                                                                                |  |  |
| <b>76470</b>                                                                                                            | Al-Bron |      |                                                                                   |                                                                                   |                                                                                     |
| 3 x 50 (72258), 4 x 100 (72263), 5 x 100 (72264), 6 x 100 (72265) PH-1 (71595), PH-2 (71596) PZ-1 (74347), PZ-2 (72247) |         |      |                                                                                   |                                                                                   |                                                                                     |
| 3 x 50 (72279), 4 x 100 (72284), 5 x 100 (72285), 6 x 100 (72286) PH-1 (71599), PH-2 (71600) PZ-1 (74348), PZ-2 (72246) |         |      |                                                                                   |                                                                                   |                                                                                     |
| COD.                                                                                                                    | MAT.    | PCS. |  |  |  |
| <b>76471</b>                                                                                                            | Cu-Be   | 8    | mm                                                                                |  |  |
| <b>76472</b>                                                                                                            | Al-Bron |      |                                                                                   |                                                                                   |                                                                                     |
| 3 x 50 (71581), 4 x 100 (71582), 5 x 100 (72306), 6 x 100 (71584) PH-1 (71595), PH-2 (71596) PZ-1 (74347), PZ-2 (72247) |         |      |                                                                                   |                                                                                   |                                                                                     |
| 3 x 50 (71588), 4 x 100 (71589), 5 x 100 (72308), 6 x 100 (71591) PH-1 (71599), PH-2 (71600) PZ-1 (74348), PZ-2 (72246) |         |      |                                                                                   |                                                                                   |                                                                                     |

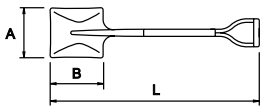


**DESTORNILLADOR ACODADO / OFFSET SCREWDRIVER / TOURNEVIS CONTRE COUDÉ / WINKELSCHRAUBENDREHER / CACCIAVITE A SQUADRA / CHAVE DE PARAFUSOS ANGULAR / КОЛЕНЧАТАЯ ОТВЕРТКА**

| COD.         | MAT.  | COD.         | MAT.    | L (mm) |  |  |
|--------------|-------|--------------|---------|--------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>74301</b> | Cu-Be | <b>74302</b> | Al-Bron | 125    | 4                                                                                 | 50                                                                                 |
| <b>72462</b> |       | <b>72463</b> |         | 72     | 6                                                                                 | 25                                                                                 |
| <b>72464</b> |       | <b>72465</b> |         | 125    | 8                                                                                 | 50                                                                                 |
| <b>72466</b> |       | <b>72467</b> |         | 195    | 10                                                                                | 125                                                                                |



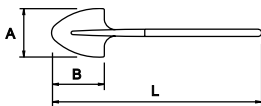
**PALAS Y RASTRILLOS / SHOVELS AND RAKES / PELLES ET RÂTEAUX / SCHAUFEL UND RECHEN / PALE E RASTRELLI / PÁS E ANSINHOS / ЛОПАТЫ И ГРАБЛИ**



| COD.         | MAT.  | COD.         | MAT.    | L (mm) | A (mm) | B (mm) |  |
|--------------|-------|--------------|---------|--------|--------|--------|---------------------------------------------------------------------------------------|
| <b>71615</b> | Cu-Be | <b>71616</b> | Al-Bron | 1350   | 240    | 290    | 1500                                                                                  |



**PALA PUNTA / ROUND POINT SHOVEL / PELLE EN POINTE / SCHWANENHALSSCHAUFEL / PALA A PUNTA TONDA / PA DE BICO / САДОВАЯ ЛОПАТА**



| COD.         | MAT.  | COD.         | MAT.    | L (mm) | A (mm) | B (mm) |  |
|--------------|-------|--------------|---------|--------|--------|--------|---------------------------------------------------------------------------------------|
| <b>71617</b> | Cu-Be | <b>71618</b> | Al-Bron | 1350   | 240    | 290    | 1500                                                                                  |



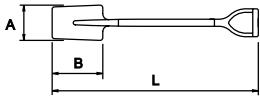
**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

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 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
 Si vous ne trouvez pas l'article que vous desirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)

**EGAMaster**  
ART IN INNOVATION

1149

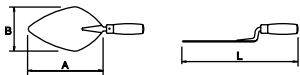
■ **PALA DE CAVAR / EDGING SPADE / PELLE BÛCHE / SCHAUFEL VIERECKING / PALA PER SCAVARE / PA DE VALAR / СОВКОВАЯ ЛОПАТА**




| COD.         | MAT.  | COD.         | MAT.    | L (mm) | A (mm) | B (mm) |  |
|--------------|-------|--------------|---------|--------|--------|--------|-------------------------------------------------------------------------------------|
| <b>71619</b> | Cu-Be | <b>71620</b> | Al-Bron | 1120   | 180    | 280    | 1500                                                                                |



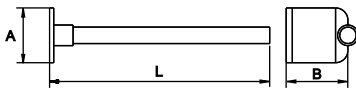
■ **PALETA / BRICKLAYER / SPATULE / MAUERKELLE / PALETTA / COLHER / МАСТЕРОК**




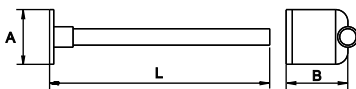
| COD.         | MAT.  | COD.         | MAT.    | L (mm) | A (mm) | B (mm) |  |
|--------------|-------|--------------|---------|--------|--------|--------|-------------------------------------------------------------------------------------|
| <b>73772</b> | Cu-Be | <b>73773</b> | Al-Bron | 335    | 210    | 130    | 650                                                                                 |




■ **AZADA / HOE / PIOCHE / HAUE / ZAPPA / ENXADA / МОТЫГА**



| COD.         | MAT.  | COD.         | MAT.    | L (mm) | A (mm) | B (mm) |  |
|--------------|-------|--------------|---------|--------|--------|--------|--------------------------------------------------------------------------------------|
| <b>74253</b> | Cu-Be | <b>74254</b> | Al-Bron | 900    | 130    | 130    | 1200                                                                                 |
| <b>74255</b> |       | <b>74256</b> |         |        | 200    | 200    | 1800                                                                                 |




| COD.         | MAT.  | COD.         | MAT.    | L (mm) | A (mm) | B (mm) |  |
|--------------|-------|--------------|---------|--------|--------|--------|---------------------------------------------------------------------------------------|
| <b>74252</b> | Cu-Be | <b>74249</b> | Al-Bron | 900    | 130    | 130    | 1000                                                                                  |
| <b>36224</b> |       | <b>36225</b> |         |        | 200    | 200    | 1700                                                                                  |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**


Fibra de vidrio / Fiberglass / Fibre en verre

■ **HORQUILLA 3 PUNTAS / 3 PRONG FORK / FOURCHE À TROIS POINTES / SPATENGABEL MIT 2 ZINKEN / FORCA A 3 PUNTE / FORQUILHA 3 PONTAS / 3-ЗУБЬЕВЫЕ ВИЛЫ**


| COD.         | MAT.  | COD.         | MAT.    | L x W x H (mm)   |  |
|--------------|-------|--------------|---------|------------------|--------------------------------------------------------------------------------------|
| <b>74231</b> | Cu-Be | <b>74232</b> | Al-Bron | 1025 x 200 x 185 | 1500                                                                                 |



■ **HORQUILLA 4 PUNTAS / 4 PRONG FORK / FOURCHE À QUATRE POINTES / SPATENGABEL MIT 4 ZINKEN / FORCA A 4 PUNTE / FORQUILHA 4 PONTAS / 4-ЗУБЬЕВЫЕ ВИЛЫ**

| COD.         | MAT.  | COD.         | MAT.    | L x W (mm) |  |
|--------------|-------|--------------|---------|------------|-------------------------------------------------------------------------------------|
| <b>74234</b> | Cu-Be | <b>74235</b> | Al-Bron | 1225 x 200 | 2000                                                                                |



| COD.         | MAT.  | COD.         | MAT.    | L x W (mm) |  |
|--------------|-------|--------------|---------|------------|-------------------------------------------------------------------------------------|
| <b>74246</b> | Cu-Be | <b>74244</b> | Al-Bron | 900 x 200  | 2000                                                                                |




**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**


Fibra de vidrio / Fiberglass / Fibre en verre

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Копер бериллий / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза



**RASTRILLO LIMPIADOR DE OXIDO / RUST CLEANING RAKE / RÂTEAU POUR NETTOYAGE DE L'OXIDE / RECHEN F / ROST RASTRELLO PER PULIRE L'OSSIDO / ANSINHO LIMPADOR DE OXIDO / СКРЕБОК ДЛЯ УДАЛЕНИЯ РЖАВЧИНЫ**

| COD.  | MAT.  | COD.  | MAT.    | L x W x H (mm)  |  |
|-------|-------|-------|---------|-----------------|-----------------------------------------------------------------------------------|
| 74237 | Cu-Be | 74238 | Al-Bron | 350 x 100 x 100 | 900                                                                               |


**RASTRILLO / RAKE / RATEAU / RECHEN / RASTRELLO / ANSINHO / СКРЕБОК**

| COD.  | MAT.  | COD.  | MAT.    | L x W x H (mm)   |  |
|-------|-------|-------|---------|------------------|-----------------------------------------------------------------------------------|
| 74258 | Cu-Be | 74259 | Al-Bron | 1270 x 350 x 100 | 1300                                                                              |
| 74260 |       | 74261 |         | 1270 x 450 x 120 | 1500                                                                              |



**CORTE / CUTTING / OUTILS COUPANTS / SCHNEIDWERKZEUG / ARCHETTI / CORTE / РЕЗКА**
**CORTAVARILLAS / BOLT CUTTERS / COUPE-BOULONS / BOLZENSCHNEIDER / TAGLIABULLONI / CORTA VARAO / АРМАТУРНЫЕ НОЖНИЦЫ**

| COD.  | MAT.  | COD.  | MAT.    | L (inch) |  |  |
|-------|-------|-------|---------|----------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 73876 | Cu-Be | 74216 | Al-Bron | 12       | 4-2                                                                               | 1450                                                                               |
| 73908 |       | 74221 |         | 14       | 5-3                                                                               | 1600                                                                               |
| 73939 |       | 74224 |         | 18       | 6-4                                                                               | 2500                                                                               |
| 73415 |       | 73423 |         | 24       | 8-5                                                                               | 3000                                                                               |




| COD.  | MAT.  | COD.  | MAT.    | L (inch) |
|-------|-------|-------|---------|----------|
| 36278 | Cu-Be | 36279 | Al-Bron | 12       |
| 36280 |       | 36281 |         | 14       |
| 36282 |       | 36283 |         | 18       |
| 35760 |       | 35761 |         | 24       |



**CIZALLA DE PASO LIBRE A LA DERECHA / RIGTH CUT NIPPER SHEAR / CISAILLE COUPE DROITE / SCHNEIDSCHERE RECHTS / CESOIA TAGLIO DESTRO / TESOURA DE PASSAGEM LIVRE A DIREITA / НОЖНИЦЫ ПРАВОЙ РЕЗКИ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-------------------------------------------------------------------------------------|
| 70528 | Cu-Be | 70545 | Al-Bron | 275    | 600                                                                                 |



**TIJERAS / TIN SNIPS / CISAILLES / BLECHSCHERE / FORBICI / TESOURAS / НОЖНИЦЫ ДЛЯ ЖЕСТИ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-------------------------------------------------------------------------------------|
| 70529 | Cu-Be | 70546 | Al-Bron | 225    | 300                                                                                 |




| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-------------------------------------------------------------------------------------|
| 72460 | Cu-Be | 72461 | Al-Bron | 150    | 90                                                                                  |



| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-------------------------------------------------------------------------------------|
| 73892 | Cu-Be | 73893 | Al-Bron | 290    | 220                                                                                 |
| 73894 |       | 73895 |         | 360    | 850                                                                                 |


**TIJERAS DE HOJALATERO / TIN SNIPS / CISEAUX DE TOLIER / BLECHSCHEREN / CESOIA PER LATTONNIERI / TESOURAS DE CHAPA / НОЖНИЦЫ ПО ЖЕСТИ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-------------------------------------------------------------------------------------|
| 72458 | Cu-Be | 72459 | Al-Bron | 300    | 450                                                                                 |



**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

ARCO DE SIERRA / HACK SAW / MONTURE DE SCIE À MÉTAUX / METALLSÄGEN GEBOGEN / ARCHETTI / ARCO DE SERRA / НОЖОВКА

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | g   |
|-------|-------|-------|---------|--------|-----|
| 72220 | Cu-Be | 72221 | Al-Bron | 500    | 600 |



HOJAS PARA ARCO DE SIERRA / HACKSAW BLADES / LAMES DE SCIES / METALLSÄGEBLÄTTER / LAME PER ARCHETTI / FOLHA DE SERRA / ПОЛОТНА ДЛЯ НОЖОВКИ

| COD.  | MAT.  | L (mm) | TPI | g  |
|-------|-------|--------|-----|----|
| 72223 | Cu-Be | 300    | 18  | 35 |



SIERRA MANUAL / HANDSAW / SCIE À MAIN / HANDSÄGE / ARCO MANUALE / SERROTE MANUAL / НОЖОВКА

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | g   |
|-------|-------|-------|---------|--------|-----|
| 72468 | Cu-Be | 72469 | Al-Bron | 370    | 125 |



SERRUCHO / HANDSAW / SCIE ÉGOÏNE / HANDSÄGE / SEGHETTO / SERROTE / НОЖОВКА

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | g   |
|-------|-------|-------|---------|--------|-----|
| 74228 | Cu-Be | 74229 | Al-Bron | 700    | 550 |



CUCHILLOS / KNIVES / COUTEAUX / MESSER / COLTELLI / FACAS / НОЖИ

| COD.  | MAT.  | COD.  | MAT.    | L (mm)   | g  |
|-------|-------|-------|---------|----------|----|
| 71611 | Cu-Be | 71612 | Al-Bron | 30 x 200 | 70 |



| COD.  | MAT.  | COD.  | MAT.    | L (mm) | g  |
|-------|-------|-------|---------|--------|----|
| 71613 | Cu-Be | 71614 | Al-Bron | 250    | 90 |



NAVAJA DE ELECTRICISTA / ELECTRICIAN KNIFE / COUTEAU ELECTRICIEN / ELEKTRIKER MESSER / COLTELLO PER ELETTRICISTI / NAVALHA DE ELETRICISTA / НОЖИ ДЛЯ ЭЛЕКТРИКА

| COD.  | MAT.  | COD.  | MAT.    | L (mm)   | g   |
|-------|-------|-------|---------|----------|-----|
| 73741 | Cu-Be | 73742 | Al-Bron | 60 x 115 | 180 |



BROCAS / TWIST DRILL / MÈCHES / BOHRER / PUNTE PER TRAPANO / BROCAS / СВЕРЛО

| COD.  | MAT.  | O.D. mm | L (mm) | g   |
|-------|-------|---------|--------|-----|
| 73632 | Cu-Be | 6       | 100    | 25  |
| 73633 |       | 7       | 120    | 35  |
| 73634 |       | 8       | 140    | 55  |
| 73635 |       | 9       | 160    | 80  |
| 73636 |       | 10      | 180    | 110 |
| 73637 |       | 11      | 200    | 150 |
| 73638 |       | 12      | 220    | 200 |
| 73639 |       | 13      | 240    | 250 |
| 73640 |       | 14      | 260    | 320 |
| 73641 |       | 15      | 280    | 400 |
| 73642 |       | 16      | 300    | 470 |
| 73643 |       | 17      | 320    | 540 |
| 73644 |       | 18      | 320    | 650 |
| 73645 |       | 19      | 320    | 720 |
| 73646 | 20    | 330     | 820    |     |



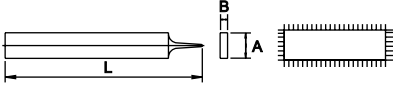
CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Para materiales con dureza < 20HRC / For materials with hardness < 20HRC / Pour les matériaux de dureté < 20HRC

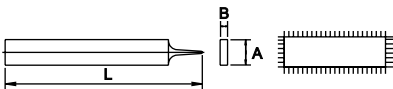
Cu-Be Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
Al-Bron Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

■ **LIMAS / FILES / LIMES / FEILEN / LIMA / LIMAS / НАПИЛЬНИКИ**

■ **LIMA PLANA / HAND FILE / LIME PLATE / HANDFEILE / LIMA PIATTA / LIMA PARALELA / РУЧНОЙ НАПИЛЬНИК**



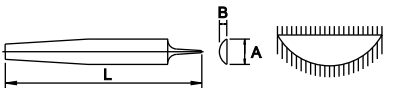
| COD.         | MAT.  |                      | L (mm) | A (mm) | B (mm) |     |
|--------------|-------|----------------------|--------|--------|--------|-----|
| <b>71607</b> | Cu-Be | ENTREFINA / MEDIUM / | 200    | 20     | 6      | 350 |
| <b>71608</b> |       | DEMI-DOUCE           | 300    | 31     | 8      | 750 |



| COD.         | MAT.  |                                    | L (mm) | A (mm) | B (mm) |      |
|--------------|-------|------------------------------------|--------|--------|--------|------|
| <b>72237</b> | Cu-Be | ENTREFINA / MEDIUM /<br>DEMI-DOUCE | 500    | 41     | 12     | 1800 |



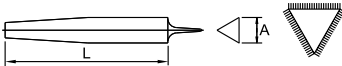
■ **LIMAS MEDIA CAÑA / HALF ROUND FILES / LIMES DEMI-RONDES / HALBRUND FEILEN / LIMA MEZZATONDA / LIMAS MEIA CANA / ПОЛУОУГЛЫЙ НАПИЛЬНИК**



| COD.         | MAT.  |                                    | L (mm) | A (mm) | B (mm) |     |
|--------------|-------|------------------------------------|--------|--------|--------|-----|
| <b>71603</b> | Cu-Be | ENTREFINA / MEDIUM /<br>DEMI-DOUCE | 200    | 19     | 10     | 450 |



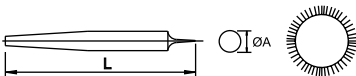
■ **LIMA TRIANGULAR / TRIANGULAR FILES / LIMES TRIANGULAIRES / DREIKANTFEILEN / LIMA TRIANGOLARE / LIMA TRIANGULAR / ТРЕУГОЛЬНЫЕ НАПИЛЬНИКИ**



| COD.         | MAT.  |                                    | L (mm) | A (mm) |     |
|--------------|-------|------------------------------------|--------|--------|-----|
| <b>35566</b> | Cu-Be | ENTREFINA / MEDIUM /<br>DEMI-DOUCE | 200    | 12     | 115 |




■ **LIMA REDONDA / ROUND FILE / LIME RONDE / RUND FEILE / LIME TONDE / LIMATÃO REDONDO / КРУГЛЫЙ НАПИЛЬНИК**




| COD.         | MAT.  |                                    | L (mm) | Ø A (mm) |     |
|--------------|-------|------------------------------------|--------|----------|-----|
| <b>71605</b> | Cu-Be | ENTREFINA / MEDIUM /<br>DEMI-DOUCE | 200    | 9        | 450 |





**MISCELÁNEA / MISCELLANEOUS / DIVERS / VERSCHIEDENE / MISCELLANEA / MISTURA / РАЗНОЕ**
**CINCEL / FLAT CHISEL / CISEAU / MAURERMEISSEL / SCALPELLI / ESCOPRO / ПЛОСКОЕ ЗУБИЛО**

| COD.  | MAT.  | COD.  | MAT.    | L (mm)   |  |
|-------|-------|-------|---------|----------|-----------------------------------------------------------------------------------|
| 70447 | Cu-Be | 71509 | Al-Bron | 150 x 22 | 240                                                                               |
| 70448 |       | 71510 |         | 200 x 22 | 310                                                                               |
| 35864 |       | 36029 |         | 220 x 23 | 430                                                                               |
| 79829 |       | 79832 |         | 225 x 20 | 300                                                                               |
| 70449 |       | 71511 |         | 250 x 24 | 500                                                                               |
| 72614 |       | 72622 |         | 300 x 24 | 600                                                                               |
| 70450 |       | 71512 |         | 300 x 25 | 700                                                                               |
| 79827 |       | 79830 |         | 305 x 13 | 210                                                                               |
| 70451 |       | 71513 |         | 400 x 27 | 1100                                                                              |
| 79828 |       | 79831 |         | 460 x 26 | 1200                                                                              |




**CINCEL EN PUNTA / CROSS CUTTING CHISEL / BURIN / DURCHSCHLAGMEISSEL / SCALPELLI A PUNTA / PONTEIRO / ВЫРУБНОЕ ЗУБИЛО**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-----------------------------------------------------------------------------------|
| 73778 | Cu-Be | 73779 | Al-Bron | 140    | 270                                                                               |
| 73780 |       | 73781 |         | 200    | 450                                                                               |
| 73782 |       | 73783 |         | 300    | 800                                                                               |



**CORTAFRÍOS CILÍNDRICO / CYLINDRICAL COLD CHISEL / BÉDANE CYLINDRIQUE / ZYLINDRISCHE MEISSEL / SCALPELLO CILINDRICO TAGLIO A FREDDO / ESCOPRO CILINDRICO / ЦИЛИНДРИЧЕСКОЕ ЗУБИЛО**

| COD.  | MAT.  | COD.  | MAT.    | L (mm)   |  |  |
|-------|-------|-------|---------|----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 73788 | Cu-Be | 73789 | Al-Bron | 14 x 160 | 14                                                                                  | 175                                                                                  |
| 73790 |       | 73791 |         | 16 x 160 | 16                                                                                  | 230                                                                                  |
| 73792 |       | 73793 |         | 18 x 160 | 18                                                                                  | 280                                                                                  |
| 73794 |       | 73795 |         | 18 x 200 | 18                                                                                  | 370                                                                                  |
| 73796 |       | 73797 |         | 20 x 200 | 20                                                                                  | 470                                                                                  |
| 73798 |       | 73799 |         | 24 x 250 | 24                                                                                  | 800                                                                                  |
| 73800 |       | 73801 |         | 24 x 300 | 24                                                                                  | 1000                                                                                 |
| 73802 |       | 73803 |         | 25 x 300 | 25                                                                                  | 1250                                                                                 |
| 73804 |       | 73805 |         | 25 x 400 | 25                                                                                  | 1400                                                                                 |
| 73806 |       | 73807 |         | 25 x 500 | 25                                                                                  | 1800                                                                                 |
| 73808 |       | 73809 |         | 30 x 500 | 30                                                                                  | 2650                                                                                 |


**CORTAFRÍOS HEXAGONAL / HEXAGONAL COLD CHISEL / BÉDANE HÉXAGONALE / HEX MEISEL / SCALPELLO ESAGONALE TAGLIO A FREDDO / ESCOPRO HEXAGONAL / ШЕСТИГРАННОЕ ЗУБИЛО**

| COD.  | MAT.  | COD.  | MAT.    | L (mm)   |  |  |
|-------|-------|-------|---------|----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 73811 | Cu-Be | 73812 | Al-Bron | 12 x 150 | 10                                                                                  | 100                                                                                  |
| 73813 |       | 73814 |         | 16 x 200 | 14                                                                                  | 250                                                                                  |
| 73815 |       | 73816 |         | 18 x 160 | 16                                                                                  | 260                                                                                  |
| 73817 |       | 73818 |         | 16 x 250 | 14                                                                                  | 320                                                                                  |
| 73819 |       | 73820 |         | 19 x 300 | 17                                                                                  | 700                                                                                  |
| 73821 |       | 73822 |         | 19 x 350 | 17                                                                                  | 900                                                                                  |
| 73823 |       | 73824 |         | 24 x 600 | 22                                                                                  | 1800                                                                                 |
| 73825 |       | 73826 |         | 28 x 300 | 25                                                                                  | 1100                                                                                 |
| 73827 |       | 73828 |         | 35 x 500 | 30                                                                                  | 2700                                                                                 |


**GRANETE / CENTRE PUNCH / POINTEAU / KÖRNER / PUNTE DA CENTRO / PUNÇÃO DE BICO / МЕТЧИК**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-------------------------------------------------------------------------------------|
| 71514 | Cu-Be | 71516 | Al-Bron | 100    | 60                                                                                  |
| 71515 |       | 71517 |         | 150    | 80                                                                                  |



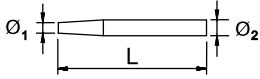
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**ANTICHISPA**  
**NON-SPARKING**  
**ANTIDÉFLAGRANT**  
**FUNKENFREI**  
**ANTISCINTILLA**  
**ANTI-DEFLAGRANTE**  
**ИСКРОБЕЗОПАСНЫЙ**

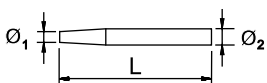


■ **BOTADORES CÓNICOS / TAPER PUNCHES / CHASSE CLOU / KÖRNER / PUNZONE CONICO / PUNÇÕES CÓNICOS / КОНИЧЕСКИЕ ПРОБЕЙНИКИ**

■ **MM**



| COD.  | MAT.  | COD.  | MAT.    | Ø 1 (mm) | Ø 2 (mm) | L (mm) |      |
|-------|-------|-------|---------|----------|----------|--------|------|
| 70426 |       | 71472 |         | 2        |          |        |      |
| 70427 |       | 71473 |         | 3        |          |        |      |
| 70428 |       | 71474 |         | 4        | 10       |        | 60   |
| 70429 |       | 71475 |         | 5        |          |        |      |
| 70430 |       | 71476 |         | 6        |          |        |      |
| 70431 |       | 71477 |         | 7        |          |        |      |
| 70432 |       | 71478 |         | 8        | 12       | 150    | 70   |
| 70433 |       | 71479 |         | 9        |          |        |      |
| 70434 |       | 71480 |         | 10       | 14       |        | 200  |
| 70435 |       | 71481 |         | 11       |          |        |      |
| 70436 |       | 71482 |         | 12       | 16       |        |      |
| 70437 |       | 71483 |         | 13       |          |        |      |
| 70438 |       | 71484 |         | 14       | 18       |        | 300  |
| 70439 |       | 71485 |         | 15       |          |        |      |
| 70440 |       | 71486 |         | 16       | 20       | 200    | 400  |
| 70441 | Cu-Be | 71487 | Al-Bron | 17       |          |        |      |
| 70442 |       | 71488 |         | 18       | 22       |        | 500  |
| 70443 |       | 71489 |         | 19       |          |        |      |
| 70444 |       | 71490 |         | 20       | 24       |        | 800  |
| 70445 |       | 71491 |         | 21       |          |        |      |
| 70446 |       | 71492 |         | 22       |          | 250    | 900  |
| 76099 |       | 76100 |         | 23       | 26       |        | 950  |
| 76101 |       | 76102 |         |          |          |        | 1100 |
| 35756 |       | 76065 |         | 24       | 28       |        | 1200 |
| 36542 |       | 36543 |         |          |          | 180    | 1100 |
| 76103 |       | 76104 |         | 25       | 30       |        | 1500 |
| 76105 |       | 76106 |         |          | 26       |        | 1200 |
| 35757 |       | 76069 |         |          |          |        | 1300 |
| 76107 |       | 76108 |         | 27       | 30       | 250    | 1400 |
| 35758 |       | 76071 |         | 28       | 32       |        | 1550 |
| 35759 |       | 76098 |         | 30       | 34       |        | 1800 |
| 36544 |       | 36545 |         | 35       | 40       | 200    | 2000 |



| COD.  | MAT.                   | Ø 1 (mm) | Ø 2 (mm) | L (mm) |     |
|-------|------------------------|----------|----------|--------|-----|
| 36062 |                        | 2        |          |        |     |
| 36065 |                        | 3        |          |        |     |
| 36078 |                        | 4        | 10       |        | 100 |
| 36079 | Latón / Brass / Laiton | 5        |          | 150    |     |
| 36081 |                        | 6        |          |        | 130 |
| 36088 |                        | 8        | 12       |        | 170 |
| 36089 |                        | 10       | 14       |        | 250 |
| 36182 |                        | 12       | 16       |        | 300 |

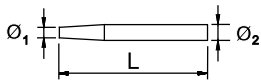


**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronz / Сплав Аллюминий Бронза  
**Lat/Brass** Latón / Brass / Laiton / Messing / Ottone / Latao / БРОНЗА

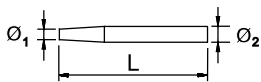
Si no encuentra el artículo que necesita, consúltenos en [consulta@egamaster.com](mailto:consulta@egamaster.com) o en [www.egamaster.com](http://www.egamaster.com)  
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 Si vous ne trouvez pas l'article que vous desirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)

**EGAMaster**  
 ART IN INNOVATION

1155

**INCH**


| COD.  | MAT.  | COD.  | MAT.    | Ø 1 (inch) | Ø 2 (inch) | L (mm) | g    |
|-------|-------|-------|---------|------------|------------|--------|------|
| 73583 |       | 73572 |         | 1/8        |            |        |      |
| 73584 |       | 73573 |         | 3/16       | 3/8        |        |      |
| 73585 |       | 73574 |         | 1/4        |            | 150    | 950  |
| 73586 |       | 73575 |         | 5/16       | 7/16       |        |      |
| 73587 | Cu-Be | 73576 | Al-Bron | 3/8        | 17/32      |        |      |
| 73588 |       | 73577 |         | 1/2        | 19/32      | 200    |      |
| 73589 |       | 73578 |         | 5/8        | 3/4        |        |      |
| 73590 |       | 73579 |         | 3/4        | 15/16      | 250    | 1000 |
| 73591 |       | 73580 |         | 7/8        | 1          |        |      |


**BOTADORES CILÍNDRICOS / PIN PUNCHES / CHASSES GOUPILLES / DURCHSCHLÄGER / PUNZONE CILINDRICO / PUNÇÕES CILÍNDRICOS / ПРОБОЙНИКИ**


| COD.  | MAT.  | COD.  | MAT.    | Ø 1 (mm) | Ø 2 (mm) | L (mm) | g   |
|-------|-------|-------|---------|----------|----------|--------|-----|
| 71518 |       | 71527 |         | 1,4      | 3        |        | 5   |
| 71519 |       | 71528 |         | 1,8      | 4        |        |     |
| 36183 |       | 36208 |         | 2        | 5        | 110    | 10  |
| 71520 |       | 71529 |         | 2,4      |          |        |     |
| 71521 |       | 71530 |         | 2,8      | 6        |        | 19  |
| 71522 |       | 71531 |         | 3        |          | 120    | 38  |
| 71523 |       | 71532 |         | 4        | 8        | 130    | 65  |
| 71524 | Cu-Be | 71533 | Al-Bron | 5        | 10       | 140    | 95  |
| 71525 |       | 71534 |         | 6        | 12       |        | 175 |
| 71526 |       | 71535 |         | 8        | 16       | 150    | 210 |
| 36546 |       | 36547 |         | 10       | 14       |        | 175 |
| 36211 |       | 36212 |         | 12       | 18       | 160    | 270 |
| 36213 |       | 36214 |         |          |          | 200    | 370 |
| 36548 |       | 36549 |         |          |          |        |     |
| 72637 |       | 76109 |         |          |          |        |     |



| COD.  | MAT.                   | Ø 1 (mm) | Ø 2 (mm) | L (mm) | g   |
|-------|------------------------|----------|----------|--------|-----|
| 36186 |                        | 2        |          | 110    | 20  |
| 36187 |                        | 3        | 10       | 120    | 60  |
| 36188 |                        | 4        |          | 130    | 150 |
| 36189 | Latón / Brass / Laiton | 5        | 12       | 140    | 200 |
| 36194 |                        | 6        |          | 150    | 230 |
| 36195 |                        | 8        | 14       |        | 250 |
| 36196 |                        | 10       |          |        |     |
| 36197 |                        | 12       |          |        |     |

**PUNTERO / DIAMOND POINT CHISEL / BURIN / KÖRNER / PUNTE / PUNÇAO / ПРОБОЙНИК С АЛМАЗНЫМ НАКОНЕЧНИКОМ**

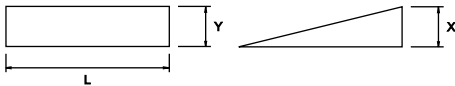
| COD.  | MAT.  | COD.  | MAT.    | L (mm) | AF mm | g    |
|-------|-------|-------|---------|--------|-------|------|
| 71544 |       | 71548 |         | 200    | 16    | 300  |
| 71545 |       | 71549 |         | 250    | 17    | 500  |
| 71546 | Cu-Be | 71550 | Al-Bron | 300    | 19    | 600  |
| 71547 |       | 71551 |         | 400    | 20    | 1000 |





**PUNTERO ESPECIAL / CAULKING TOOL / BURIN SPECIAL / KÖRNER LANG / PUNTE SPECIALI / PUNÇÃO ESPECIAL / МОТИПОВКА**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | AF mm | Kg  |
|-------|-------|-------|---------|--------|-------|-----|
| 71552 | Cu-Be | 71557 | Al-Bron | 1000   | 32    | 6,5 |
| 71553 |       | 71558 |         | 1200   | 36    | 9,5 |
| 71554 |       | 71559 |         | 1500   |       | 13  |
| 71555 |       | 71560 |         | 1000   |       | 16  |
| 71556 |       | 71561 |         | 1200   |       | 50  |


**CUÑA / WEDGE / COIN / KEIL / CUNEO / CUNHA / КЛИН**


| COD.  | MAT.  | COD.  | MAT.    | L (mm) | Y    | X    | g    |
|-------|-------|-------|---------|--------|------|------|------|
| 78967 | Cu-Be | 78968 | Al-Bron | 80     | 13   | 6-0  | 50   |
| 70452 |       | 71493 |         | 100    | 50   | 10-0 | 200  |
| 70453 |       | 71494 |         | 135    |      | 18-0 | 500  |
| 70454 |       | 71495 |         | 150    |      | 8-0  | 100  |
| 70455 |       | 71496 |         |        | 13-0 | 200  |      |
| 70456 |       | 71497 |         |        | 8-0  | 400  |      |
| 70457 |       | 71498 |         | 180    | 13-0 | 300  |      |
| 70458 |       | 71499 |         |        | 6-0  | 700  |      |
| 70459 |       | 71500 |         |        | 13-0 |      |      |
| 70460 |       | 71501 |         | 50     | 19-0 |      | 500  |
| 70461 |       | 71502 |         | 200    | 20   | 30-0 | 600  |
| 70377 |       | 36216 |         |        | 30   | 20-0 | 800  |
| 70462 |       | 71503 |         |        | 40   | 30-0 | 1300 |
| 70463 |       | 71504 |         | 230    | 50   | 12-0 | 500  |
| 70464 |       | 71505 |         |        | 20-0 | 800  |      |
| 70465 |       | 71506 |         |        | 30-0 | 1300 |      |
| 70466 |       | 71507 |         | 300    | 40   | 40-0 | 2500 |
| 70467 |       | 71508 |         |        | 50   |      |      |


**PALANCA / PINCHBAR / PINCE À TALON / BRECHSTANGE / LEVA / AVALANCA / МОИТПОВКА**

| COD.  | MAT.  | COD.  | MAT.    | L (mm)    | Kg  |
|-------|-------|-------|---------|-----------|-----|
| 70468 | Cu-Be | 71570 | Al-Bron | 19 x 500  | 1,3 |
| 70469 |       | 71571 |         | 23 x 800  | 2,9 |
| 70470 |       | 71572 |         | 28 x 1000 | 4,5 |



| COD.  | MAT.  | COD.  | MAT.    | L (mm) | O.D. mm | Kg   |     |
|-------|-------|-------|---------|--------|---------|------|-----|
| 73833 | Cu-Be | 73834 | Al-Bron | 500    | 15      | 0,7  |     |
| 73835 |       | 73836 |         |        | 19      | 1,0  |     |
| 73837 |       | 73838 |         |        | 20      | 1,2  |     |
| 73839 |       | 73840 |         |        | 25      | 1,8  |     |
| 73841 |       | 73842 |         |        | 30      | 2,7  |     |
| 73843 |       | 73844 |         |        | 600     | 25   | 2,2 |
| 73845 |       | 73846 |         | 30     |         | 3,3  |     |
| 73847 |       | 73848 |         | 23     |         | 2,1  |     |
| 73849 |       | 73850 |         | 800    | 25      | 3,0  |     |
| 73851 |       | 73852 |         |        | 850     | 30   | 4,5 |
| 73853 |       | 73854 |         |        |         | 1000 | 25  |
| 73855 |       | 73856 |         | 28     |         |      | 4,5 |
| 73857 |       | 73858 |         | 30     | 5,5     |      |     |
| 73859 |       | 73860 |         | 1200   | 25      | 4,5  |     |
| 73861 |       | 73862 |         |        | 30      | 6,5  |     |
| 73863 |       | 73864 |         |        |         |      |     |



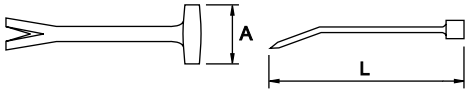
**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

# 37

**ANTICHISPA  
NON-SPARKING  
ANTIDÉFLAGRANT  
FUNKENFREI  
ANTISCINTILLA  
ANTI-DEFLAGRANTE  
ИСКРОБЕЗОПАСНЫЙ**



| COD.  | MAT.  | COD.  | MAT.    | L (mm) | O.D. mm | Kg  |
|-------|-------|-------|---------|--------|---------|-----|
| 73865 | Cu-Be | 73866 | Al-Bron | 1500   | 30      | 8,5 |



| COD.  | MAT.  | COD.  | MAT.    | L (mm) | A (mm) | Kg  |
|-------|-------|-------|---------|--------|--------|-----|
| 76545 | Cu-Be | 76546 | Al-Bron | 230    | 70     | 0,5 |

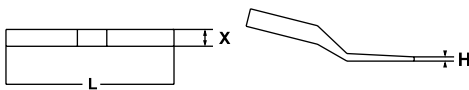


**■ BARRA DE DESECOFRAR / WRECKING BAR / PINCE MONSEIGNEUR / BRECHEISEN / APRICASSE CON LEVA CHIODI / PE DE CABRA / КРЮК**

| COD.  | MAT.  | COD.  | MAT.    | L (mm)   | Kg  |
|-------|-------|-------|---------|----------|-----|
| 71573 | Cu-Be | 71577 | Al-Bron | 16 x 460 | 1,3 |
| 71574 |       | 71578 |         | 19 x 600 | 2,4 |
| 71575 |       | 71579 |         | 19 x 750 | 3,0 |
| 71576 |       | 71580 |         | 19 x 900 | 3,3 |



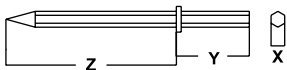
**■ HERRAMIENTA DE REMATAR / CAULKING TOOL / CLÉ DE FINITION / ABDICHTEN-WERKZEUG / UTENSILI DA SVENDERE / FERRAMENTA DE CALAFETAR / МОНТИРОВКА**



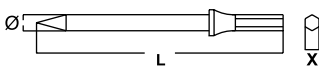
| COD.  | MAT.  | COD.  | MAT.    | L (mm) | X  | H (mm) | g   |
|-------|-------|-------|---------|--------|----|--------|-----|
| 72601 | Cu-Be | 72602 | Al-Bron | 200    | 20 | 5      | 450 |
| 72603 |       | 72604 |         | 250    |    | 8      | 600 |



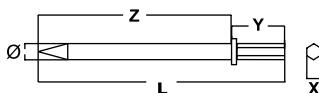
**■ CINCELES NEUMÁTICOS / PNEUMATIC CHISELS / BURINS PNEUMATIQUES / PNEUMATISCHE MEISSEL / SCALPELLO PNEUMATICO / ESCOPROS PNEUMÁTICOS / ПНЕВМО ДОЛОТА**



| COD.  | MAT.  | COD.  | MAT.    | X  | Y   | Z   | g    |
|-------|-------|-------|---------|----|-----|-----|------|
| 72583 | Cu-Be | 72584 | Al-Bron | 28 | 150 | 350 | 3200 |



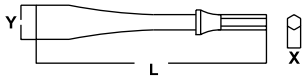
| COD.  | MAT.  | COD.  | MAT.    | L (mm) | X  | O.D. mm | g   |
|-------|-------|-------|---------|--------|----|---------|-----|
| 72585 | Cu-Be | 72586 | Al-Bron | 125    | 10 | 12      | 120 |
| 72587 |       | 72588 |         | 175    |    |         | 170 |



| COD.  | MAT.  | COD.  | MAT.    | L (mm) | X  | Y  | Z   | O.D. mm | g    |
|-------|-------|-------|---------|--------|----|----|-----|---------|------|
| 35790 | Cu-Be | 35791 | Al-Bron | 435    | 22 | 85 | 350 | 25      | 1700 |



**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза



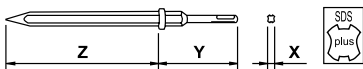
| COD.         | MAT.  | COD.         | MAT.    | L (mm) | X  | Y  |     |
|--------------|-------|--------------|---------|--------|----|----|-----|
| <b>72589</b> | Cu-Be | <b>72590</b> | Al-Bron | 125    | 10 | 20 | 150 |
| <b>72591</b> |       | <b>72592</b> |         | 175    |    |    | 190 |



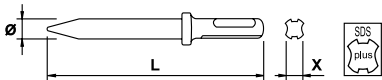
| COD.         | MAT.  | COD.         | MAT.    | L (mm) | X  | Y  |     |
|--------------|-------|--------------|---------|--------|----|----|-----|
| <b>72593</b> | Cu-Be | <b>72594</b> | Al-Bron | 125    | 10 | 20 | 150 |
| <b>72595</b> |       | <b>72596</b> |         | 175    |    |    | 190 |



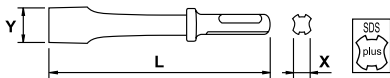
| COD.         | MAT.  | COD.         | MAT.    | L (mm) | X  | Y  |     |
|--------------|-------|--------------|---------|--------|----|----|-----|
| <b>72597</b> | Cu-Be | <b>72598</b> | Al-Bron | 125    | 10 | 20 | 150 |
| <b>72599</b> |       | <b>72600</b> |         | 175    |    |    | 190 |



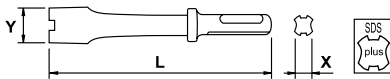
| COD.         | MAT.  | COD.         | MAT.    | X  | Y   | Z   |      |
|--------------|-------|--------------|---------|----|-----|-----|------|
| <b>35570</b> | Cu-Be | <b>35571</b> | Al-Bron | 10 | 150 | 350 | 3200 |



| COD.         | MAT.  | COD.         | MAT.    | L (mm) | X  |    |     |
|--------------|-------|--------------|---------|--------|----|----|-----|
| <b>35572</b> | Cu-Be | <b>35573</b> | Al-Bron | 125    | 10 | 12 | 120 |
| <b>35574</b> |       | <b>35575</b> |         | 175    |    |    | 170 |

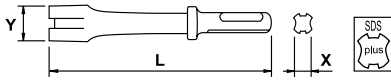


| COD.         | MAT.  | COD.         | MAT.    | L (mm) | X  | Y  |     |
|--------------|-------|--------------|---------|--------|----|----|-----|
| <b>35576</b> | Cu-Be | <b>35577</b> | Al-Bron | 125    | 10 | 20 | 150 |
| <b>35578</b> |       | <b>35579</b> |         | 175    |    |    | 190 |



| COD.         | MAT.  | COD.         | MAT.    | L (mm) | X  | Y  |     |
|--------------|-------|--------------|---------|--------|----|----|-----|
| <b>35580</b> | Cu-Be | <b>35581</b> | Al-Bron | 125    | 10 | 20 | 150 |
| <b>35582</b> |       | <b>35583</b> |         | 175    |    |    | 190 |





| COD.  | MAT.  | COD.  | MAT.    | L (mm) | X  | Y  | g   |
|-------|-------|-------|---------|--------|----|----|-----|
| 35584 | Cu-Be | 35585 | Al-Bron | 125    | 10 | 20 | 150 |
| 35586 |       | 35587 |         | 175    |    |    | 190 |



**TRAZADOR / MARKING TOOL / POINTE À TRACER / MARKIERUNGSWERKZEUG / TRACCIATORE / TRAÇADOR / МАРКИРОВЩИКИ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | O.D. mm | g    |
|-------|-------|-------|---------|--------|---------|------|
| 74217 | Cu-Be | 74218 | Al-Bron | 400    | 12      | 500  |
| 74219 |       | 74220 |         | 600    | 16      | 1000 |



| COD.  | MAT.  | COD.  | MAT.    | L (mm) | O.D. mm | g  |
|-------|-------|-------|---------|--------|---------|----|
| 72216 | Cu-Be | 72217 | Al-Bron | 190    | 4       | 15 |
| 74222 |       | 74223 |         | 250    |         | 20 |



**PUNZÓN / AWL / POINÇON / AHLE / PUNZONE / PUNÇÃO / ШИЛО**

| COD.  | MAT.  | COD.  | MAT.    | L (mm)    | O.D. mm | g  |
|-------|-------|-------|---------|-----------|---------|----|
| 74225 | Cu-Be | 74226 | Al-Bron | 100 x 180 | 3       | 50 |



**BMAT**

| COD.  | MAT.                   | L (mm)    | O.D. mm | g   |
|-------|------------------------|-----------|---------|-----|
| 36094 | Latón / Brass / Laiton | 350 X 450 | 9       | 200 |



**BMAT**

**GANCHOS AJUSTABLES PARA BIDONES / ADJUSTABLE BARREL HOOKS / CROCHETS LÉVE BIDONS / VERSTELBARE FASSHAKEN / GANCIO REGOLABILE PER BIDONI / GANCHOS AJUSTÁVEIS PARA BIDONS / КРЮК ДЛЯ БОЧЕК РЕГУЛИРУЕМЫЙ**

| COD.  | MAT.  | COD.  | MAT.    | MAX mm | CAP. (kg) | g    |
|-------|-------|-------|---------|--------|-----------|------|
| 74247 | Cu-Be | 74248 | Al-Bron | 1060   | 700       | 3200 |



**RASQUETA / LONG BLADE SCRAPER / LONGUE RACLETTE / FLACHSCHABER / RASCHIETTO / RASCADOR / ШИРОКАЯ ЛОПАТКА**

| COD.  | MAT.  | COD.  | MAT.    | L x W (mm) | Kg  |
|-------|-------|-------|---------|------------|-----|
| 71562 |       | 71566 |         | 60 x 185   | 1,2 |
| 71563 | Cu-Be | 71567 | Al-Bron | 100 x 225  | 1,5 |
| 71564 |       | 71568 |         | 150 x 180  | 2,6 |
| 71565 |       | 71569 |         | 125 x 225  | 1,2 |




| COD.  | MAT.  | COD.  | MAT.    | L (mm)   | g   |
|-------|-------|-------|---------|----------|-----|
| 73759 | Cu-Be | 73760 | Al-Bron | 95 x 480 | 650 |




**BMAT**

| COD.  | MAT.  | COD.  | MAT.    | L (mm)   | g   |
|-------|-------|-------|---------|----------|-----|
| 72155 | Cu-Be | 72156 | Al-Bron | 50 x 900 | 650 |




| COD.  | MAT.  | COD.  | MAT.    | L (mm)   |  |
|-------|-------|-------|---------|----------|-----------------------------------------------------------------------------------|
| 73744 | Cu-Be | 73745 | Al-Bron | 50 x 900 | 650                                                                               |




| COD.  | MAT.  | COD.  | MAT.    | L (mm)    |  |
|-------|-------|-------|---------|-----------|-----------------------------------------------------------------------------------|
| 73750 | Cu-Be | 73751 | Al-Bron | 50 x 695  | 900                                                                               |
| 73752 |       | 73753 |         | 75 x 710  | 1100                                                                              |
| 73754 |       | 73755 |         | 100 x 710 | 1200                                                                              |
| 73756 |       | 73757 |         | 150 x 750 | 2000                                                                              |




| COD.  | MAT.  | COD.  | MAT.    | L (mm)   |  |
|-------|-------|-------|---------|----------|-----------------------------------------------------------------------------------|
| 72167 | Cu-Be | 72168 | Al-Bron | 40 x 270 | 350                                                                               |




| COD.  | MAT.  | COD.  | MAT.    | L (mm)   |  |
|-------|-------|-------|---------|----------|-----------------------------------------------------------------------------------|
| 73747 | Cu-Be | 73749 | Al-Bron | 48 x 300 | 400                                                                               |




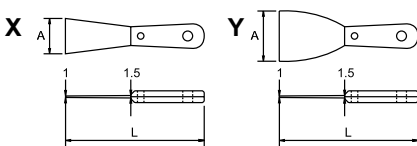
| COD.  | MAT.  | COD.  | MAT.    | L (mm)   |  |
|-------|-------|-------|---------|----------|-----------------------------------------------------------------------------------|
| 73762 | Cu-Be | 73763 | Al-Bron | 75 x 600 | 650                                                                               |



**RASQUETA CURVA / ARCHED SCRAPER / GRATTOIR COURBÉ / SPACHTEL FÜR GEBOGEN FLÄCHEN / RASPE CURVE / RASPADOR CURVO / ИЗОГНУТЫЙ СКРЕБОК**

| COD.  | MAT.  | COD.  | MAT.    | L (mm)    |  |
|-------|-------|-------|---------|-----------|------------------------------------------------------------------------------------|
| 73765 | Cu-Be | 73766 | Al-Bron | 50 x 190  | 400                                                                                |
| 73767 |       | 73768 |         | 100 x 210 | 650                                                                                |
| 73769 |       | 73770 |         | 150 x 220 | 800                                                                                |



**RASQUETA PLANA / FLAT SCRAPER / GRATTOIR PLAT / FLACHSCHABER / RASCHIETTO PIATTO / RASPADOR PLANO / ЛОСКИЙ СКРЕБОК**

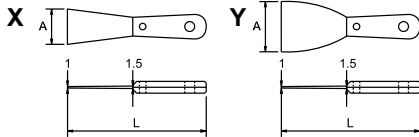
| COD.  | MAT.  | COD.  | MAT.    | L (mm)   |  |
|-------|-------|-------|---------|----------|-------------------------------------------------------------------------------------|
| 72157 | Cu-Be | 72162 | Al-Bron | 30 x 200 | 300                                                                                 |
| 72158 |       | 72163 |         | 30 x 300 | 425                                                                                 |
| 72159 |       | 72164 |         | 35 x 350 | 550                                                                                 |
| 72160 |       | 72165 |         | 50 x 350 | 900                                                                                 |
| 72161 |       | 72166 |         | 60 x 400 | 1400                                                                                |



**ESPÁTULA / SCRAPER / SPATULE / SPACHTEL / SPATOLA / ESPATULA / СКРЕБОК**


| COD.  | MAT.  | COD.  | MAT.    | Mod. | A (mm) | L (mm) |  |
|-------|-------|-------|---------|------|--------|--------|---------------------------------------------------------------------------------------|
| 70471 | Cu-Be | 71621 | Al-Bron | X    | 25     | 200    | 85                                                                                    |
| 70472 |       | 71622 |         |      | 30     |        | 95                                                                                    |
| 70473 |       | 71623 |         |      | 40     |        | 105                                                                                   |
| 70474 |       | 71624 |         |      | 50     |        | 115                                                                                   |
| 70475 |       | 71625 |         |      | 60     |        | 115                                                                                   |
| 79834 |       | 79835 |         |      | 140    |        | 190                                                                                   |




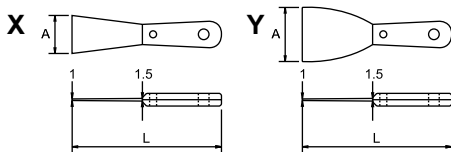
| COD.  | MAT.  | COD.  | MAT.    | Mod. | A (mm) | L (mm) |  |
|-------|-------|-------|---------|------|--------|--------|-------------------------------------------------------------------------------------|
| 70476 |       | 71626 |         |      | 75     |        | 135                                                                                 |
| 70477 | Cu-Be | 71627 | Al-Bron | Y    | 80     | 200    | 150                                                                                 |
| 70478 |       | 71628 |         |      | 100    |        |                                                                                     |




| COD.  | MAT.  | COD.  | MAT.    | Mod. | A (mm) | L (mm) |  |
|-------|-------|-------|---------|------|--------|--------|-------------------------------------------------------------------------------------|
| 36030 |       | 36031 |         |      | 25     |        | 100                                                                                 |
| 36032 |       | 36033 |         |      | 30     |        | 110                                                                                 |
| 36034 | Cu-Be | 36035 | Al-Bron | X    | 40     | 200    | 120                                                                                 |
| 36036 |       | 36037 |         |      | 50     |        | 130                                                                                 |
| 36038 |       | 36039 |         |      | 60     |        | 140                                                                                 |



| COD.  | MAT.  | COD.  | MAT.    | Mod. | A (mm) | L (mm) |  |
|-------|-------|-------|---------|------|--------|--------|-------------------------------------------------------------------------------------|
| 36040 |       | 36041 |         |      | 75     |        | 180                                                                                 |
| 36042 | Cu-Be | 36043 | Al-Bron | Y    | 80     | 200    | 190                                                                                 |
| 36044 |       | 36045 |         |      | 100    |        | 220                                                                                 |



| COD.  | MAT.                   | Mod. | A (mm) | L (mm) |  |
|-------|------------------------|------|--------|--------|---------------------------------------------------------------------------------------|
| 36092 |                        |      | 30     |        | 140                                                                                   |
| 36093 | Latón / Brass / Laiton | Y    | 60     | 200    | 160                                                                                   |



# EGGA Master

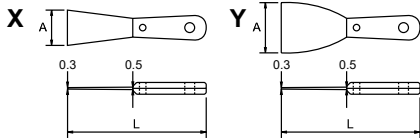
## ART IN INNOVATION

37

ANTICHISPA  
NON-SPARKING  
ANTIDÉFLAGRANT  
FUNKENFREI  
ANTISCINTILLA  
ANTI-DEFLAGRANTE  
ИСКРОБЕЗОПАСНЫЙ



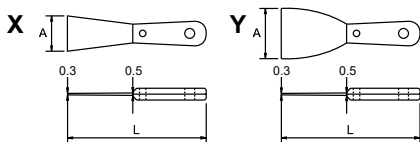
ESPÁTULA DE HOJA FLEXIBLE / FLEXIBLE BLADE SCRAPER / SPATULE À LÂME SOUPLE / SCHABER MIT FLEXIBLES BLATT / SPATOLA FLESSIBILE / ESPÁTULA DE FOLHA FLÉXIVEL / ШПАТЕЛЬ



| COD.  | MAT.  | Mod. | A (mm) | L (mm) |     |
|-------|-------|------|--------|--------|-----|
| 35730 | Cu-Be | X    | 25     | 200    | 85  |
| 35732 |       |      | 30     |        | 95  |
| 35734 |       |      | 40     |        | 105 |
| 35736 |       |      | 50     |        | 115 |
| 35738 |       |      | 60     |        | 115 |



| COD.  | MAT.  | Mod. | A (mm) | L (mm) |     |
|-------|-------|------|--------|--------|-----|
| 35740 | Cu-Be | Y    | 75     | 200    | 135 |
| 35742 |       |      | 80     |        | 150 |
| 35744 |       |      | 100    |        | 150 |



| COD.  | MAT.  | Mod. | A (mm) | L (mm) |     |
|-------|-------|------|--------|--------|-----|
| 36046 | Cu-Be | X    | 25     | 200    | 100 |
| 36048 |       |      | 30     |        | 110 |
| 36050 |       |      | 40     |        | 120 |
| 36052 |       |      | 50     |        | 130 |
| 36054 |       |      | 60     |        | 140 |



| COD.  | MAT.  | Mod. | A (mm) | L (mm) |     |
|-------|-------|------|--------|--------|-----|
| 36056 | Cu-Be | Y    | 75     | 200    | 180 |
| 36058 |       |      | 80     |        | 190 |
| 36060 |       |      | 100    |        | 220 |

BE SAFE...BE EFFICIENT

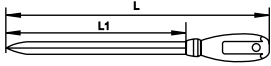
Cu-Be Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий

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If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
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EGAMaster  
ART IN INNOVATION

1163

**RASQUETA TRIANGULAR / TRIANGULAR SCRAPER / GRATTOIR TRIANGULAIRE / DREIECKIGER SPACHEL / RASCHIETTO TRIANGOLARE / RASCADOR TRIANGULAR / ТРЕУГОЛЬНЫЙ СКРЕБОК**



| COD.  | MAT.  | COD.  | MAT.    | L (mm) | L1 (mm) | g   |
|-------|-------|-------|---------|--------|---------|-----|
| 73422 | Cu-Be | 73399 | Al-Bron | 420    | 300     | 250 |



| COD.  | MAT.  | COD.  | MAT.    | L (mm)    | g    |
|-------|-------|-------|---------|-----------|------|
| 73775 | Cu-Be | 73776 | Al-Bron | 150 x 470 | 1000 |

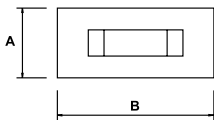


**PICO Y RASQUETA / SCRAPER PICK AND SCALER / PIQUE ET RACLETTE / REINIGUNGSWERKZEUG / PICCONE E RASCHIETTI / BICO E PÁ / СКАЛЫВАЮЩИЙ СКРЕБОК**

| COD.  | MAT.  | COD.  | MAT.    | L (mm)   | g    |
|-------|-------|-------|---------|----------|------|
| 73785 | Cu-Be | 73786 | Al-Bron | 75 x 450 | 1200 |



**LLANA / TROWEL / TRUELLE / KELLEN / FRATTONI / TALOCHA / ГЛАДИЛКА**



| COD.  | MAT.  | COD.  | MAT.    | A (mm) | B (mm) | g   |
|-------|-------|-------|---------|--------|--------|-----|
| 36070 | Cu-Be | 36071 | Al-Bron | 150    | 300    | 850 |



**CUBO / BUCKET / SEAU / EIMER / SECCHIO / BALDE / ВЕДРО**

| COD.  | MAT.  | L (mm) | Q.D. (mm) | g    |
|-------|-------|--------|-----------|------|
| 72486 | Cu-Be | 250    | 270       | 1500 |

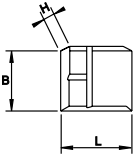



**CUCHARA RECOGEDORA DE AZÚCAR / SUGAR SCOOP / CUILLÈRE À SUCRE / SCHÖPFSCHAUFEL / RACCOGLITORE DI ZUCCHERI / COLHER PARA AÇUCAR / КОВШ**

| COD.  | MAT.  | L (mm) | Ø 1 (mm) | Ø 2 (mm) | H (mm) | H1 (mm) | g   |
|-------|-------|--------|----------|----------|--------|---------|-----|
| 72487 | Cu-Be | 150    | 70       | 45       | 40     | 85      | 100 |
| 72488 |       | 200    | 120      | 100      | 75     | 120     | 250 |
| 72489 |       | 270    | 140      | 120      | 80     | 150     | 350 |
| 74620 |       | 350    | 160      | 135      | 90     | 190     | 600 |








**RECOGEDOR / DUSTPAN / PELLE / HANDSCHAUFEL / RACCOGLITORE / RECIPIENTE / COBOK**


| COD.  | MAT.  | L (mm) | H (mm) | B (mm) |  |
|-------|-------|--------|--------|--------|-------------------------------------------------------------------------------------|
| 74621 | Cu-Be | 150    | 20     | 130    | 130                                                                                 |
| 74622 |       | 200    |        | 200    | 335                                                                                 |
| 74623 |       | 270    | 50     | 250    | 650                                                                                 |
| 72490 |       | 350    | 60     | 320    | 1000                                                                                |



**AGUJA / NEEDLE / AIGUILLE / NADEL / AGO / AGULHA / ИГЛА**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |  |
|-------|-------|-------|---------|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 73868 | Cu-Be | 73869 | Al-Bron | 250    | 6                                                                                 | 80                                                                                  |
| 73870 |       | 73871 |         | 300    | 8                                                                                 | 150                                                                                 |
| 73872 |       | 73873 |         | 400    | 7                                                                                 | 160                                                                                 |
| 73874 |       | 73875 |         | 500    | 10                                                                                | 320                                                                                 |




| COD.  | MAT.  | L (mm) |  |  |
|-------|-------|--------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 73877 | Cu-Be | 180    | 3                                                                                  | 12                                                                                   |



**EMBUDO / FUNNEL / ENTONNOIR / TRICHTER / IMBUTO / FUNIL / ВОРОНКА**

| COD.  | MAT.  | L (mm) |  |  |
|-------|-------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 74240 | Cu-Be | 130    | 160                                                                                 | 230                                                                                   |
| 74241 |       | 165    |                                                                                     | 250                                                                                   |




**BOMBA MANUAL DE ACEITE / PORTABLE OIL PUMP / BURETTE À HUILE / TRAGBARE ÖLPUMPE / POMPA DELL'OLIO MANULE / BOMBA MANUAL PARA ÓLEO / ПЕРЕНОСНОЙ МАСЛЯНЫЙ НАСОС**

| COD.  | MAT.  | L (mm) |  |  |
|-------|-------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 74243 | Cu-Be | 1100   | 165                                                                                 | 2300                                                                                  |


**CAZO / DIPPER / LOUCHE / TRICHTER KANNE / RECIPIENTE / CONCHA / КОВШ**


| COD.  | MAT.  | L (mm) |  |  |
|-------|-------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 74245 | Cu-Be | 350    | 85                                                                                  | 200                                                                                   |


**PLOMADA / LINER / PLOMB / SCHLAGSCHNURROLLER / GESSO TRACCIATORE / LINHAS DE TRAÇAR / ОТБЕЧ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |  |
|-------|-------|-------|---------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 72454 | Cu-Be | 72455 | Al-Bron | 60     | 50                                                                                  | 250                                                                                   |





**POLEA / CHAIN HOIST / PALAN / KETTENZUG / PARANCHI A MANO CON CATENA / DIFERENCIAL MANUAL / ЦЕПНАЯ ТАЛЬ**

| COD.  | MAT.  | COD.  | MAT.    | CAP. (kg) | CAP. (m) |  |
|-------|-------|-------|---------|-----------|----------|------------------------------------------------------------------------------------|
| 71638 | Cu-Be | 71642 | Al-Bron | 500       | 3        | 14                                                                                 |
| 71639 |       | 71643 |         | 1000      |          |                                                                                    |
| 71640 |       | 71644 |         | 2000      |          |                                                                                    |
| 71641 |       | 71645 |         | 3000      |          |                                                                                    |
| 72141 |       | 72142 |         | 5000      |          |                                                                                    |

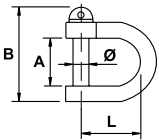



**CARRO PARA POLEA / TROLLEY FOR CHAIN HOIST / CHARIOT POUR PALAN / WAREN FÜR KETTENHUB / CARRELLO PER PULEGIA / CARRO PARA DIFERENCIAL / ТЕЛЕЖКА ДЛЯ ЦЕПНЫХ ТАЛЕЙ**

| COD.  | MAT.  | COD.  | MAT.    | CAP. (kg) |  |  |
|-------|-------|-------|---------|-----------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 76693 | Cu-Be | 76694 | Al-Bron | 500       | 68-94                                                                             | 13                                                                                 |
| 76695 |       | 76696 |         | 1000      | 68-100                                                                            | 16                                                                                 |
| 76697 |       | 76698 |         | 2000      | 94-124                                                                            | 22                                                                                 |
| 76699 |       | 76700 |         | 3000      | 116-140                                                                           | 24                                                                                 |



**GRILLETE / SHACKLE / MANILLE / SCHÄKEL / GRILLI / MANILHA / РЫМ**

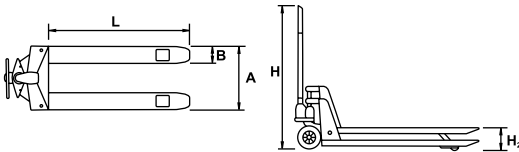


| COD.  | MAT.  | COD.  | MAT.    | CAP. (kg) | L (mm) | A (mm) | B (mm) | Ø (m) |  |
|-------|-------|-------|---------|-----------|--------|--------|--------|-------|---------------------------------------------------------------------------------------|
| 73429 | Cu-Be | 73424 | Al-Bron | 1200      | 40     | 30     | 60     | 10    | 170                                                                                   |

CE




**TRANSPALETA HIDRÁULICA / HYDRAULIC PALLET TRUCK / TRANSPALETTE HYDRAULIQUE / HYDRAULISCHER HUBWAGEN / TRASPALLET IDRAULICO / PORTA-PALETES HIDRÁULICO / ГИДРАВЛИЧЕСКАЯ ТЕЛЕЖКА**



| COD.  | MAT.  | COD.  | MAT.    | CAP. (kg) | L (mm) | A (mm) | B (mm) | H (mm) | H2 (mm) |  |
|-------|-------|-------|---------|-----------|--------|--------|--------|--------|---------|---------------------------------------------------------------------------------------|
| 76547 | Cu-Be | 76548 | Al-Bron | 2000      | 1190   | 550    | 160    | 1240   | 90-190  | 125                                                                                   |




■ **GATO / SCREW JACK / CRIQUE HYDRAULIQUE / HEBEBOCK / MARTINETTO IDRAULICO / MACACO HIDRÁULICO DE GARRAFA / ВИНТОВОЙ ДОМКРАТ**

| COD.         | MAT.    | CAP. (kg) | H (mm)  |  |
|--------------|---------|-----------|---------|------------------------------------------------------------------------------------|
| <b>76703</b> | Al-Bron | 3200      | 220-330 | 6,5                                                                                |
| <b>76705</b> |         | 5000      | 250-380 | 7                                                                                  |
| <b>76707</b> |         | 10000     | 280-430 | 11                                                                                 |
| <b>76709</b> |         | 16000     | 320-500 | 14                                                                                 |




■ **CEPILLOS / BRUSHES / BROSSES / STAHLBÜRSTEN / SPAZZOLE / ESCOVAS / ЩЕТКИ**

| COD.         | N.º filas / Rows / Rangées | L (mm) |  |
|--------------|----------------------------|--------|-----------------------------------------------------------------------------------|
| <b>70479</b> | 3                          | 280    | 170                                                                               |
| <b>70480</b> | 4                          |        | 200                                                                               |
| <b>70481</b> | 5                          |        | 220                                                                               |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**


Latón / Brass / Laiton

| COD.         | N.º filas / Rows / Rangées | L (mm) |  |
|--------------|----------------------------|--------|-----------------------------------------------------------------------------------|
| <b>71632</b> | 5                          | 180    | 200                                                                               |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**


Latón / Brass / Laiton

| COD.         | N.º filas / Rows / Rangées | L (mm) |  |
|--------------|----------------------------|--------|-------------------------------------------------------------------------------------|
| <b>72739</b> | 3                          | 350    | 150                                                                                 |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Latón / Brass / Laiton

| COD.         | N.º filas / Rows / Rangées | L (mm) |  |
|--------------|----------------------------|--------|-------------------------------------------------------------------------------------|
| <b>73419</b> | 6                          | 215    | 60                                                                                  |
| <b>72526</b> | 4                          | 290    | 170                                                                                 |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**




Latón / Brass / Laiton

| COD.         | N.º filas / Rows / Rangées | L (mm) |  |  |
|--------------|----------------------------|--------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>61581</b> | 4                          | 280    | 120                                                                                 | 3                                                                                    |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

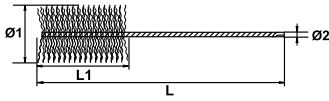
Latón / Brass / Laiton


| COD.         |  I.D.<br>mm |  O.D.<br>mm |  |
|--------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>71634</b> | 22,2                                                                                           | 150                                                                                            | 700                                                                                 |
| <b>73426</b> | 32                                                                                             | 200                                                                                            | 1000                                                                                |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Latón / Brass / Laiton



| COD.         | L (mm) | L1 (mm) | Ø 1 (mm) | Ø 2 (mm) |  |
|--------------|--------|---------|----------|----------|-------------------------------------------------------------------------------------|
| <b>79226</b> | 320    | 100     | 82       | 6,6      | 55                                                                                  |




**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Latón / Brass / Laiton


Cerdas antiestáticas / Antistatic bristles / Brosses antistatiques

**PICOS / PICKS / PIOCHES / MAURER HAMMERS / PICCONI / PICADEIRA / КИРКИ**

| COD.         | MAT.  | COD.         | MAT.    | L (mm) | H (mm) | B (mm) |  |
|--------------|-------|--------------|---------|--------|--------|--------|-------------------------------------------------------------------------------------|
| <b>72143</b> | Cu-Be | <b>72147</b> | Al-Bron | 1050   | 360    | 53     | 1,1                                                                                 |
| <b>72144</b> |       | <b>72148</b> |         |        | 385    | 55     | 1,7                                                                                 |
| <b>72145</b> |       | <b>72149</b> |         |        | 410    | 56     | 2,0                                                                                 |
| <b>72146</b> |       | <b>72150</b> |         |        | 470    | 56     | 2,5                                                                                 |



**HACHA / AXE / HACHE / AXTE / ASCIA / MACHADO / ТОПОР**

| COD.         | MAT.  | COD.         | MAT.    | L (mm) | H (mm) | B (mm) |  |
|--------------|-------|--------------|---------|--------|--------|--------|-------------------------------------------------------------------------------------|
| <b>72153</b> | Cu-Be | <b>72154</b> | Al-Bron | 340    | 200    | 82     | 950                                                                                 |

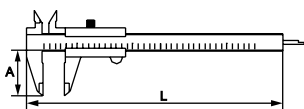





**HACHA BOMBERO / FIREMAN TYPE AXE / HACHE POUR POMPIERS / FEUERWEHRAXT / ASCIA TIPO PER POMPIERI / MACHADO DE BOMBEIRO / ТОПОР ПОЖАРНОГО ТИПА**

| COD.         | MAT.  | COD.         | MAT.    | L (mm) | A (mm) | B (mm) |  |
|--------------|-------|--------------|---------|--------|--------|--------|---------------------------------------------------------------------------------------|
| <b>72151</b> | Cu-Be | <b>72152</b> | Al-Bron | 340    | 145    | 98     | 1,3                                                                                   |



**CALIBRES / CALIPERS / PIEDS À COULISSE / WERKSTATTMESSSCHIEBERS / CALIBRI / PAQUÍMETROS / ШТАНГЕНЦИРКУЛИ**




| COD.         | MAT.  |  |  | A (mm) | L (mm) |  |
|--------------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|--------|---------------------------------------------------------------------------------------|
| <b>73730</b> | Cu-Be | 150                                                                                 | 0,02                                                                                | 40     | 235    | 350                                                                                   |



**MARTILLOS / HAMMERS / MARTEAUX / HÄMMER / MARTELLI / MARTELOS / МОЛОТКИ**

**MARTILLO DE BOLA / BALL PEIN HAMMER / MARTEAU À BOULE / SCHLOSSER HAMMER / MARTELLO A PALLA / MARTELO DE BOLA / МОЛОТОК С ШАРОВОЙ ГОЛОВКОЙ**

| COD.         | MAT.  | COD.         | MAT.    | L (mm) |  |
|--------------|-------|--------------|---------|--------|-------------------------------------------------------------------------------------|
| <b>70488</b> | Cu-Be | <b>71743</b> | Al-Bron | 280    | 200                                                                                 |
| <b>70489</b> |       | <b>71744</b> |         | 310    | 500                                                                                 |
| <b>70490</b> |       | <b>71745</b> |         | 340    | 700                                                                                 |
| <b>70491</b> |       | <b>71746</b> |         | 350    | 900                                                                                 |
| <b>36068</b> |       | <b>36069</b> |         | 350    | 1100                                                                                |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre en verre

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | g    |
|-------|-------|-------|---------|--------|------|
| 35933 | Cu-Be | 35937 | Al-Bron | 280    | 200  |
| 35934 |       | 35938 |         | 310    | 500  |
| 35935 |       | 35939 |         | 340    | 700  |
| 35936 |       | 35940 |         | 350    | 900  |
| 36226 |       | 36231 |         | 380    | 1100 |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer

| COD.  | MAT.                         | COD.  | MAT. | L (mm) | g    |
|-------|------------------------------|-------|------|--------|------|
| 72782 | Latón /<br>Brass /<br>Laiton | 72788 | Cu   | 280    | 230  |
| 72783 |                              | 72789 |      | 310    | 340  |
| 72784 |                              | 72790 |      | 340    | 450  |
| 72785 |                              | 72791 |      | 350    | 680  |
| 72786 |                              | 72792 |      | 380    | 910  |
| 72787 |                              | 72793 |      | 400    | 1130 |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre en verre

| COD.  | MAT.                         | COD.  | MAT. | L (mm) | g    |
|-------|------------------------------|-------|------|--------|------|
| 36001 | Latón /<br>Brass /<br>Laiton | 36007 | Cu   | 300    | 230  |
| 36002 |                              | 36008 |      | 300    | 340  |
| 36003 |                              | 36009 |      | 325    | 450  |
| 36004 |                              | 36010 |      | 350    | 680  |
| 36005 |                              | 36011 |      | 365    | 910  |
| 36006 |                              | 36012 |      | 365    | 1130 |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer

**MARTILLO MECÁNICO DE PEÑA / ENGINEER'S CROSS PEIN HAMMER / MARTEAU À GARNIR / MECCANICO CON PENNA / SCHLOSSER HAMMER / MECÂNICO DE PENA / МОЛОТОК С ШАРОВОЙ ГОЛОВКОЙ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | g   |
|-------|-------|-------|---------|--------|-----|
| 70492 | Cu-Be | 71747 | Al-Bron | 350    | 500 |
| 70493 |       | 71748 |         |        | 900 |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre en verre

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | g   |
|-------|-------|-------|---------|--------|-----|
| 35941 | Cu-Be | 35943 | Al-Bron | 380    | 500 |
| 35942 |       | 35944 |         |        | 900 |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer

**MARTILLO ALEMÁN / GERMAN TYPE MACHINIST'S HAMMER / MARTEAU DE MECANICIEN / SCHLOSSER HAMMER / MARTELLO TEDESCO / MARTELO TIPO ALEMÃO / СПЕСАРНЫЙ МОЛОТОК НЕМЕЦКОГО ТИПА**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | g   |
|-------|-------|-------|---------|--------|-----|
| 70494 | Cu-Be | 71749 | Al-Bron | 300    | 100 |
| 70495 |       | 71750 |         |        | 200 |
| 70496 |       | 71751 |         |        | 300 |
| 70497 |       | 71752 |         |        | 500 |
| 70498 |       | 71753 |         |        | 800 |



**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза  
**Lat/Brass** Latón / Brass / Laiton / Messing / Ottone / Latão / БРОНЗА  
**Cu** Cobre / Copper / Cuivre / Kupfer / Rame / Cobre / МЕДНАЯ

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | g    |
|-------|-------|-------|---------|--------|------|
| 70499 |       | 71754 |         | 340    | 1000 |
| 70500 | Cu-Be | 71755 | Al-Bron | 400    | 1500 |
| 70501 |       | 71756 |         |        | 2000 |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre en verre

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | g    |
|-------|-------|-------|---------|--------|------|
| 35945 |       | 35953 |         |        | 100  |
| 35946 |       | 35954 |         |        | 200  |
| 35947 |       | 35955 |         | 300    | 300  |
| 35948 |       | 35956 |         |        | 500  |
| 35949 | Cu-Be | 35957 | Al-Bron |        | 800  |
| 35950 |       | 35958 |         | 340    | 1000 |
| 35951 |       | 35959 |         | 380    | 1500 |
| 35952 |       | 35960 |         | 450    | 2000 |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer

**MACETA OCTOGONAL / SLEDGE Mallet / MASSETTE OCTOGONALE / SCHLAGHAMMER / MAZZETTA OTTOGONALE / MARRETA OCTOGONAL / КУВАЛДА**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | Kg  |
|-------|-------|-------|---------|--------|-----|
| 36215 |       | 36028 |         |        | 0,5 |
| 70502 |       | 71757 |         | 370    | 1,0 |
| 70503 |       | 71758 |         |        | 1,5 |
| 70504 |       | 71759 |         |        | 2,0 |
| 70505 |       | 71760 |         |        | 2,5 |
| 70506 | Cu-Be | 71761 | Al-Bron |        | 3,0 |
| 70507 |       | 71762 |         |        | 4,5 |
| 70508 |       | 71763 |         | 900    | 5   |
| 70509 |       | 71764 |         |        | 7   |
| 70510 |       | 71765 |         |        | 8,0 |
| 72213 |       | 72211 |         |        | 10  |
| 72975 |       | 72974 |         |        | 12  |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre en verre

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | Kg  |
|-------|-------|-------|---------|--------|-----|
| 36184 |       | 36185 |         |        | 0,5 |
| 35865 |       | 35882 |         | 370    | 1,0 |
| 35866 |       | 35883 |         |        | 1,5 |
| 35867 |       | 35884 |         |        | 2,0 |
| 35868 |       | 35885 |         |        | 2,5 |
| 35869 | Cu-Be | 35886 | Al-Bron |        | 3,0 |
| 35870 |       | 35887 |         |        | 4,5 |
| 35871 |       | 35888 |         | 900    | 5   |
| 35872 |       | 35889 |         |        | 6,8 |
| 35873 |       | 35890 |         |        | 8,0 |
| 35874 |       | 35891 |         |        | 10  |
| 35875 |       | 35892 |         |        | 12  |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | lb  |
|-------|-------|-------|---------|--------|-----|
| 79930 | Cu-Be | 79931 | Al-Bron | 380    | 2,0 |
| 35762 |       | 35763 |         |        | 3,0 |
| 35764 |       | 35765 |         | 5      |     |
| 35766 |       | 35767 |         | 7,5    |     |
| 35768 |       | 35769 |         | 10     |     |
| 79932 |       | 79933 |         | 12     |     |
| 35770 |       | 35771 |         | 15     |     |
| 35772 |       | 35773 |         | 18     |     |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre en verre

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | lb  |
|-------|-------|-------|---------|--------|-----|
| 36438 | Cu-Be | 36439 | Al-Bron | 380    | 2,0 |
| 35876 |       | 35893 |         |        | 3,0 |
| 35877 |       | 35894 |         | 5      |     |
| 35878 |       | 35895 |         | 7,5    |     |
| 35879 |       | 35896 |         | 10     |     |
| 36440 |       | 36441 |         | 12     |     |
| 35880 |       | 35897 |         | 15     |     |
| 35881 |       | 35898 |         | 18     |     |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer

| COD.  | MAT.                   | L (mm) | g     |
|-------|------------------------|--------|-------|
| 72740 | Latón / Brass / Laiton | 280    | 300   |
| 72741 |                        | 300    | 500   |
| 72742 |                        |        | 1000  |
| 72743 |                        | 370    | 1500  |
| 72744 |                        |        | 2000  |
| 72745 |                        |        | 3000  |
| 72746 |                        |        | 4000  |
| 72747 |                        | 900    | 5000  |
| 72748 |                        |        | 7000  |
| 72749 |                        |        | 10000 |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre en verre

| COD.  | MAT.                   | L (mm) | g    |
|-------|------------------------|--------|------|
| 35965 | Latón / Brass / Laiton | 310    | 300  |
| 35966 |                        | 500    |      |
| 35967 |                        | 320    | 1000 |
| 35968 |                        | 360    | 1500 |
| 35969 |                        | 380    | 2000 |
| 35970 |                        | 700    | 3000 |
| 35971 |                        | 800    | 4000 |
| 35972 |                        | 5000   |      |
| 35973 |                        | 7000   |      |
| 35974 |                        | 10000  |      |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer

**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Аллюминий Бронза  
**Lat/Brass** Latón / Brass / Laiton / Messing / Ottone / Latao / БРОНЗА  
**Cu** Cobre / Copper / Cuivre / Kupfer / Rame / Cobre / МЕДНАЯ

| COD.  | MAT. | L (mm) | g    |
|-------|------|--------|------|
| 72750 | Cu   | 300    | 450  |
| 72751 |      | 370    | 1000 |
| 72752 |      | 2500   |      |
| 72753 |      | 3600   |      |
| 72754 |      | 900    | 4500 |
| 72755 |      | 5400   |      |
| 72756 |      | 6400   |      |
| 72757 |      | 10000  |      |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre en verre

| COD.  | MAT. | L (mm) | g     |
|-------|------|--------|-------|
| 35975 | Cu   | 310    | 450   |
| 35976 |      | 320    | 1000  |
| 35977 |      | 380    | 2500  |
| 35978 |      | 700    | 3600  |
| 35979 |      | 4500   |       |
| 35980 |      | 800    | 5400  |
| 35981 |      | 6400   |       |
| 35982 |      | 900    | 10000 |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer

**MACETA CUADRADA TIPO ALEMÁN / GERMAN TYPE MALLET / MASSETTE TYPE ALLEMAND / FÄUSTEL / MAZZETA / MARRETA / КУВАЛДА КАМЕНЩИКА НЕМЕЦКОГО ТИПА**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | Kg  |
|-------|-------|-------|---------|--------|-----|
| 70511 | Cu-Be | 71766 | Al-Bron | 400    | 1,0 |
| 70512 |       | 71767 |         |        | 1,5 |
| 70513 |       | 71768 |         |        | 2,0 |
| 70514 |       | 71769 |         | 900    | 2,5 |
| 70515 |       | 71770 |         |        | 3,0 |
| 72098 |       | 72099 |         |        | 3,5 |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre en verre

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | Kg  |
|-------|-------|-------|---------|--------|-----|
| 35899 | Cu-Be | 35905 | Al-Bron | 380    | 1,0 |
| 35900 |       | 35906 |         |        | 1,5 |
| 35901 |       | 35907 |         |        | 2,0 |
| 35902 |       | 35908 |         | 900    | 2,5 |
| 35903 |       | 35909 |         |        | 3,0 |
| 35904 |       | 35910 |         |        | 3,5 |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer



**MAZA CUADRADA TIPO ALEMÁN / GERMAN TYPE STONING HAMMER / MASSE CARREE TYPE ALLEMAND / STEINSCHLAGHAMMER / MAZZA / MARRETA QUADRADA / МОЛОТОК КАМЕНЩИКА НЕМЕЦКОГО ТИПА**

| COD.  | MAT.                         | COD.  | MAT. | L (mm) | g    |
|-------|------------------------------|-------|------|--------|------|
| 72764 | Latón /<br>Brass /<br>Laiton | 72773 | Cu   | 350    | 500  |
| 72765 |                              | 72774 |      |        | 1000 |
| 72766 |                              | 72775 |      | 1500   |      |
| 72767 |                              | 72776 |      | 1800   |      |
| 72768 |                              | 72777 |      | 2000   |      |
| 72769 |                              | 72778 |      | 2700   |      |
| 72770 |                              | 72779 |      | 3600   |      |
| 72771 |                              | 72780 |      | 4000   |      |
| 72772 |                              | 72781 |      | 5000   |      |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre en verre

| COD.  | MAT.                         | COD.  | MAT. | L (mm) | g    |
|-------|------------------------------|-------|------|--------|------|
| 35983 | Latón /<br>Brass /<br>Laiton | 35992 | Cu   | 310    | 500  |
| 35984 |                              | 35993 |      |        | 1000 |
| 35985 |                              | 35994 |      | 1500   |      |
| 35986 |                              | 35995 |      | 1800   |      |
| 35987 |                              | 35996 |      | 2000   |      |
| 35988 |                              | 35997 |      | 2700   |      |
| 35989 |                              | 35998 |      | 3600   |      |
| 35990 |                              | 35999 |      | 4000   |      |
| 35991 |                              | 36000 |      | 5000   |      |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer

**MARTILLO DE CORTE / CUT-OFF HAMMER / MARTEAU DE COUPE / SCHNEIDHAMMER / MARTELO DE TAGLIO / MARTELO DE CORTE / ОТРУБНОЙ МОЛОТОК**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | Kg  |
|-------|-------|-------|---------|--------|-----|
| 70516 | Cu-Be | 71771 | Al-Bron | 400    | 1,3 |
| 70517 |       | 71772 |         |        | 2,1 |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre en verre

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | Kg  |
|-------|-------|-------|---------|--------|-----|
| 35961 | Cu-Be | 35963 | Al-Bron | 380    | 1,3 |
| 35962 |       | 35964 |         |        | 2,1 |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer


**PICO DE CALDERERO / CHIPPING HAMMER / PIOCHE DE CHAUDRONNIER / KESSELSTEINHAMMER / PICCONE DA BATTIRAME / PADEIRA DE CALDEIREIRO / МОЛОТОК КОЛУН**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) | g   |
|-------|-------|-------|---------|--------|-----|
| 70518 | Cu-Be | 71773 | Al-Bron | 280    | 200 |
| 70519 |       | 71774 |         |        | 400 |
| 70520 |       | 71775 |         | 600    |     |
| 70521 |       | 71776 |         | 900    |     |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre en verre


**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза  
**Lat/Brass** Latón / Brass / Laiton / Messing / Ottone / Latão / БРОНЗА  
**Cu** Cobre / Copper / Cuivre / Kupfer / Rame / Cobre / МЕДНАЯ

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-----------------------------------------------------------------------------------|
| 35911 | Cu-Be | 35915 | Al-Bron | 280    | 200                                                                               |
| 35912 |       | 35916 |         | 355    | 400                                                                               |
| 35913 |       | 35917 |         | 380    | 600                                                                               |
| 35914 |       | 35918 |         | 380    | 900                                                                               |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**


Madera de nogal / Hickory wood / Bois de noyer

**MARTILLO PARA PIEDRA / STONE WEDGE / MARTEAU PLAT / MAURERHAMMER / MARTELO PER PIETRE / MARTELO PARA PEDRA / МОЛОТОК КАМЕНЩИКА**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-----------------------------------------------------------------------------------|
| 70522 | Cu-Be | 71777 | Al-Bron | 400    | 1,0                                                                               |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**


Fibra de vidrio / Fiberglass / Fibre en verre

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-----------------------------------------------------------------------------------|
| 35919 | Cu-Be | 35920 | Al-Bron | 380    | 1,0                                                                               |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**


Madera de nogal / Hickory wood / Bois de noyer

**PALA MARTILLO / BRICKLAYER'S HAMMER / PELLE-MARTEAU / MAURERHAMMER / MARTELO PICCONE / PA-MARTELO / МОЛОТОК КИРПИЧНИКА**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-------------------------------------------------------------------------------------|
| 70523 | Cu-Be | 71778 | Al-Bron | 340    | 700                                                                                 |
| 70524 |       | 71779 |         | 340    | 800                                                                                 |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**


Fibra de vidrio / Fiberglass / Fibre en verre

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-------------------------------------------------------------------------------------|
| 35921 | Cu-Be | 35923 | Al-Bron | 340    | 700                                                                                 |
| 35922 |       | 35924 |         | 340    | 800                                                                                 |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer

**MARTILLO DE UÑA / CLAW HAMMER / MARTEAU DE CHARPENTIER / KLAUEN HAMMER / MARTELO CARPENTIERE / MARTELO DE UNHA / МОЛОТОК С ГВОЗДОДЕРОМ**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-------------------------------------------------------------------------------------|
| 70525 | Cu-Be | 71780 | Al-Bron | 325    | 500                                                                                 |
| 70526 |       | 71781 |         | 325    | 700                                                                                 |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre en verre

| COD.  | MAT.                   | L (mm) |  |
|-------|------------------------|--------|-------------------------------------------------------------------------------------|
| 36027 | Latón / Brass / Laiton | 275    | 500                                                                                 |


**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre en verre



| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-----------------------------------------------------------------------------------|
| 35925 | Cu-Be | 35927 | Al-Bron | 275    | 500                                                                               |
| 35926 |       | 35928 |         | 338    | 700                                                                               |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer



**MARTILLO DE NYLON / NYLON HAMMER / MARTEAU NYLON / PLASTIK HAMMER / MARTELLO DI NYLON / MARTELO DE NYLON / НЕЙЛОНОВЫЙ МОЛОТОК**

| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |  |
|-------|-------|-------|---------|--------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 70527 | Cu-Be | 71782 | Al-Bron | 340    | 50                                                                                | 800                                                                                |
| 73473 |       | 73393 |         | 400    | 55                                                                                | 1000                                                                               |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre en verre


| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |  |
|-------|-------|-------|---------|--------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 35929 | Cu-Be | 35931 | Al-Bron | 340    | 50                                                                                | 800                                                                                |
| 35930 |       | 35932 |         | 380    | 55                                                                                | 1000                                                                               |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer

**MARTILLO DE TESTEO / TESTING HAMMER / MARTEAU DE TEST / PRÜFHAMMER / MARTELLO DA TEST / MARTELO DE TESTES / ПРОВЕРОЧНЫЙ МОЛОТОК**


| COD.  | MAT.  | COD.  | MAT.    | L (mm) |  |
|-------|-------|-------|---------|--------|-------------------------------------------------------------------------------------|
| 75211 | Cu-Be | 75212 | Al-Bron | 380    | 125                                                                                 |
| 75214 |       | 75213 |         |        | 250                                                                                 |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer

**MAZA TIPO TAMBOR / DRUM TYPE STONING HAMMER / MASSETTE CONIQUE / LEICHHAMMER / MAZZA TIPO A TAMBURO / MAÇO DE COBRE / БОЧКООБРАЗНЫЙ МОЛОТОК**


| COD.  | MAT. | L (mm) |  |
|-------|------|--------|-------------------------------------------------------------------------------------|
| 72758 | Cu   | 280    | 300                                                                                 |
| 72759 |      | 310    | 570                                                                                 |
| 72760 |      | 340    | 810                                                                                 |
| 72761 |      | 350    | 1100                                                                                |
| 72762 |      | 400    | 1600                                                                                |
| 72763 |      | 400    | 2300                                                                                |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer

**MARTILLO DE PICAR / SCALING HAMMER / MASSETTE À PIQUER / SCHWEISSERHAMMER / MARTELLO PER SCANALARE / PICADEIRA COM CABO DE FIBRA DE VIDRO / СКАЛЫВАЮЩИЙ МОЛОТОК**


| COD.  | MAT.        | L (mm) |  |
|-------|-------------|--------|-------------------------------------------------------------------------------------|
| 72794 | Lat / Brass | 330    | 205                                                                                 |
| 72795 |             | 350    | 370                                                                                 |



**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre en verre


|                  |                                                                                                                                                      |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cu-Be</b>     | Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий                       |
| <b>Al-Bron</b>   | Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза |
| <b>Lat/Brass</b> | Latón / Brass / Laiton / Messing / Ottone / Latao / БРОНЗА                                                                                           |
| <b>Cu</b>        | Cobre / Copper / Cuivre / Kupfer / Rame / Cobre / МЕДНАЯ                                                                                             |

| COD.         | MAT.        | L (mm) |  |
|--------------|-------------|--------|-----------------------------------------------------------------------------------|
| <b>36013</b> | Lat / Brass | 330    | 205                                                                               |
| <b>36014</b> |             | 350    | 370                                                                               |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer



**MACETA DE LATÓN / BRASS MALLET / MASSETTE LAITON / MESSINGHAMMER / MAZZETTA DI OTTONE / MAÇO DE LATAO COM CABO DE FIBRA DE VIDRO / БРОНЗОВАЯ КУВАЛДА**

| COD.         | MAT.        | L (mm) |  |
|--------------|-------------|--------|-----------------------------------------------------------------------------------|
| <b>72796</b> | Lat / Brass | 900    | 4500                                                                              |
| <b>72797</b> |             |        | 5400                                                                              |
| <b>72798</b> |             |        | 7650                                                                              |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Fibra de vidrio / Fiberglass / Fibre en verre




| COD.         | MAT.        | L (mm) |  |
|--------------|-------------|--------|-----------------------------------------------------------------------------------|
| <b>36015</b> | Lat / Brass | 800    | 4500                                                                              |
| <b>36016</b> |             | 900    | 5400                                                                              |
| <b>36017</b> |             | 900    | 7650                                                                              |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Madera de nogal / Hickory wood / Bois de noyer



**MACETA DE COBRE / COPPER MALLET / MASSETTE CUIVRE / KUPFERHAMMER / MAZZETTA DI RAME / MARRETA DE COBRE COM CABO DE FIBRA DE VIDRO / МЕДНАЯ КУВАЛДА**

| COD.         | MAT. | L (mm) |  |
|--------------|------|--------|-------------------------------------------------------------------------------------|
| <b>72799</b> | Cu   | 350    | 1350                                                                                |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

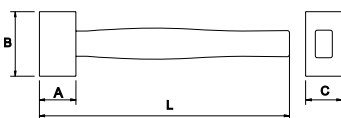
Fibra de vidrio / Fiberglass / Fibre en verre







| COD.         | MAT. | L (mm) |  |
|--------------|------|--------|-------------------------------------------------------------------------------------|
| <b>36018</b> | Cu   | 350    | 1350                                                                                |

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**


Madera de nogal / Hickory wood / Bois de noyer


**MACETA DE COBRE / SQUARE COPPER MALLET / MASSETTE CUIVRE / KUPFERHAMMER / MAZZETTA DI RAME / MARRETA DE COBRE / КВОДРАТНАЯ МЕДНАЯ КУВАЛДА**


| COD.         | MAT. |  | L (mm) | A (mm) | B (mm) | C (mm) |  |  |  |
|--------------|------|-------------------------------------------------------------------------------------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>69728</b> | Cu   | 30                                                                                  | 240    | 26     | 77     | 29     | 500                                                                                 | 6                                                                                   |                                                                                       |
| <b>69729</b> |      | 35                                                                                  | 260    | 36     | 88     | 39     | 1000                                                                                | 4                                                                                   | •                                                                                     |
| <b>69730</b> |      | 40                                                                                  | 280    | 41     | 99     | 43     | 1500                                                                                |                                                                                     |                                                                                       |



■ **YUNQUE / ANVIL BLOCK / ENCCLUME / AMBOSSBLOCK / INCUDINE / BIGORNA / БЛОК НАОВАЛЬНИ**

| COD.         | MAT.  | COD.         | MAT.    |  |
|--------------|-------|--------------|---------|-----------------------------------------------------------------------------------|
| <b>73734</b> |       | <b>73735</b> |         | 3                                                                                 |
| <b>73736</b> | Cu-Be | <b>73737</b> | Al-Bron | 5                                                                                 |
| <b>73738</b> |       | <b>73739</b> |         | 16                                                                                |



■ **MALETA DE ALUMINIO PORTAHERRAMIENTAS / ALUMINIUM TOOL CASE / MALLETTE PORTE-OUTILS / ALUMINIUMKOFFER ZUM ROLLEN / VALIGIA PORTAUTENSILI IN ALLUMINIO / MALA DE ALUMINIO PORTAFERRAMENTAS / АЛЮМИНИЕВЫЙ ИНСТРУМЕНТАЛЬНЫЙ КЕЙС**


| COD.         | L x W x H (mm)   |  |
|--------------|------------------|-----------------------------------------------------------------------------------|
| <b>51055</b> | 1350 x 356 x 114 | 7,5                                                                               |



**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                        |   |
|------------------------------------------------------------------------|---|
| Cerradura con llave / Key lock / Serrure avec clé                      | ● |
| Con cierres en zamak / Zinc alloy lockers / Casiers en alliage de zinc | ● |



| COD.         | L x W x H (mm)  |  |
|--------------|-----------------|-------------------------------------------------------------------------------------|
| <b>51056</b> | 520 x 330 x 152 | 3,6                                                                                 |





**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                        |   |
|------------------------------------------------------------------------|---|
| Cerradura con llave / Key lock / Serrure avec clé                      | ● |
| Con cierres en zamak / Zinc alloy lockers / Casiers en alliage de zinc | ● |



■ **KIT SEGURIDAD ATEX / ATEX SAFETY SETS / KIT DE SÉCURITÉ POUR ZONE ATEX / ATEX SAFETY KIT / KIT SICUREZZA ATEX / JOGO DE SEGURANÇA ATEX / ВЗРЫВОБЕЗОПАСНЫЙ НАБОР**

■ **8 PCS.**



| COD.         | PCS. |  | MAT.    | Medidas en / Sizes in / Mesures en |  |
|--------------|------|-------------------------------------------------------------------------------------|---------|------------------------------------|-------------------------------------------------------------------------------------|
| <b>74386</b> | 8    | 51054                                                                               | Cu-Be   | mm                                 | 7,5                                                                                 |
| <b>74387</b> |      |                                                                                     | Al-Bron |                                    |                                                                                     |

| PCS. | Cu-Be | Al-Bron | Descripción / Description / Description   |                 |
|------|-------|---------|-------------------------------------------|-----------------|
| 1    | 70474 | 71624   | Espátula / Scraper                        | 50 x 200 mm     |
|      | 70478 | 71628   |                                           | 100 x 200 mm    |
|      | 72157 | 72162   | Raspador plano / Flat scraper             | 30 x 200 mm     |
|      | 73422 | 73399   | Rasqueta triangular / Triangular scraper  | 360 mm          |
|      | 73785 | 73786   | Pico y rasqueta / Scraper pick and scaler | 75 x 450 mm     |
|      | 71562 | 71566   | Rasqueta / Scraper                        | 60 x 185 mm     |
|      | 73767 | 73768   | Raspador curvo / Arched scraper           | 100 x 210 mm    |
|      | 61581 | 61581   | Cepillos / Brushes                        | 4 x 16 x 240 mm |



|                |                                                                                                                                                      |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cu-Be</b>   | Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий                       |
| <b>Al-Bron</b> | Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза |

## 15 PCS.

| COD.         | PCS.  |  | MAT.                                                             | Medidas en / Sizes in /<br>Mesures en |  |
|--------------|-------|-----------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------|
| <b>74382</b> | 15    | 50995                                                                             | Cu-Be                                                            | mm                                    | 10                                                                                |
| <b>74383</b> |       |                                                                                   | Al-Bron                                                          |                                       |                                                                                   |
| PCS.         | Cu-Be | Al-Bron                                                                           | Descripción / Description / Description                          |                                       |                                                                                   |
|              | 70474 | 71624                                                                             | Espátula / Scraper 50 mm                                         |                                       |                                                                                   |
|              | 70111 | 70541                                                                             | Tenazas Pico Loro / Groove joint pincers 12"                     |                                       |                                                                                   |
|              | 72458 | 72459                                                                             | Tijeras de hojalatero / Tin snips 300 mm                         |                                       |                                                                                   |
|              | 70117 | 71452                                                                             | Llaves ajustables / Adjustable wrenches 8"                       |                                       |                                                                                   |
|              | 70119 | 71454                                                                             | Llaves ajustables / Adjustable wrenches 12"                      |                                       |                                                                                   |
|              | 72452 | 72453                                                                             | Llave taponadora universal / Multi-head bung wrench -            |                                       |                                                                                   |
|              | 70102 | 70532                                                                             | Alicata universal / Combination pliers 200 mm                    |                                       |                                                                                   |
| 1            | 70106 | 70536                                                                             | Alicata telefonista / Long nose plier                            |                                       |                                                                                   |
|              | 70526 | 71781                                                                             | Martillo de uña / Claw hammer 338 mm                             |                                       |                                                                                   |
|              | 61581 | 61581                                                                             | Cepillos / Brushes 4 x 16 x 240 mm                               |                                       |                                                                                   |
|              | 71613 | 71614                                                                             | Cuchillos / Knives 250 mm                                        |                                       |                                                                                   |
|              | 73747 | 73749                                                                             | Raspador / Scraper 48 x 300 mm                                   |                                       |                                                                                   |
|              | 71597 | 71601                                                                             | Destornillador Phillips® / Phillips® screwdriver PH3             |                                       |                                                                                   |
|              | 71585 | 71592                                                                             | Destornillador electricista / Electrician screwdriver 8 x 150 mm |                                       |                                                                                   |
|              | 70124 | 71461                                                                             | Llave Heavy Duty / Heavy Duty pipe wrench 14"                    |                                       |                                                                                   |





## 16 PCS.

| COD.         | PCS.  |  | MAT.                                                             | Medidas en / Sizes in /<br>Mesures en |  |
|--------------|-------|------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------|------------------------------------------------------------------------------------|
| <b>74896</b> | 16    | 50995                                                                              | Cu-Be                                                            | mm                                    | 10                                                                                 |
| <b>74897</b> |       |                                                                                    | Al-Bron                                                          |                                       |                                                                                    |
| PCS.         | Cu-Be | Al-Bron                                                                            | Descripción / Description / Description                          |                                       |                                                                                    |
|              | 70474 | 71624                                                                              | Espátula / Scraper 50 mm                                         |                                       |                                                                                    |
|              | 70111 | 70541                                                                              | Tenazas Pico Loro / Groove joint pincers 12"                     |                                       |                                                                                    |
|              | 72458 | 72459                                                                              | Tijeras de hojalatero / Tin snips 300 mm                         |                                       |                                                                                    |
|              | 70117 | 71452                                                                              | Llaves ajustables / Adjustable wrenches 8"                       |                                       |                                                                                    |
|              | 70119 | 71454                                                                              | Llaves ajustables / Adjustable wrenches 12"                      |                                       |                                                                                    |
|              | 72452 | 72453                                                                              | Llave taponadora universal / Multi-head bung wrench -            |                                       |                                                                                    |
|              | 70102 | 70532                                                                              | Alicata universal / Combination pliers 200 mm                    |                                       |                                                                                    |
| 1            | 70106 | 70536                                                                              | Alicata telefonista / Long nose plier                            |                                       |                                                                                    |
|              | 70526 | 71781                                                                              | Martillo de uña / Claw hammer 338 mm                             |                                       |                                                                                    |
|              | 61581 | 61581                                                                              | Cepillos / Brushes 4 x 16 x 240 mm                               |                                       |                                                                                    |
|              | 71613 | 71614                                                                              | Cuchillos / Knives 250 mm                                        |                                       |                                                                                    |
|              | 73747 | 73749                                                                              | Raspador / Scraper 48 x 300 mm                                   |                                       |                                                                                    |
|              | 71597 | 71601                                                                              | Destornillador Phillips® / Phillips® screwdriver PH3             |                                       |                                                                                    |
|              | 71585 | 71592                                                                              | Destornillador electricista / Electrician screwdriver 8 x 150 mm |                                       |                                                                                    |
|              | 70124 | 71461                                                                              | Llave Heavy Duty / Heavy Duty pipe wrench 14"                    |                                       |                                                                                    |
|              | 76533 | 76533                                                                              | Linterna LED MasterEx / MasterEx LED torch -                     |                                       |                                                                                    |





## 17 PCS.

| COD.         | PCS. |  | MAT.    | Medidas en / Sizes in /<br>Mesures en |  |
|--------------|------|-------------------------------------------------------------------------------------|---------|---------------------------------------|-------------------------------------------------------------------------------------|
| <b>74388</b> | 17   | 50994                                                                               | Cu-Be   | mm                                    | 3,6                                                                                 |
| <b>74389</b> |      |                                                                                     | Al-Bron |                                       |                                                                                     |





| PCS. | Cu-Be | Al-Bron | Descripción / Description / Description            |            |
|------|-------|---------|----------------------------------------------------|------------|
|      | 70104 | 70534   | Alicate boca redonda / Round nose plier            |            |
|      | 70103 | 70533   | Alicate boca plana / Flat nose plier               |            |
|      | 70107 | 70537   | Alicate corte diagonal / Diagonal cutting plier    | 160 mm     |
|      | 70100 | 70530   | Alicate universal / Combination pliers             |            |
|      | 70115 | 70547   | Pinza boca fina / Neat tip tweezer                 | -          |
|      | 73903 | 73904   | Pelacables / Wirestripper                          | 170 mm     |
|      | 71448 | 71451   | Llaves ajustables / Adjustable wrenches            | 6"         |
|      | 72260 | 72281   |                                                    | 3 x 75 mm  |
| 1    | 72263 | 72284   | Destornillador mecánico / Slotted screwdriver      | 4 x 100 mm |
|      | 72267 | 72288   |                                                    | 6 x 150 mm |
|      | 72909 | 72910   | Destornillador Phillips® / Phillips® screwdriver   | PH0        |
|      | 71595 | 71599   |                                                    | PH1        |
|      | 70410 | 71354   |                                                    | 3 mm       |
|      | 70411 | 71355   | Llave hexagonal de bola / Ballpoint hexagonal keys | 4 mm       |
|      | 70412 | 71356   |                                                    | 5 mm       |
|      | 70413 | 71614   | Cuchillos / Knives                                 | 250 mm     |
|      | 70529 | 70546   | Tijeras / Scissors                                 | 225 mm     |

| COD.  | PCS. |  | MAT.    | Medidas en / Sizes in / Mesures en |  |
|-------|------|-----------------------------------------------------------------------------------|---------|------------------------------------|-----------------------------------------------------------------------------------|
| 74390 |      |                                                                                   | Cu-Be   |                                    |                                                                                   |
| 74391 | 17   | 51055                                                                             | Al-Bron | mm                                 | 23                                                                                |

| PCS. | Cu-Be | Al-Bron | Descripción / Description / Description    |              |
|------|-------|---------|--------------------------------------------|--------------|
|      | 71576 | 71577   | Barra de desencofrar / Wrecking bar        | 19 x 900 mm  |
|      | 70118 | 71453   |                                            | 10"          |
|      | 70119 | 71454   | Llaves ajustables / Adjustable wrenches    | 12"          |
|      | 70120 | 71455   |                                            | 15"          |
|      | 70489 | 71744   | Martillo de bola / Ball pein hammer        | 310 mm       |
|      | 70491 | 71746   |                                            | 350 mm       |
|      | 70519 | 71774   | Pico de calderero / Chipping hammer        | 355 mm       |
|      | 70505 | 71760   | Maceta octogonal / Sledge hammer           | 900 mm       |
| 1    | 73747 | 73749   | Raspador / Scraper                         | 48 x 300 mm  |
|      | 73767 | 73768   | Raspador curvo / Arched scraper            | 100 x 210 mm |
|      | 72272 | 72293   | Destornillador / Screwdriver               | 10 x 200 mm  |
|      | 72273 | 72294   |                                            | 10 x 300 mm  |
|      | 73815 | 73816   | Cortafrios hexagonal / Hexagonal chisel    | 18 x 160 mm  |
|      | 73798 | 73799   | Cortafrios cilíndrico / Cylindrical chisel | 24 x 250 mm  |
|      | 70121 | 71458   |                                            | 8"           |
|      | 70122 | 71459   | Llave Heavy Duty / Heavy Duty pipe wrench  | 10"          |
|      | 70124 | 71461   |                                            | 14"          |



## 20 PCS.

| COD.  | PCS. |  | MAT.    | Medidas en / Sizes in / Mesures en |  |
|-------|------|-------------------------------------------------------------------------------------|---------|------------------------------------|-------------------------------------------------------------------------------------|
| 74380 |      |                                                                                     | Cu-Be   |                                    |                                                                                     |
| 74381 | 20   | 50994                                                                               | Al-Bron | mm                                 | 8                                                                                   |



| PCS. | Cu-Be | Al-Bron | Descripción / Description / Description               |         |
|------|-------|---------|-------------------------------------------------------|---------|
|      | 70124 | 71461   | Llave Heavy Duty / Heavy Duty pipe wrench             | 14"     |
|      | 70174 | 70686   |                                                       | 10 mm   |
|      | 70175 | 70687   |                                                       | 11 mm   |
|      | 70176 | 70688   |                                                       | 12 mm   |
|      | 70177 | 70689   |                                                       | 13 mm   |
|      | 70178 | 70690   | Llaves combinadas / Combination wrenches              | 14 mm   |
| 1    | 70181 | 70693   |                                                       | 17 mm   |
|      | 70183 | 70695   |                                                       | 19 mm   |
|      | 70186 | 70698   |                                                       | 22 mm   |
|      | 71596 | 71600   | Destornillador Phillips® / Phillips® screwdriver      | PH2     |
|      | 71585 | 71592   | Destornillador electricista / Electrician screwdriver | 8 x 150 |
|      | 70118 | 71453   | Llaves ajustables / Adjustable wrenches               | 10"     |



**Cu-Be** Cobre berilio / Beryllium copper / Cuivre beryllium / Kupfer beryllium / Koper beryllium / Rame-berillio / Сплав Медь Бериллий  
**Al-Bron** Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronzo / Сплав Алюминий Бронза

| PCS. | Cu-Be | Al-Bron | Descripción / Description / Description  |                 |
|------|-------|---------|------------------------------------------|-----------------|
|      | 70102 | 70532   | Alicate universal / Combination pliers   | 200 mm          |
|      | 70106 | 70536   | Alicate telefonista / Long nose plier    |                 |
|      | 70526 | 71781   | Martillo de uña / Claw hammer            | 338 mm          |
| 1    | 61581 | 61581   | Cepillos / Brushes                       | 4 x 16 x 240 mm |
|      | 73747 | 73749   | Raspador / Scraper                       | 48 x 300 mm     |
|      | 70472 | 71622   | Espátula / Scraper                       | 30 mm x 200 mm  |
|      | 71613 | 71614   | Cuchillos / Knives                       | 250 mm          |
|      | 70110 | 70540   | Tenazas Pico Loro / Groove joint pincers | 10"             |

**37 PCS.**



| COD.         | PCS. |  | MAT.    | Medidas en / Sizes in /<br>Mesures en |  |
|--------------|------|-----------------------------------------------------------------------------------|---------|---------------------------------------|-----------------------------------------------------------------------------------|
| <b>74384</b> |      |                                                                                   | Cu-Be   |                                       |                                                                                   |
| <b>74385</b> | 37   | 50995                                                                             | Al-Bron | mm                                    | 13                                                                                |

| PCS. | Cu-Be | Al-Bron | Descripción / Description / Description               |                    |
|------|-------|---------|-------------------------------------------------------|--------------------|
|      | 70174 | 70686   |                                                       | 10 mm              |
|      | 70175 | 70687   |                                                       | 11 mm              |
|      | 70176 | 70688   |                                                       | 12 mm              |
|      | 70177 | 70689   |                                                       | 13 mm              |
|      | 70178 | 70690   |                                                       | 14 mm              |
|      | 70179 | 70691   | Llaves combinadas / Combination wrenches              | 15 mm              |
|      | 70181 | 70693   |                                                       | 17 mm              |
|      | 70183 | 70695   |                                                       | 19 mm              |
|      | 70186 | 70698   |                                                       | 22 mm              |
|      | 70188 | 70700   |                                                       | 24 mm              |
|      | 70110 | 70540   | Tenazas Pico Loro / Groove joint pincers              | 10"                |
|      | 71613 | 71614   | Cuchillos / Knives                                    | 250 mm             |
|      | 70474 | 71624   | Espátula / Scraper                                    | 50 mm              |
|      | 61581 | 61581   | Cepillos / Brushes                                    | 4 x 16 x 240 mm    |
|      | 70391 | 71287   |                                                       | 2 mm               |
|      | 70392 | 71288   |                                                       | 3 mm               |
|      | 70393 | 71289   |                                                       | 4 mm               |
|      | 70394 | 71290   | Llave hexagonal / Hex pipe wrench                     | 5 mm               |
| 1    | 70395 | 71291   |                                                       | 6 mm               |
|      | 70397 | 71293   |                                                       | 8 mm               |
|      | 70399 | 71295   |                                                       | 10 mm              |
|      | 70102 | 70532   | Alicate universal / Combination pliers                | 200 mm             |
|      | 70107 | 70537   | Alicate de corte diagonal / Diagonal cutting plier    | 160 mm             |
|      | 70129 | 71466   | Llave sueca / Swedish pipe wrench                     | 45° 1.1/2"         |
|      | 70118 | 71453   |                                                       | 10"                |
|      | 70119 | 71454   | Llaves ajustables / Adjustable wrenches               | 12"                |
|      | 70497 | 71752   | Martillo alemán / German type machinist's hammer      | 500 g, 310 mm      |
|      | 70513 | 71768   | Maceta cuadrada / Stoning hammer                      | 2 Kg (400 mm)      |
|      | 72306 | 72308   | Destornillador electricista / Electrician screwdriver | 5 x 100 mm         |
|      | 71585 | 71592   |                                                       | 8 x 150 mm         |
|      | 71595 | 71599   | Destornillador Phillips® / Phillips® screwdriver      | PH1                |
|      | 71597 | 71601   |                                                       | PH3                |
|      | 73796 | 73797   | Cortafrio cilíndrico / Cylindrical chisel             | 20 x 200 mm        |
|      | 73780 | 73781   | Cinzel en punta / Cross cutting chisel                | 200 mm             |
|      | 70429 | 71475   |                                                       | 5 mm, 150 x 10 mm  |
|      | 70434 | 71480   | Botador / Pin punch                                   | 10 mm, 150 x 14 mm |
|      | 70529 | 70546   | Tijeras / Scissors                                    | 225 mm             |







■ 38 PCS.

| COD.  | PCS.  |  | MAT.                                                  | Medidas en / Sizes in /<br>Mesures en |  |
|-------|-------|-----------------------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------|
| 74898 | 38    | 50995                                                                             | Cu-Be                                                 | mm                                    | 13                                                                                |
| 74899 |       |                                                                                   | Al-Bron                                               |                                       |                                                                                   |
| PCS.  | Cu-Be | Al-Bron                                                                           | Descripción / Description / Description               |                                       |                                                                                   |
|       | 70174 | 70686                                                                             |                                                       |                                       | 10 mm                                                                             |
|       | 70175 | 70687                                                                             |                                                       |                                       | 11 mm                                                                             |
|       | 70176 | 70688                                                                             |                                                       |                                       | 12 mm                                                                             |
|       | 70177 | 70689                                                                             |                                                       |                                       | 13 mm                                                                             |
|       | 70178 | 70690                                                                             |                                                       |                                       | 14 mm                                                                             |
|       | 70179 | 70691                                                                             | Llaves combinadas / Combination wrenches              |                                       | 15 mm                                                                             |
|       | 70181 | 70693                                                                             |                                                       |                                       | 17 mm                                                                             |
|       | 70183 | 70395                                                                             |                                                       |                                       | 19 mm                                                                             |
|       | 70186 | 70698                                                                             |                                                       |                                       | 22 mm                                                                             |
|       | 70188 | 70700                                                                             |                                                       |                                       | 24 mm                                                                             |
|       | 70110 | 70540                                                                             | Tenazas Pico Loro / Groove joint pincers              |                                       | 10"                                                                               |
|       | 71613 | 71614                                                                             | Cuchillos / Knives                                    |                                       | 250 mm                                                                            |
|       | 70474 | 71624                                                                             | Espátula / Scraper                                    |                                       | 50 mm                                                                             |
|       | 61581 | 61581                                                                             | Cepillos / Brushes                                    |                                       | 4 x 16 x 240 mm                                                                   |
|       | 70391 | 71287                                                                             |                                                       |                                       | 2 mm                                                                              |
|       | 70392 | 71288                                                                             |                                                       |                                       | 3 mm                                                                              |
|       | 70393 | 71289                                                                             |                                                       |                                       | 4 mm                                                                              |
|       | 70394 | 71290                                                                             | Llave hexagonal / Hex pipe wrench                     |                                       | 5 mm                                                                              |
|       | 70395 | 71291                                                                             |                                                       |                                       | 6 mm                                                                              |
|       | 70397 | 71293                                                                             |                                                       |                                       | 8 mm                                                                              |
|       | 70399 | 71295                                                                             |                                                       |                                       | 10 mm                                                                             |
|       | 70102 | 70532                                                                             | Alicate universal / Combination pliers                |                                       | 200 mm                                                                            |
|       | 70107 | 70537                                                                             | Alicate de corte diagonal / Diagonal cutting plier    |                                       | 160 mm                                                                            |
|       | 70129 | 71466                                                                             | Llave sueca / Swedish pipe wrench                     |                                       | 45° 1.1/2"                                                                        |
|       | 70118 | 71453                                                                             | Llaves ajustables / Adjustable wrenches               |                                       | 10"                                                                               |
|       | 70119 | 71454                                                                             |                                                       |                                       | 12"                                                                               |
|       | 70497 | 71752                                                                             | Martillo alemán / German type machinist's hammer      |                                       | 500g, 310 mm                                                                      |
|       | 70513 | 71768                                                                             | Maceta cuadrada / Stoning hammer                      |                                       | 2 Kg (400 mm)                                                                     |
|       | 72306 | 72308                                                                             | Destornillador electricista / Electrician screwdriver |                                       | 5 x 100 mm                                                                        |
|       | 71585 | 71592                                                                             |                                                       |                                       | 8 x 150 mm                                                                        |
|       | 71595 | 71599                                                                             | Destornillador Phillips® / Phillips® screwdriver      |                                       | PH1                                                                               |
|       | 71597 | 71601                                                                             |                                                       |                                       | PH3                                                                               |
|       | 71596 | 73797                                                                             | Cortafrio cilíndrico / Cylindrical chisel             |                                       | 20 x 200 mm                                                                       |
|       | 73780 | 73781                                                                             | Cinzel en punta / Cross cutting chisel                |                                       | 200 mm                                                                            |
|       | 70429 | 71475                                                                             | Botador / Pin punch                                   |                                       | 5 mm, 150 x 10 mm                                                                 |
|       | 70434 | 71480                                                                             |                                                       |                                       | 10 mm, 150 x 14 mm                                                                |
|       | 70529 | 70546                                                                             | Tijeras / Scissors                                    |                                       | 225 mm                                                                            |
|       | 76533 | 76533                                                                             | Linterna LED MasterEx / MasterEx LED torch            |                                       | -                                                                                 |

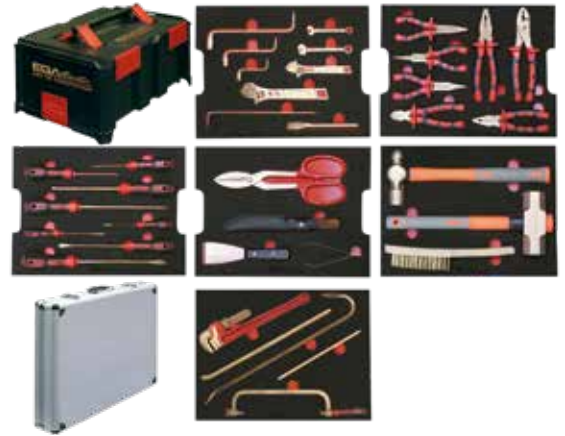


**KIT DE EXTRACCIÓN DE MINAS / SET FOR MINE REMOVAL / KIT POUR LE DÉMINAGE / SATZ FÜR DIE ENTFERNUNG VON MINEN / KIT ESTRAZIONE MINE / KIT DE EXTRAÇÃO DE MINAS / НАБОР ДЛЯ РАЗМИНИРОВАНИЯ**

**36 PCS.**


| COD.         | PCS. |  | MAT.  | Medidas en / Sizes in / Mesures en |  |
|--------------|------|-----------------------------------------------------------------------------------|-------|------------------------------------|-----------------------------------------------------------------------------------|
| <b>59160</b> | 36   | 50996, 51054                                                                      | Cu-Be | mm                                 | 23                                                                                |

| PCS. | Composición / Composition / Composition | Descripción / Description / Description                   |               |
|------|-----------------------------------------|-----------------------------------------------------------|---------------|
|      | 74222                                   | Agujas de trazar / <i>Scribers</i>                        | 250 mm        |
|      | 70100                                   | Alicate universal / <i>Combination plier</i>              | 160 mm        |
|      | 70102                                   | Alicate boca plana / <i>Flat nose plier</i>               | 200 mm        |
|      | 70103                                   | Alicate boca redonda / <i>Round nose plier</i>            |               |
|      | 70104                                   | Alicate telefonista / <i>Long nose plier</i>              | 160 mm        |
|      | 70105                                   | Alicate corte diagonal / <i>Diagonal cutting plier</i>    |               |
|      | 70107                                   | Alicates tipo Ford / <i>Slip joint pliers</i>             | 8"            |
|      | 72220                                   | Arcos de sierra / <i>Hack saws</i>                        | 300 mm        |
|      | 71574                                   | Barras de desencofrar / <i>Wrecking bars</i>              | 19 x 600 mm   |
|      | 70481                                   | Cepillos / <i>Brushes</i>                                 | 5 x 280 mm    |
|      | 73790                                   | Cortafíos / <i>Chisels</i>                                | 16 x 160 mm   |
|      | 71613                                   | Cuchillos / <i>Knives</i>                                 | 250 mm        |
|      | 72462                                   |                                                           | 6 x 72 mm     |
|      | 72464                                   | Destornilladores acodados / <i>Offset screwdrivers</i>    | 8 x 125 mm    |
|      | 72466                                   |                                                           | 10 x 195 mm   |
|      | 72260                                   |                                                           | 3 x 75 mm     |
| 1    | 72263                                   | Destornilladores mecánicos / <i>Slotted screwdrivers</i>  | 4 x 100 mm    |
|      | 72267                                   |                                                           | 6 x 150 mm    |
|      | 72270                                   |                                                           | 8 x 200 mm    |
|      | 71595                                   |                                                           | PH-1          |
|      | 71596                                   | Destornilladores Phillips® / <i>Phillips screwdriver®</i> | PH-2          |
|      | 71597                                   |                                                           | PH-3          |
|      | 71598                                   |                                                           | PH-4          |
|      | 70474                                   | Espátulas / <i>Scrapers</i>                               | 50 x 200 mm   |
|      | 72223                                   | Hojas de sierra / <i>Saw blades</i>                       | 300 mm        |
|      | 70117                                   |                                                           | 8"            |
|      | 71448                                   | Llaves ajustables / <i>Adjustable wrenches</i>            | 6"            |
|      | 70172                                   |                                                           | 8 mm          |
|      | 70174                                   | Llaves combinadas / <i>Combination wrenches</i>           | 10 mm         |
|      | 70125                                   | Llaves heavy duty / <i>Heavy duty wrenches</i>            | 18"           |
|      | 70491                                   | Martillos de bola / <i>Ball pein hammers</i>              | 900 gr        |
|      | 70504                                   | Macetas octogonales / <i>Sledge hammers</i>               | 2 kg          |
|      | 73839                                   | Palancas / <i>Pinchbars</i>                               | Ø 25 x 500 mm |
|      | 70115                                   | Pinzas / <i>Tweezers</i>                                  | 150 mm        |
|      | 72458                                   | Tijeras / <i>Tin snips</i>                                | 300 mm        |



**ACETILEX: ALEACIÓN ACETILEX, TRABAJO SEGURO INCLUSO EN AMBIENTES DE ACETILENO / ACETILEX ALLOY, SAFE WORK EVEN IN ACETYLENE ENVIRONMENTS / ALLIAGE ACETILEX, TRAVAIL SÛR MÊME EN PRÉSENCE D'ACÉTHYLÈNE / SICHERE ARBEIT SOGAR BEI ACETYLEN-ATMOSPHÄREN / LEGA ACETILEX, LAVORO SICURO ANCHE IN AMBIENTI DI ACETILENE / LIGA ACETILEX, TRABALHO SEGURO INCLUSIVÉ EM AMBIENTES ACETILENO / СПЛАВ АЦИТИЛЕКС, БЕЗОПАСНАЯ РАБОТА ДАЖЕ В СРЕДЕ АЦИТИЛЕНА**


**TENAZA PICO DE LORO / GROOVE JOINT PLIER / MULTIPRISE À CRÉMAILLÈRE / VERSTELBARE WASSERPUMPZANGE / POLIGRIP / ALICATE BICO DE PAPAGAIO / КЛЕЩИ ПЕРЕСТАВНЫЕ ЖЕЛОБКОВЫЕ**

| COD.  | L (inch) |  |
|-------|----------|-----------------------------------------------------------------------------------|
| 79450 | 10       | 430                                                                               |
| 79451 | 12       | 670                                                                               |



ACETILEX



**LLAVE AJUSTABLE / ADJUSTABLE WRENCH / CLÉ À MOLETTE / ROLLGABELSCHLÜSSEL / CHIAVI REGOLABILI A RULLINO / CHAVE AJUSTAVEL / РАЗВОДНЫЕ КЛЮЧИ**

| COD.  | L (inch) |  |
|-------|----------|-----------------------------------------------------------------------------------|
| 79452 | 6        | 135                                                                               |
| 79453 | 8        | 280                                                                               |
| 79454 | 10       | 440                                                                               |
| 79455 | 12       | 720                                                                               |



ACETILEX

**LLAVE HEAVY DUTY / HEAVY DUTY PIPE WRENCH / CLÉ SERRE-TUBES H.D. / EINHAND-ROHRZANGEN / GIRATUBI MODELLO AMERICANO PESANTE / CHAVE HEAVY DUTY / ТРУБНЫЙ КЛЮЧ ДЛЯ ТЯЖЕЛЫХ РАБОТ**

| COD.  | L (inch) |  |  |
|-------|----------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 79456 | 8"       | 1                                                                                  | 420                                                                                |
| 79457 | 10"      | 1.1/2"                                                                             | 740                                                                                |
| 79458 | 12"      | 2                                                                                  | 1050                                                                               |
| 79459 | 14"      |                                                                                    | 1320                                                                               |
| 79460 | 18"      | 2.1/2"                                                                             | 2260                                                                               |
| 79461 | 24"      | 5                                                                                  | 3470                                                                               |
| 79462 | 36"      | 6                                                                                  | 5880                                                                               |





ACETILEX

**LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ**

**LLAVES COMBINADAS / COMBINATION WRENCHES / CLÉS MIXTES / RINGSCHLÜSSEL / CHIAVI COMBinate / CHAVES BOCA E LUNETA / КОМБИНИРОВАННЫЕ КЛЮЧИ**

MM

| COD.  |  | L (mm) |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|
| 72867 | 6                                                                                   | 115    | 36                                                                                  |
| 72868 | 7                                                                                   | 120    | 43                                                                                  |
| 72869 | 8                                                                                   | 125    | 50                                                                                  |
| 72870 | 9                                                                                   | 130    | 65                                                                                  |
| 72871 | 10                                                                                  | 135    | 70                                                                                  |
| 72872 | 11                                                                                  | 140    | 75                                                                                  |
| 72873 | 12                                                                                  | 145    | 95                                                                                  |
| 72874 | 13                                                                                  | 155    | 105                                                                                 |
| 72875 | 14                                                                                  | 165    | 110                                                                                 |
| 72876 | 15                                                                                  | 175    | 120                                                                                 |
| 72877 | 16                                                                                  | 185    | 165                                                                                 |
| 72878 | 17                                                                                  | 195    | 175                                                                                 |
| 72879 | 18                                                                                  | 200    | 210                                                                                 |
| 72880 | 19                                                                                  | 210    | 220                                                                                 |
| 72881 | 20                                                                                  | 220    | 250                                                                                 |
| 72882 | 21                                                                                  | 230    | 270                                                                                 |
| 72883 | 22                                                                                  | 240    | 290                                                                                 |
| 72884 | 23                                                                                  | 250    | 370                                                                                 |
| 72885 | 24                                                                                  | 260    | 400                                                                                 |
| 72886 | 25                                                                                  |        | 420                                                                                 |
| 72887 | 26                                                                                  | 270    | 440                                                                                 |
| 72888 | 27                                                                                  | 280    | 500                                                                                 |



| COD.  | AP mm | L (mm) | g   |
|-------|-------|--------|-----|
| 72889 | 28    | 295    | 550 |
| 72890 | 29    | 300    | 650 |
| 72891 | 30    | 310    | 700 |
| 72892 | 32    | 330    | 800 |

ACETILEX

■ **FIJA DE GOLPE / SLOGGING OPEN WRENCH / À FOURCHE À FRAPPER / SCHLAG MAULSCHLÜSSEL / FISSE AD IMPULSO / BOCA DE IMPACTO / УДАРНЫЙ РОЖКОВЫЙ КЛЮЧ**

■ MM

| COD.  | AP mm | L (mm) | g    |
|-------|-------|--------|------|
| 72901 | 30    | 185    | 450  |
| 72902 | 32    | 195    | 550  |
| 72903 | 36    | 210    | 750  |
| 72904 | 41    | 220    | 1000 |
| 72905 | 46    | 240    | 1300 |
| 72906 | 50    | 250    | 1400 |
| 72907 | 55    | 270    | 1750 |
| 72908 | 60    | 280    | 2000 |



ACETILEX

■ **ESTRELLA DE GOLPE / SLOGGING RING / POLYAGONALE À FRAPPER / SCHLAG RINGSCHLÜSSEL / POLIGONALE AD IMPULSO / LUNETEA DE IMPACTO / УДАРНЫЙ КЛЮЧ ЗВЕЗДОЧКА**

■ MM

| COD.  | AP mm | L (mm) | g    |
|-------|-------|--------|------|
| 72893 | 30    | 165    | 420  |
| 72894 | 32    | 175    | 490  |
| 72895 | 36    | 210    | 600  |
| 72896 | 41    | 220    | 850  |
| 72897 | 46    | 240    | 1050 |
| 72898 | 50    | 250    | 1200 |
| 72899 | 55    | 260    | 1400 |
| 72900 | 60    | 270    | 1700 |



ACETILEX

■ **LLAVES HEXAGONALES / HEXAGONAL KEYS / CLÉS MALES / INBUSSCHLÜSSEL / CHIAVI ESAGONALI / CHAVES HEXAGONAIS / ШЕСТИГРАННИК**

■ MM

| COD.  | AP mm | L (mm) | H (mm) | g   |
|-------|-------|--------|--------|-----|
| 72856 | 2     | 38     | 13     | 7,0 |
| 72857 | 3     | 59     | 25     | 9,0 |
| 72858 | 4     | 65     | 30     | 11  |
| 72859 | 5     | 79     | 32     | 18  |
| 72860 | 6     | 85     | 37     | 28  |
| 72861 | 7     | 88     | 43     | 37  |
| 72862 | 8     | 92     | 44     | 55  |
| 72863 | 9     | 97     | 44     | 65  |
| 72864 | 10    | 110    | 45     | 90  |
| 72865 | 11    | 119    | 48     | 125 |
| 72866 | 12    | 130    | 52     | 160 |



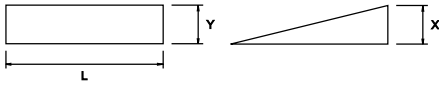
ACETILEX


37

**ANTICHISPA  
NON-SPARKING  
ANTIDÉFLAGRANT  
FUNKENFREI  
ANTISCINTILLA  
ANTI-DEFLAGRANTE  
ИСКРОБЕЗОПАСНЫЙ**



### ■ CUÑA / WEDGE / COIN / KEIL / CUNEO / CUNHA / КЛИН







| COD.  | L (mm) | X (mm) | Y (mm) |  g |
|-------|--------|--------|--------|--------------------------------------------------------------------------------------|
| 72851 | 100    | 10-0   | 50     | 210                                                                                  |
| 72852 | 150    | 13-0   |        | 420                                                                                  |
| 72853 | 180    | 19-0   |        | 750                                                                                  |
| 72854 | 200    | 12-0   |        | 500                                                                                  |
| 72855 | 230    | 20-0   |        | 800                                                                                  |

ACETILEX



### ■ DESTORNILLADORES / SCREWDRIVERS / TOURNEVIS / SCHRAUBENZIEHER / CACCIAVITI / CHAVES DE FENDA / ОТВЕРТКИ





#### ■ ELECTRICISTA / ELECTRICIAN / ELECTRICIEN / ELEKTRIKER / PER ELETTRICISTI / ELETRICISTA / ЭЛЕКТРИЧЕСКАЯ

| COD.  |  mm |  mm |  mm |  g |
|-------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 72825 | 50                                                                                   | 3                                                                                    | 85                                                                                   | 41                                                                                    |
| 72826 |                                                                                      | 4                                                                                    |                                                                                      | 50                                                                                    |
| 72827 | 100                                                                                  | 5                                                                                    |                                                                                      | 105                                                                                   |
| 72828 |                                                                                      | 6                                                                                    | 105                                                                                  | 115                                                                                   |
| 72829 | 150                                                                                  | 8                                                                                    | 110                                                                                  | 160                                                                                   |

ACETILEX







#### ■ PHILLIPS®\*

| COD.  |  mm |  |  mm |  g |
|-------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 72830 | 60                                                                                     | PH-0                                                                                | 85                                                                                     | 44                                                                                      |
| 72831 | 80                                                                                     | PH-1                                                                                |                                                                                        | 75                                                                                      |
| 72832 | 100                                                                                    | PH-2                                                                                | 105                                                                                    | 85                                                                                      |
| 72833 | 150                                                                                    | PH-3                                                                                | 110                                                                                    | 180                                                                                     |

ACETILEX



#### ■ POZIDRIV®\*\*


| COD.  |  mm |  |  mm |  g |
|-------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 72835 | 75                                                                                     | PZ-1                                                                                | 85                                                                                     | 50                                                                                      |
| 72836 | 100                                                                                    | PZ-2                                                                                | 105                                                                                    | 95                                                                                      |
| 72837 | 150                                                                                    | PZ-3                                                                                | 110                                                                                    | 160                                                                                     |

ACETILEX



### ■ MARTILLOS / HAMMERS / MARTEAUX / HÄMMER / MARTELLI / MARTELOS / МОЛОТКИ И КУВАЛДЫ

#### ■ MARTILLO DE BOLA / BALL PEIN HAMMER / MARTEAU À BOULE / SCHLOSSER HAMMER / MARTELO A PALLA / MARTELO DE BOLA / МОЛОТОК С ШАРОВОЙ ГОЛОВКОЙ


| COD.  | L (mm) |  g |
|-------|--------|---------------------------------------------------------------------------------------|
| 72838 | 310    | 500                                                                                   |
| 72839 | 340    | 680                                                                                   |
| 72840 | 350    | 900                                                                                   |

ACETILEX



\* Para tornillos PHILLIPS® (Marca registrada por Phillips Screw Company) / \*For screws PHILLIPS® (Phillips Screw Company registered trademark) / \*Pour vis PHILLIPS® (Marque enregistrée par Phillips Screw Company)  
 \*\* Para tornillos POZIDRIV® (Marca registrada por European Ind. Serv. Ltd.) / \*For screws POZIDRIV® (European Ind. Serv. Ltd. registered trademark) / \*Pour vis POZIDRIV® (Marque enregistrée par European Ind. Serv. Ltd.)


**MARTILLO ALEMÁN / GERMAN TYPE MACHINIST'S HAMMER / MARTEAU DE MECANICIEN / SCHLOSSER HAMMER / MARTELO TEDESCO / MARTELO TIPO ALEMÃO / СЛЕСАРНЫЙ МОЛОТОК НЕМЕЦКИЙ ТИП**

| COD.  | L (mm) |  |
|-------|--------|-----------------------------------------------------------------------------------|
| 72841 | 310    | 500                                                                               |
| 72842 |        | 800                                                                               |
| 72843 | 340    | 1000                                                                              |

ACETILEX



**MASETA OCTOGONAL / SLEDGE MALLET / MASSE OCTOGONALE / SCHLAGHAMMER / MAZZETTA OTTOGONALE / MARRETA OCTOGONAL / КУВАЛДА КУЗНЕЧНАЯ**

| COD.  | L (mm) |  |
|-------|--------|-----------------------------------------------------------------------------------|
| 72844 |        | 1000                                                                              |
| 72845 | 400    | 1500                                                                              |
| 72846 |        | 2000                                                                              |
| 72847 |        | 3000                                                                              |
| 72848 | 900    | 4000                                                                              |
| 72849 |        | 5000                                                                              |

ACETILEX



**PICO DE CALDERERO / CHIPPING HAMMER / PIOCHE DE CHAUDRONNIER / KESSELSTEINHAMMER / PICCONE DA BATTIRAME / PICADEIRA DE CALDEIREIRO / МОЛОТОК ВЫРУБНОЙ**

| COD.  | L (mm) |  |
|-------|--------|------------------------------------------------------------------------------------|
| 72850 | 280    | 400                                                                                |

ACETILEX



38

SEGURIDAD INTRÍNSECA  
INTRINSIC SAFETY  
SÉCURITÉ INTRINSÈQUE  
EXSCHUTZ  
SICUREZZA INTRINSECA  
SEGURANÇA INSTRINSECA  
ВЗРЫВОБЕЗОПАСНЫЙ



ATEX

Atmósfera - Explosiva  
Explosive - Atmosphere  
Atmosphère - Explosive



**DESIGNACIÓN Ex**  
**Ex DESIGNATION**  
**DÉSIGNATION Ex**
**ATEX**
**Atmósfera - Explosiva**
**Directiva 2014/34/UE**

Articula las disposiciones legales a tomar por los estados miembros para los aparatos y sistemas de protección diseñados para su uso en áreas potencialmente explosivas.

Nuevo: ATEX 114 (Antiguo: ATEX 95).

**Directiva 1999/92/CE**

Requerimientos mínimos para la mejora de la salud y la seguridad del trabajador en peligro ante atmósferas explosivas.

Nuevo: ATEX 153 (Antiguo: ATEX 137).

**ATEX**
**Explosive - Atmosphere**
**2014/34/UE Directive**

Harmonises legal provisions of member states for devices and protection systems for designated use in potentially explosive areas.

New: ATEX 114 (Old: ATEX 95).

**1999/92/CE Directive**

Minimum requirements for improving the health and safety protection of the worker at risk from explosive atmospheres.

New: ATEX 153 (Old: ATEX 137).

**ATEX**
**Atmosphère - Explosive**
**Directive 2014/34/UE**

Coordonne les dispositions légales à prendre dans les états membres pour les appareils et les systèmes de protection dessinés pour une utilisation dans des aires potentiellement explosives.

Nouveau: ATEX 114 (Ancien: ATEX 95).

**Directive 1999/92/CE**

Exigences minimum pour l'amélioration de la santé et de la sécurité du travailleur en danger dans des atmosphères explosives.

Nouveau: ATEX 153 (Ancien: ATEX 137).

**Ejemplos de denominación: / Designation examples: / Exemples de désignations:**

- Uso en atmósferas gaseosas / Use in gaseous atmospheres / Utilisation en atmosphères gazeuses: ☉ II 1 G EEx ia IIC T4
- Uso en atmósferas de polvo / Use in dusty atmospheres / Utilisation en atmosphères poussiéreuses: ☉ II 2 D T90°C IP64
- Uso para aplicaciones de minería / Use for minig applications / Application pour des utilisations: ☉ I M2 EEx ia I



**Indicación de que el producto es apto para su uso en ambientes explosivos**

*Indication of the suitability of the product in explosive environments*

**Indication que le produit est apte pour son utilisation dans des environnements explosifs**

**Grupo de aparatos**  
**Device group**
**Groupe d'appareils**

- I Minería / Mining / Minière
- II Todas las demás áreas explosivas / All other explosive areas / Tout le reste des zones explosives

**Categoría**
**Category**
**Catégorie**

- 1 Zonas / Zones / Zones: 0/20
- 2 Zonas / Zones / Zones: 1/21
- 3 Zonas / Zones / Zones: 2/22
- M1 Minería (en caso de grisú es posible seguir trabajando)  
*Mining (in case of firedamp, continuation of operation is possible)*  
Minier (en cas de grisou, le travail peut continuer)
- M2 Minería (en caso de grisú debe apagarse)  
*Mining (must be switched off in case of firedamp)*  
Minier (en cas de grisou, on doit l'éteindre)

**Atmósfera**
**Atmosphere**
**Atmosphère**

- G Gas / Gas / Gaz
- D Polvo / Dust / Poussière  
*(Mining - No details)*

**II 1 GD**
**EEx**
**ia**
**IIC**
**T4**
**T90°C**
**IP64**
**Tipos de protección frente a la ignición**
**Types of ignition protection**
**Types de protections face à l'ignition**

- o Inmersión en aceite / Oil immersion / Immersion dans l'huile
- p Presurización / Pressurisation / Prèssurisation
- q Relleno de polvo / Powder filling / Rempli de poussière
- d Carcasa resistente a la presión / Pressure-proof housing / Carcasse résistante à la pression
- e Aumento de seguridad / Increased safety / Augmentation de la sécurité
- ia Seguridad intrínseca (requerida para la Zona 0\*)  
\* Depend de la categoría del aparato  
*Intrinsic safety (required for Zone 0\*)*  
\* depends on device category  
Sécurité intrinsèque (recommandé pour la zone 0\*)  
\* Dépend de la catégorie d'appareil
- ib Seguridad intrínseca (adecuada para la Zona 1 (+2))  
*Intrinsic safety (adequate for Zone 1 (+2))*  
Sécurité intrinsèque (adequat pour les zones 1 (+2))
- m Encapsulado / Encapsulation / Capsulé
- s Protección especial / Special protection / Protection spéciale
- n Funcionamiento normal bajo condiciones normales (sólo para la Zona 2)  
*Normal operation under normal conditions (for Zone 2 only)*  
Fonctionnement normal en conditions normales (uniquement zone 2)
- nA Antichispa / Non-sparking / Anti-déflagrant
- nC Contactos protegidos / Protected contacts / Contacts protégés
- nR Carcasa resistente al vapor / Vapour-proof housing / Carcasse résistante à la vapeur
- nL Energía limitada / Limited energy / Énergie limitée
- nP Simplificada / Simplified / Simplifiée

**Clases de temperatura**
**Temperature classes**
**Classes de température**

- (Máxima temperatura de una superficie en la que el gas puede penetrar en el caso de fallo del aparato. No debería usarse en las zonas Ex de polvo.)  
*(Max. temperature of a surface that gas can penetrate in the event of device failure. Should not be used in dust-ex-markings.)*
- (Température maximum d'une surface dans laquelle le gaz peut pénétrer lors d'une défaillance de l'appareil. Ne doivent pas être utilisés dans les zones Ex de poussière.)
- T1 450 °C
  - T2 300 °C
  - T3 200 °C
  - T4 135 °C
  - T5 100 °C
  - T6 85 °C

**Grupo de explosión**
**Explosion group**
**Groupe d'explosion**

- (Dato facilitado para los aparatos usados en las áreas definidas como potencialmente explosivas por gas.)  
*(Data only for devices used in areas rendered potentially explosive by gas.)*
- (Renseignement donné pour les appareils utilisés dans les aires définies comme potentiellement explosives au gaz.)
- I Metano (minería) / Methane (mining) / Méthane (mines)
  - IIA Propano / Propane / Propane
  - IIB Etileno / Ethylene / Ethylène
  - IIC Grupo más peligroso (e.j. hidrógeno) / Most dangerous group (e.g. hydrogen) / Groupe plus dangereux (e.x. hydrogène)



## T90°C

### Máxima temperatura superficial Max. surface temperature Température maximum en surface

(Dato facilitado para los aparatos usados en las áreas definidas como potencialmente explosivas por polvo - raramente también utilizado en las gaseosas.)

(Data for devices used in areas rendered potentially explosive by dust - rarely also used in gas ex marking.)

(Renseignnement donné pour les appareils utilisés dans les aires définies comme potentiellement explosives par la poussière et rarement utilisés dans des aires gazeuses.)

Máxima temperatura de una superficie en caso de fallo del aparato (o durante su uso normal en los aparatos de categoría 3) que puede ser alcanzada en una atmósfera Ex.

#### Evaluación por el usuario:

- Temperatura límite 1 = 2/3 de la temperatura mínima de ignición del polvo presente.
- Temperatura límite 2 = mínima temperatura de quemado del polvo presente menos 75 K (grados Kelvin) (se aplica para capas de polvo de espesores de hasta 5 mm).

El valor más pequeño de los límites de temperatura debe estar por encima de la máxima temperatura superficial indicada para el aparato.

Maximum temperature of a surface during a machine error (normal operation in the case of category 3 devices) that can be reached by the ex atmosphere.

#### Evaluation by the user:

- Limit temperature 1 = 2/3 of min. ignition temperature of dust present
- Limit temperature 2 = min. glow temperature of dust present minus 75k (applies for layer thicknesses of up to 5mm)

The smaller value for the limit temperature must be above the indicated max. surface temperature of the device.

Température maximale d'une surface qui peut être atteinte dans une atmosphère Ex. dans le cas d'une défaillance d'un appareil (ou durant son utilisation normale dans les machines de catégorie 3)

#### Evaluation par l'utilisateur:

- Température limite 1 = 2/3 de la température minimum d'ignition de la poussière présente
- Température limite 2 = température minimum de brûlure de la poussière présente moins de 75k (degrés Kelvin) (elle s'applique pour des couches de poussières jusqu'à 5mm)

La valeur la plus basse de température doit être au-dessus de la température maximale superficielle indiquée pour l'appareil.



## IP64

### Código IP IP Code Code IP

(Dato facilitado sólo para aparatos usados en las áreas definidas como potencialmente explosivas por polvo.)

(Data only for devices used in areas rendered potentially explosive by dust.)

(Renseignnement donné uniquement pour les appareils utilisés dans des aires définies comme potentiellement explosives par la poussière.)

#### Figura 1. Protección contra el contacto y cuerpos extraños:

- Protección contra depósitos de polvo
- Protección contra penetración de polvo

#### Figura 2. Protección contra el agua:

Protección contra:

- (No protección)
- Goteo vertical de agua
- Goteo de agua sobre aparato en funcionamiento inclinado 15°
- Agua pulverizada
- Agua pulverizada
- Chorro de agua
- Fuerte chorro de agua
- Inmersión temporal
- Inmersión continua

#### Figure 1. Contact and foreign body protection:

- Protection against dust deposits
- Protection against dust penetration

#### Figure 2. Water protection

Protection against:

- (No protection)
- Vertically falling drip water
- Drip water on operating device inclined to 15° 3=spray water
- Spray water
- Spray water
- Jet water
- Strong jet water
- Temporary immersion
- Continuous immersion

#### Figure 1. Protection contre le contact et les corps étrangers:

- Protection contre les dépôts de poussière
- Protection contre la pénétration de poussière

#### Figure 2. Protection contre l'eau

Protection contre:

- (Pas de protection)
- Goutte verticale
- Gouttes d'eau avec une inclinaison de 15° sur un appareil en fonctionnement
- Eau pulvérisée
- Eau pulvérisée
- Jet d'eau
- Jet d'eau puissant
- Immersion temporaire
- Immersion continue

## DESIGNACIÓN Ex Ex DESIGNATION DÉSIGNATION Ex

### Protección frente a la explosión

Los principales principios para una segura e íntegra protección frente a la explosión son los siguientes:

1. Tomar medidas para evitar las atmósferas Ex siempre que sea posible.
2. Tomar medidas que prevengan la ignición de atmósferas Ex.
3. Tomar medidas que limiten los efectos de la explosión hasta un grado seguro.

### Esto se diferencia de:

#### Protección primaria frente a la explosión:

Tomar precauciones para prevenir o restringir la formación de atmósferas Ex explosivas.

#### Protección secundaria frente a la explosión:

Éste abarca el segundo grupo de medidas, las cuales tienen la intención de prevenir la ignición de una atmósfera capaz de explotar.

### Explosion Protection

The important principles for integrated safety explosion protection are as follows:

1. Measures are taken to avoid hazardous atmospheres whenever possible.
2. Measures are taken which prevent the ignition of hazardous atmospheres.
3. Measures are taken which limit the explosive effect to a safe degree.

### This differs from:

#### Primary explosive protection:

These are precautions taken to prevent or restrict the formation of hazardous explosive atmospheres.

#### Secondary explosive protection:

This covers the second group of measures, which are intended to prevent the ignition of an atmosphere that is capable of exploding.

### Protection contre l'explosion

Los principios les plus importants pour une protection sûre et entière contre l'explosion sont les suivants:

1. Adopter les mesures nécessaires pour éviter tant que possible la zone Ex
2. Prendre les mesures de prévention contre l'ignition en atmosphère Ex
3. Prendre les mesures qui limitent les effets de l'explosion à un niveau nul

### Celá se différencie de:

#### La protection primaire contre l'explosion:

Prendre des précautions pour prévenir ou réduire la formation d'atmosphères Ex explosives

#### La protection secondaire contre l'explosion:

Celui-ci comprend le second groupe de moyens, ceux qui ont l'intention de prévenir l'ignition d'une atmosphère qui peut exploser.

| Definición de acuerdo con la Directiva 1999/92/EC (ATEX 153)<br>Definition in accordance with 1999/92/EC Directive (ATEX 153)<br>Définition en accord à la Directive 1999/92/EC (ATEX 153)                                                                                                                                                                                                                                                                                                                                                                                                      | Valores de referencia<br>(no estandarizados)<br>Reference values<br>(not standardised)<br>Valeurs de référence<br>(non standardisés) | Zona<br>Zone<br>Zone | Debe usarse un aparato de la siguiente categoría (ver la Directiva 1999/92/EC - ATEX 153)<br>A device from the following category must be used (see 1999/92/EC-ATEX 153 Directive)<br>On doit utiliser un appareil de la catégorie suivante (Voir la Directive 1999/92/EC - ATEX 153) | e |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| Área donde con frecuencia o bien durante un largo periodo de tiempo está presente una atmósfera potencialmente explosiva mezcla de aire y gases inflamables, vapores o niebla. / Area in which a potentially explosive atmosphere as a mixture of air and flammable gases, vapours or mists is present either frequently or over a prolonged period. / Aire où fréquemment ou durant une longue période, une atmosphère potentiellement explosive avec un mélange d'air et de gaz inflammable, de vapeurs ou de brouillard, est présente.                                                       | P>1000 h/a                                                                                                                           | 0                    | 1                                                                                                                                                                                                                                                                                     | G |
| Área donde bajo un funcionamiento normal puede formarse ocasionalmente una atmósfera potencialmente explosiva mezcla de aire y gases inflamables, vapores o niebla. / Area in which under normal operation a potentially explosive atmosphere as a mixture of air and flammable gases, vapours or mists can occasionally form. / Aire dans laquelle en conditions normales, peut se former occasionnellement une atmosphère potentiellement explosive avec un mélange d'air et de gaz inflammable, de vapeurs ou de brouillard.                                                                 | 10...1000 h/a                                                                                                                        | 1                    | 2<br>(1G también posible / also possible / aussi possible)                                                                                                                                                                                                                            | G |
| Área donde bajo un funcionamiento normal no se presenta normalmente una atmósfera potencialmente explosiva aunque puede presentarse durante un breve periodo de tiempo. / Area in which under normal operation a potentially explosive atmosphere as a mixture of air and flammable gases, vapours or mists is not normally present but may occur for just a short period. / Aire dans laquelle en conditions normales, il n'y a pas d'atmosphère potentiellement explosive, malgré une possibilité d'apparition sur de courtes durées.                                                         | <10 h/a                                                                                                                              | 2                    | 3<br>(1G, 2G también posible / also possible / aussi possible)                                                                                                                                                                                                                        | G |
| Área donde está presente constantemente, durante periodos prolongados o bien con frecuencia, una atmósfera potencialmente explosiva en forma de nube de polvo inflamable. / Area in which a potentially explosive atmosphere in the form of a cloud of flammable air-borne dust is present either constantly, over prolonged periods or frequently. / Aire dans laquelle, une atmosphère potentiellement explosive en forme de nuage de poussière inflammable, est constante ou présente sur de longues durées.                                                                                 | >1000 h/a                                                                                                                            | 20                   | 1                                                                                                                                                                                                                                                                                     | D |
| Área donde bajo un funcionamiento normal puede formarse una atmósfera potencialmente explosiva en forma de nube de polvo inflamable. / Area in which under normal operation a potentially explosive atmosphere in the form of a cloud of flammable air-borne dust can occasionally form. / Aire dans laquelle, en conditions normales, une atmosphère potentiellement explosive sous forme de nuage de poussières inflammables, peut se former.                                                                                                                                                 | 10...1000 h/a                                                                                                                        | 21                   | 2<br>(1D también posible / also possible / aussi possible)                                                                                                                                                                                                                            | D |
| Área donde bajo un funcionamiento normal no se presenta normalmente una atmósfera potencialmente explosiva en forma de nube de polvo inflamable aunque puede presentarse durante un breve periodo de tiempo. / Area in which under normal operation a potentially explosive atmosphere in the form of a cloud of flammable air-borne dust is not normally present although may occur for just a short period. / Aire dans laquelle en conditions normales, une atmosphère potentiellement explosive sous forme de nuage de poussières n'est pas présente, mais peut apparaître un bref instant. | <10 h/a                                                                                                                              | 22                   | 3<br>(1D, 2D también posible / also possible / aussi possible)                                                                                                                                                                                                                        | D |

### División en Clases de Temperatura

La indicación de la clase de temperatura puede garantizarse sólo si se respeta la temperatura ambiente especificada para el aparato en uso (mirar datos técnicos o chapa de características). Su estricto cumplimiento es un requisito obligatorio.

Una vez que la máxima temperatura superficial de cualquier aparato alcance la temperatura de ignición de la atmósfera Ex circundante, puede ocurrir una explosión.

Debido a esto, todo equipo-material clasificado dentro del Grupo II se divide en clases de temperatura. Para tener en cuenta la posibilidad de atmósferas Ex potenciales, la temperatura de ignición más baja debe ser mayor que la máxima temperatura superficial.

### Division into Temperature Classes

The temperature class indication can be guaranteed only if the ambient temperature specified for the operating device is respected (see Technical Data or Rating Plate). Strict compliance is a mandatory requirement.

Once the maximum surface temperature of any apparatus reaches the ignition temperature of the surrounding hazardous atmosphere an explosion can occur.

Because of this, all equipment classified to Group II is divided into temperature classes. To allow for the possibility of potential hazardous atmospheres, the lowest ignition temperature must always be higher than the maximum surface temperature.

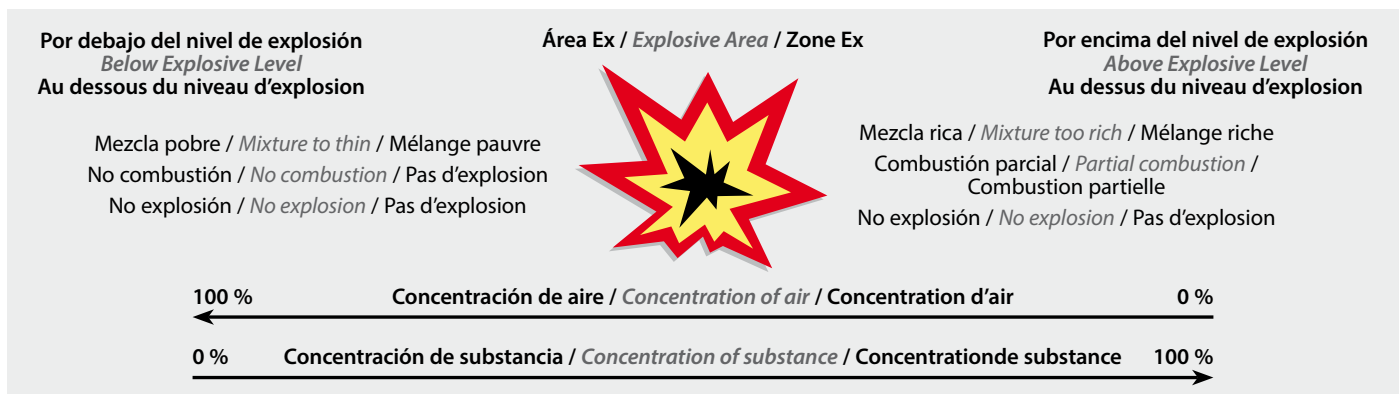
### Division en classes de températures

L'indication de la classe de température peut être garantie uniquement si nous respectons la température ambiante, spécifiée pour l'appareil en fonctionnement (voir les renseignements techniques ou la table de caractéristiques). Son application stricte est une obligation.

Quand la température superficielle maximale de tout appareil atteint la température d'ignition de l'atmosphère Ex circulant, il peut se produire une explosion.

C'est pour cela, que tout équipement - matériel classifié dans le Groupe II, est divisé en classes de températures. Pour prendre en compte, la possibilité d'atmosphère Ex potentielle, la température d'ignition la plus basse doit être supérieure à la température maximale superficielle.

| Clases de temperatura de gases inflamables y vapores y temperaturas superficiales permitidas del aparato en uso de acuerdo con la DIN EN 50014<br><i>Temperature classes of flammable gases and vapours and permitted surface temperatures of the operating device in accordance with DIN EN 50014</i><br>Classes de températures de gaz inflammables et de vapeurs et de températures superficielles autorisées pour l'appareil utilisé en accord avec la norme DIN EN 50014 |                                                                                                                  |                                                                                                                           |                                                                                   |                                                                                                |      |                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------|
| Clase de temperatura<br><i>Temperature class</i><br>Classe de température                                                                                                                                                                                                                                                                                                                                                                                                     | T1                                                                                                               | T2                                                                                                                        | T3                                                                                | T4                                                                                             | T5   | T6                                                                     |
| Temperatura de ignición (°C)<br><i>Ignition temperature in °C</i><br>Température d'ignition (°C)                                                                                                                                                                                                                                                                                                                                                                              | >450                                                                                                             | >300                                                                                                                      | >200                                                                              | >135                                                                                           | >100 | >85                                                                    |
| Máxima temperatura superficial (°C)<br><i>Maximum temperature in °C</i><br>Température maximum superficielle (°C)                                                                                                                                                                                                                                                                                                                                                             | 450                                                                                                              | 300                                                                                                                       | 200                                                                               | 135                                                                                            | 100  | 85                                                                     |
| Ejemplos:<br><i>Examples:</i><br>Ejemplos:                                                                                                                                                                                                                                                                                                                                                                                                                                    | Propano / <i>Propane</i> / Propane<br>Metano / <i>Methane</i> / Méthane<br>Amoniaco / <i>Ammoniac</i> / Ammoniac | Etileno / <i>Ethylene</i> / Ethylène<br>Alcoholes / <i>Alcohols</i> / Alcools<br>Acetileno / <i>Acetylene</i> / Acétylène | Petróleo / <i>Petrol</i> / Pétrole<br>Disolventes / <i>Solvents</i> / Dissolvants | Etilétero / <i>Ethylether</i> / Etiléther<br>Acetaldehído / <i>Acetaldehyde</i> / Acetaldehyde | -    | Disulfuro de carbono / <i>Carbon-disulphide</i> / Disulfure de carbone |



Las explosiones dependen de muchos parámetros.

Sólo para condiciones atmosféricas y sustancias puras se muestran valores y datos suficientemente comparativos. Una explosión puede ocurrir solamente donde una sustancia inflamable en forma de gases, vapores, humos y polvo se encuentra con suficiente oxígeno para alimentar la combustión y allí es donde se localiza la fuente de ignición.

#### Ejemplo:

Hidrógeno: entre 4,0 y 77,0 % en aire  
 Propano: entre 1,7 y 10,6 % en aire  
 Amoniaco: entre 15,4 y 33,6 % en aire  
 Metano: entre 4,4 y 16,5 % en aire

Explosions are dependent on many parameters.

Only for atmospherical conditions and pure substances sufficient comparative values and data are shown. An explosion can only occur where a flammable substance in the form of gases, vapours, smoke and dust exists along with sufficient oxygen to support -combustion and there is a source of ignition.

#### E.g.:

Hydrogen: 4,0 to 77,0 % in air  
 Propane: 1,7 to 10,6 % in air  
 Ammonia: 15,4 to 33,6 % in air  
 Methane: 4,4 to 16,5 % in air

Les explosions dépendent de beaucoup de paramètres.

Uniquement pour des conditions atmosphériques et des substances pures nous pouvons montrer des valeurs et des données suffisamment comparables. Une explosion peut se produire uniquement en présence de substances inflammables sous forme de gaz, de vapeurs, de fumées et de poussières, avec suffisamment d'oxygène pour alimenter la combustion, c'est, là que se trouve la source de l'ignition.

#### Exemple:

Hydrogène: entre 4,0 et 77,0 % dans l'air  
 Propane: entre 1,7 et 10,6 % dans l'air  
 Ammoniac: entre 15,4 et 33,6 % dans l'air  
 Méthane: entre 4,4 et 16,5 % dans l'air

## FUNDAMENTOS DE LA PROTECCIÓN FRENTE A LA EXPLOSIÓN DE POLVO

### FUNDAMENTALS OF DUST EXPLOSION PROTECTION

### BASES DE LA PROTECCIÓN CONTRA L'EXPLOSION DE POUSSIÈRES

#### Principios fundamentales:

El fabricante de aparatos en uso en áreas definidas como potencialmente explosivas por causas del polvo debe indicar la máxima temperatura superficial de todos los aparatos en los que el polvo pueda penetrar (usualmente expresado en °C –la indicación de la clase de temperatura debería evitarse aquí). Esta temperatura es parte de la denominación Ex.

#### Ejemplos de denominación:

⊕ II 2 D T90°C IP64

(Si el tipo de protección frente a la ignición está basado en la carcasa, el ratio de protección de la carcasa debería también estar indicado por un código IP.)

o

⊕ II 2 D Ex iaD 21 T96°C

(Este aparato ya ha sido aprobado de acuerdo al nuevo estándar legal IEC “Seguridad Intrínseca del Polvo”) – “iaD”. Este estándar legal especifica que la denominación también contenga la zona correspondiente –en este caso 21).

#### Protección frente a la explosión de polvo - temperatura:

Los parámetros de combustión y explosión para el polvo dependen de su condición. Los parámetros que afectan al comportamiento de la combustión y la explosión incluyen el tamaño de las partículas, la forma de las partículas, el contenido de agua, la pureza y donde sea aplicable, el contenido de disolventes inflamables. La distribución del tamaño de las partículas y el valor medio (valor promedio de los tamaño de partícula) debería también ser conocido.

De acuerdo con la Directiva 1999/92/EG (ATEX 153, reemplazando a: ATEX 137), el operario del sistema/empleo está obligado a hacer una evaluación sobre el peligro y debe por tanto saber la mínima temperatura de quemado del polvo.

Existen simples cálculos para determinar las dos “temperaturas” y son:

- Temperatura límite 1 = 2/3 de la temperatura mínima de ignición.
- Temperatura límite 2 = temperatura mínima de ignición \* menos 75K.

Estas 2 temperaturas límite deben ser examinadas para confirmar cuál de ellas garantiza la mayor seguridad.

#### Ejemplo 1:

Temperatura mínima de ignición = +330 °C

Temperatura mínima de quemado = +300 °C

- Temperatura límite 1 =  $2/3 \times +330 \text{ °C} = +220 \text{ °C}$
- Temperatura límite 2 =  $+300 \text{ °C} - 75\text{K} = +225 \text{ °C}$

#### Fundamental principles:

The manufacturer of operating devices for areas rendered potentially explosive through dust must indicate the maximum surface temperature of all devices that dust can penetrate (usually expressed in °C –indication of the temperature class should be avoided here). This temperature is part of the dust Ex-designation.

#### Designation examples:

⊕ II 2 D T90°C IP64

(If the ignition protection type is based on the housing, the housing protection rating should also be stated as an IP Cede.)

or

⊕ II 2 D Ex iaD 21 T96°C

(This device has already been approved according to the new IEC de-jure standard “Intrinsic Dust Safety”) – “iaD”. This de jure standard specifies that the designation also contains the corresponding zone –in this case 21.)

#### Dust explosion protection - temperature:

Combustion and explosion parameters for dusts depend on their condition. Parameters that affect combustion and explosion behaviour include particle size, particle shape, water content, purity and where applicable the content of the flammable solvents. The particle size distribution and the mean value (value for average particle size) should also be known.

In accordance with 1999/92/G Directive (ATEX 153, replacing: ATEX 137), the system operator/employer is obliged to make a hazard assessment and must therefore be aware of the minimum glow temperature of the dust.

There are simple calculations to determine the two “temperatures” and they are carried out thus:

- Limit temperature 1 = 2/3 of minimum ignition temperature
- Limit temperature 2 = minimum ignition temperature \* minus 75°K

These two limit temperatures must now be examined to confirm which guarantees the greater safety.

#### Example 1:

Minimum ignition temperature = +330°C

Minimum glow temperature = +300°C

- Limit temperature 1 =  $2/3 \times +330 \text{ °C} = +220 \text{ °C}$
- Limit temperature 2 =  $+300 \text{ °C} - 75\text{K} = +225 \text{ °C}$

Greater safety:

Limit temperature (1) = +220°C

Here a device with a max. surface temperature in the event of failure  $\leq +220 \text{ °C}$  must be used.

#### Principes fondamentaux:

Le fabricant de matériel, destiné aux aires définies comme potentiellement explosives à cause de la poussière, doit indiquer la température maximum superficielle sur tous les appareils, à laquelle la poussière peut entrer (normalement exprimée en °C –l’indication de la classe de température devrait être évitée). Cette température fait partie de la désignation Ex.

#### Exemples de désignations:

⊕ II 2 D T90°C IP64

(Si le type de protection contre l’ignition est sur la carcasse, le ratio de protection de la carcasse devrait aussi être indiqué par un code IP.)

ou

⊕ II 2 D Ex iaD 21 T96°C

(Cet appareil a été déjà certifié suivant la nouvelle norme légale IEC “Sécurité intrinsèque de la poussière”) – “iaD”. Cette norme légale spécifie que la désignation inclut aussi la zone correspondante, dans ce cas 21.)

#### Protection contre l’explosion de poussière - température:

Les paramètres de combustion et d’explosion de la poussière dépendent de sa forme. Les paramètres qui conditionnent le comportement de la combustion et de l’explosion, incluent la taille, la forme des particules, le contenu de l’eau, la pureté et son lieu d’application, le contenu des dissolvants inflammables. La répartition de la dimension des particules et la valeur moyenne (valeur moyenne de la taille des particules) devrait être aussi connue.

En accord avec la directive 1999/92/EG (ATEX 153, remplaçant: ATEX 137), l’opérateur du système/employé est obligé de faire une évaluation du risque et doit connaître au minimum la température minimale de combustion de la poussière.

Il existe de simples calculs pour déterminer les deux “températures” et ce sont:

- Température limite 1 = 2/3 de la température minimale d’ignition
- Température limite 2 = température minimale d’ignition \* moins 75K

Ces deux températures minimales doivent être connues pour confirmer laquelle fournit la plus grande sécurité

#### Exemple 1:

Température minimum d’ignition = +330°C

Température minimum de combustion = +300°C:

- Température limite 1 =  $2/3 \times +330 \text{ °C} = +220 \text{ °C}$
- Température limite 2 =  $+300 \text{ °C} - 75\text{K} = +225 \text{ °C}$

Plus grande sécurité:

Température limite (1) = +220°C

Mayor seguridad:

Temperatura límite (1) = +220 °C

Aquí debe usarse un aparato con una temperatura superficial máxima en caso de fallo  $\leq +220$  °C. Según lo indicado, la denominación del aparato incluye el valor correspondiente.

#### Ejemplo 2:

Temperatura mínima de ignición = +186 °C  
 Temperatura mínima de quemado = +180 °C

- a) Temperatura límite 1 =  
 $2/3 \times +186$  °C = +124 °C
- b) Temperatura límite 2 =  
 $+180$  °C - 75K = +105 °C

Mayor seguridad:

Temperatura límite (2) = +105 °C

Aquí debe usarse un aparato con una temperatura superficial máxima en caso de fallo  $\leq +105$  °C.

- \* El valor para la temperatura de quemado se aplica con capas de polvo de espesores de 5 mm. La temperatura de seguridad debe incrementarse para mayores espesores de capa.

#### Caso especial - Aparatos de Categoría 3

A diferencia de los aparatos de Categoría 1 y 2, para los aparatos de Categoría 3 (de uso solamente en las Zonas 2 y 22 respectivamente) no deben tenerse en cuenta los peligros potenciales en caso de fallo (cortocircuitos, conexiones rotas, etc.). El aparato se evalúa solamente respecto a los peligros durante un funcionamiento normal. Es relativamente poco probable que el aparato falle al mismo tiempo que se presenta una breve atmósfera explosiva. Por lo tanto no se requiere ningún Certificado de Test de Aprobación del Tipo EC para los aparatos de Categoría 3. El fabricante puede confirmar que el aparato en uso cumple con el pertinente estándar. Sin embargo, los aparatos EGA Master de Categoría 3 están todavía siendo probados por un centro de certificación y EGA Master está por ello concediendo declaraciones de conformidad. (Naturalmente, los aparatos de Categoría 2 también ofrecen una significativa seguridad en las Zonas 2 y 22 respectivamente).

As stated, the device designation includes a corresponding value.

#### Example 2:

Minimum ignition temperature = +186 °C  
 Minimum glow temperature = +180 °C:

- a) Limit temperature 1 =  
 $2/3 \times +186$  °C = +124 °C
- b) Limit temperature 2 =  
 $+180$  °C - 75°K = +105 °C

Greater safety:

Limit temperature (2) = +105 °C

Here a device with a max. surface temperature in the event of failure  $\leq +105$  °C must be used.

- \* The value for the glow temperature applies with a dust layer thickness of 5mm. The temperature safety distance must be increased for larger layer thicknesses.

#### Special case - Category 3 devices

In contrast to Category 1 and 2 devices, potential hazards in the event of failure (e.g. short circuiting, connection break etc.) do not have to be considered for Category 3 devices (for use only in Zones 2 respectively 22). The device is evaluated only in respect of hazards during normal operation, it is relatively unlikely that the device should fail at the same time as a short-term explosive atmosphere is present. No EC Type Approval Test Certificate is therefore required for Category 3 operating devices. The manufacturer may confirm that the operating device complies with the relevant standard. Nonetheless, EGA Master Category 3 devices are still tested by a certified centre and. EGA Master is then awarded a declaration of conformity. (Of course, Category 2 operating devices also offer significantly greater safety in Zones 2 respectively 22.)

Dust explosions – albeit of a predominantly minor nature – occur relatively frequently.

A leaflet issued by the Government Safety Organisation of the Federal Republic of Germany states:

"According to documentation published by property insurers, it can be assumed that an average of one dust explosion per day occurs in the Federal Republic of Germany; around one in four of these explosions are caused by foodstuff or animal feed dusts."

Ici, nous devons utiliser un appareil d'une température maximale superficielle en cas de problème  $\leq +220$  °C. Suivant l'indication, la dénomination de l'appareil inclut la valeur correspondante.

#### Exemple 2:

Température minimale d'ignition = +186 °C

Température minimum de combustion = +180 °C:

- a) Température limite 1 =  
 $2/3 \times +186$  °C = +124 °C
- b) Température limite 2 =  
 $+180$  °C - 75K = +105 °C

Plus grande sécurité:

Température limite (2) = +105 °C

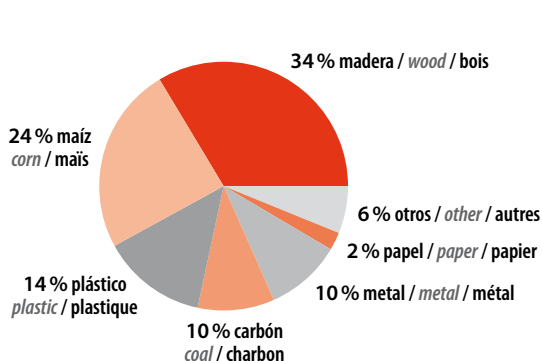
Dans ce cas nous devons utiliser un appareil avec une température superficielle maximum en cas de problème de  $\leq +105$  °C.

- \* La valeur pour la température de combustion s'applique sur les couches de poussière les plus épaisses de 5 mm. La température de sécurité doit être augmentée pour de plus grandes épaisseurs de couche.

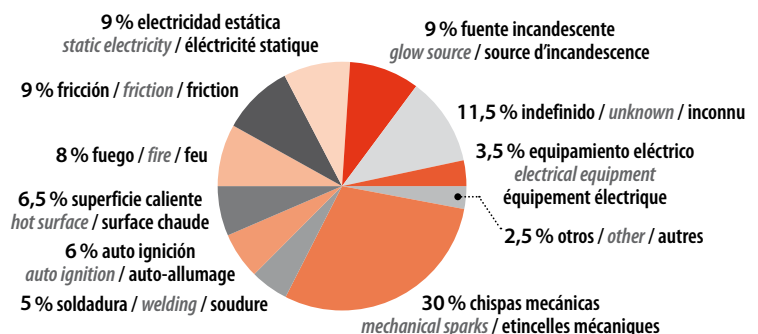
#### Cas particulier - Appareils de Catégorie 3

A la différence des appareils de catégories 1 et 2, pour les appareils de catégorie 3 (d'utilisation uniquement en zones 2 et 22 respectivement) nous ne prenons pas en compte les dangers potentiels dus aux pannes (courtcircuits, connexions défectueuses, etc.). L'appareil est uniquement évalué pour les dangers en fonctionnement normal. Il est relativement peu probable que l'appareil aie un problème en même temps que la présence brève d'une atmosphère explosive. Le Certificat de Test de contrôle du type EC n'est pas obligatoire pour les appareils de catégorie 3. Le fabricant peut confirmer que l'appareil utilisé remplit les conditions de la norme. Mais, les appareils EGA Master de Catégorie 3 sont testés par un centre de certification et c'est pour cela qu'EGA Master délivre une déclaration de conformité. (Naturellement, les appareils de catégorie 2 offrent aussi une sécurité significative dans les Zones 2 et 22 respectivement).

#### ■ EXPLOSIONES DE POLVO POR TIPO DE POLVO DUST EXPLOSIONS BY DUST TYPE EXPLOSIONS DE POUDRE PAR TYPE DE POUDRE



#### ■ FUENTES DE IGNICIÓN DE APARATOS ELÉCTRICOS IGNITION SOURCES BY ELECTRICAL OPERATING DEVICE TYPE SOURCES D'IGNITION D'APPAREILS ÉLECTRIQUES



Las explosiones por polvo –aunque su existencia sea de naturaleza menor– ocurren relativamente con mucha frecuencia.

Un folleto informativo de la Organización Gubernamental de la Salud de la República Federal de Alemania afirma:

“De acuerdo a la documentación publicada por las aseguradoras, se establece que ocurre por media una explosión por polvo al día en la República Federal de Alemania, de las cuales una cuarta parte es causada por polvos de alimentación.”

Las explosiones por polvo son un problema global. En EE.UU., entre 1980 y 1990, por ejemplo, se registraron alrededor de 200 explosiones por polvo serias con polvos de alimentación, siendo causa de 54 muertes, 256 heridos y un daños a la propiedad de más de 165 millones de dólares.

Las fuentes de ignición de aparatos eléctricos representan solamente una pequeña proporción de las causas de ignición por polvo existentes –debido principalmente a las medidas de seguridad establecidas para la construcción de plantas eléctricas en zonas potencialmente explosivas.

La introducción de la regulación en plantas eléctricas en áreas potencialmente explosivas –ElexV" [1.4]– en 1980 especificó un tipo de certificado para los instrumentos eléctricos usados en la Zona 10 (desde 01.07.2003 en las Zonas 20 y 21).

Los instrumentos “protegidos contra explosiones por polvo”, cuya temperatura superficial permanece por debajo del límite aceptable para una capa de polvo estandarizada de 5 mm, pueden, aun cuando exista un certificado oficial, convertirse en fuente de peligro si, contrariamente a las condiciones, se cubren completamente por una capa espesa de polvo.

*Dust explosions are a world-wide problem. Between 1980 and 1990 in the USA, for example, some 200 serious foodstuff or animal feed related dust explosions were recorded, causing 54 deaths, 256 injuries and property damage amounting to 165 million US dollars.*

*Electrical operating devices represent only a small proportion of the ignition sources found to cause dust explosions –not least due to the safety stipulations in the regulations for erecting electrical plants in potentially explosive areas.*

*The introduction of the (Regulation on electrical plants in potentially explosive areas) –ElexV" [1.4]– in 1980 specified a type examination certificate for electrical operating devices used in Zone 10 (from 01.07.2003 in Zones 20 and 21).*

*“Dust explosion-protected” operating devices, the surface temperatures of which lies below the acceptable limit for standardised dust thickness of 5mm, can, despite the existence of an official test certificate, become a danger source if, contrary to the conditions, they become covered or completely encased with a thick layer of dust.*

Les explosions par la poussière –malgré que leurs existences à l'état naturel ne sont pas fréquentes– elles se produisent relativement souvent.

Un dossier d'information de l'Organisation Gouvernementale de la Santé de la République fédérale allemande affirme que:

“Conformément à la documentation publiée para les compagnies d'Assurance, il est établi qu'il se produit chaque jour, en RFA, une explosion par la poussière, dont d'entre elles sont provoquées par des poussières alimentaires.”

Les explosions par la poussière sont un problème global. En EEUU, entre 1980 et 1990, par exemple, furent dénombrées plus de 200 explosions sérieuses par la poussière alimentaire, provoquant 54 morts, 256 blessés et des destructions matérielles évaluées à 165 millions de dollars.

Les sources d'ignition d'appareils électriques représentent uniquement une petite proportion des causes d'ignition par les poussières existantes –Cela du principalement aux mesures de sécurité établies pour la construction d'usines électriques en zones potentiellement explosives.

L'introduction de la régulation dans les usines électriques dans des aires potentiellement explosives –ElexV" [1.4]– en 1980 précisa un type de certificat pour les appareils électriques utilisés en zone 10 (depuis 01.07.2003 dans les zones 20 et 21).

Les appareils “protégés contre les explosions par la poussière”, dont la température superficielle reste au-dessous de la limite acceptable pour une couche de poussière d'une épaisseur standardisée de 5mm, peuvent, quand il existe un certificat officiel, devenir une source de danger si, contrairement aux conditions ils sont totalement couvert d'une épaisse couche de poussière.

## TIPOS DE PROTECCIÓN CONTRA IGNICIÓN

### TYPES OF IGNITION PROTECTION

### TYPES DE PROTECTIONS CONTRE L'IGNITION

#### Tipo de ignición “n”

La protección contra ignición n se puede aplicar únicamente para aparatos de la categoría 3, empleados en áreas clasificadas como potencialmente explosivas por gases. Como aquí no se considera la operación normal y no se contemplan fallos de equipo, se dan pocas diferencias en la designación del tipo de protección contra ignición:

- nA Equipo eléctrico antichispa (máquinas rotativas, fusibles, lámparas, indicadores y equipamiento de baja energía).
- nC Equipos con generación de chispa o altas temperaturas superficiales en condiciones operativas.
- nR Carcasa a prueba de vapores.
- nL Equipamientos y circuitos de baja energía.
- nP Carcasa contra sobrepresiones.

#### Ignition protection type “n”




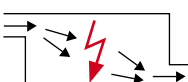
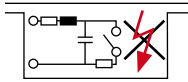



*Ignition protection type n is applicable for Category 3 operating devices used in areas rendered potentially explosive by gases. Because only normal operation and no equipment failures are considered here, small differences occur in the designation for ignition protection type:*

- nA Non-sparking electrical equipment (revolving machines, fuses, lamps, gauges and equipment with low energy).
- nC Sparking equipment or equipment with hot surface under operating conditions (dosed indexing mechanism and non-ignitable components, air-tight equipment, leak-proof sealed equipment).
- nR Vapour-proof casing.
- nL Equipment and circuit with limited energy.
- nP Simplified overpressure casing.

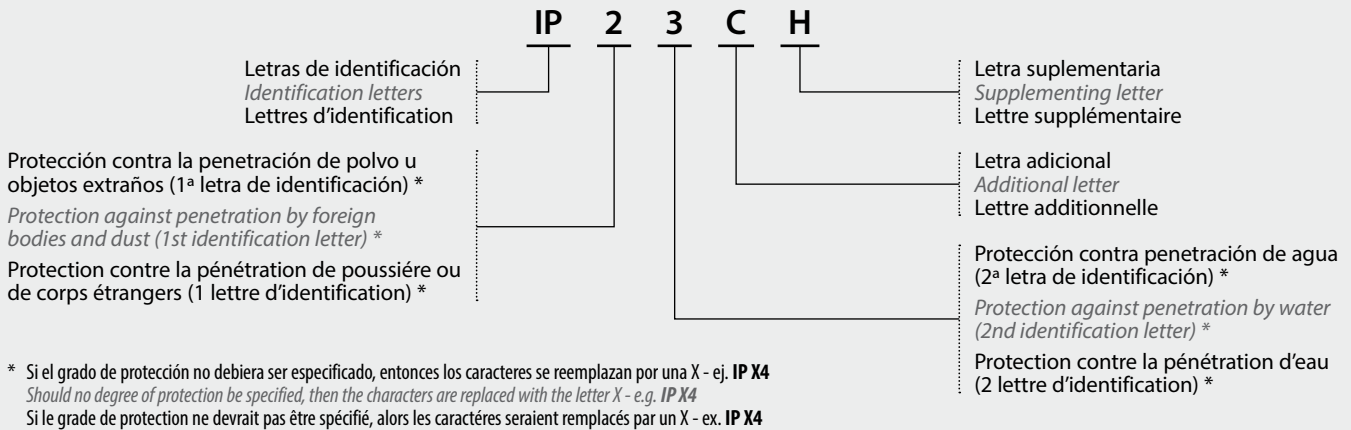
#### Type d'ignition “n”

La protección contra la ignición no puede ser aplicada únicamente para los aparatos de categoría 3, utilizados en áreas clasificadas como potencialmente explosivas por los gases. Como aquí, la operación no es considerada normal, y no tenemos en cuenta las fallas de los equipos, y hay pocas diferencias en la designación del tipo de protección contra la ignición:

- nA Equipamiento eléctrico anti-déflagrante (máquinas rotativas, fusibles, lámparas, indicadores y equipamiento de baja tensión)
- nC Equipamientos generadores de étincelas o de altas temperaturas superficiales en condiciones operativas.
- nR Carcasa a la prueba de los vapores.
- nL Equipamientos y circuitos de baja tensión.
- nP Carcasa contra las sobrepresiones.

| Forma de la protección contra ignición<br>Form of ignition protection<br>Forme de la protection contre l'ignition | Descripción esquemática<br>Schematic description<br>Description schématique                                                                                                                                                                                                                                                                                | Principio básico<br>Basic principle<br>Principe de base                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Standard                                         |
|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| General                                                                                                           |                                                                                                                                                                                                                                                                           | Precauciones generales de diseño y comprobación del material eléctrico diseñado para zonas Ex.<br><i>General provisions for the design and testing of electrical equipment which is designed for the ex range.</i><br>Dispositions générales pour le dessin et le test électrique équipement désigné par le Zone ex.                                                                                                                                                                                                                                                    | EN 50014                                         |
| Seguridad incrementada<br><i>Increased safety</i><br>Sécurité augmentée                                           | e                                                                                                                                                                                                                                                                         | Sólo se aplica a equipos o componentes que normalmente no generan arcos o chispas, no consiguen altas temperaturas y los voltajes principales no superan 1 kV.<br><i>Only applies to equipment or the components of which usually do not generate sparks or arcs, do not adopt dangerous temperatures and the mains voltage of which does not exceed 1 kV.</i><br>S'appliquent uniquement à des appareils ou des composants qui normalement ne génèrent pas d'arcs ni d'étincelles, n'arrivent pas à de hautes températures et à des voltage principaux inférieurs 1kV. | EN 50 019<br>IEC 60 079-7<br>FM 3600<br>UL 2279  |
| Carcasa a prueba de presión<br><i>Pressure-proof casing</i><br>Carcasse à l'épreuve de la pression                | d                                                                                                                                                                                                                                                                         | En caso de ignición dentro de la carcasa, la explosión es contenida en el interior.<br><i>In the case of an ignition inside the casing, the explosion is contained within the casing.</i><br>En cas d'ignition à l'intérieur de la carcasse, l'explosion est contenue.                                                                                                                                                                                                                                                                                                  | EN 50 018<br>IEC 60 079-1<br>FM 3620<br>UL 2279  |
| Presurización<br><i>Pressurisation</i><br>Préssurisation                                                          | p                                                                                                                                                                                                                                                                        | La fuente de ignición esta sellada por un gas protector de ignición bajo presión. La atmósfera medioambiental no puede introducirse en el gas protector de ignición.<br><i>Ignition source is sealed in by an ignition protection gas which a under overpressure (mind, 0,5 mbar) Ignition protection gas the environment atmosphere cannot enter.</i><br>La source d'ignition est isolée par un gaz protecteur sous pression. L'atmosphère du milieu-ambiant ne peut entrer en contact avec le gaz protecteur.                                                         | EN 50016<br>IEC 60 079-2<br>FM 3620<br>NFPA 496  |
| Seguridad intrínseca<br><i>Intrinsic safety</i><br>Sécurité intrinsèque                                           | i                                                                                                                                                                                                                                                                       | Se evitan arcos, chispas y altas temperaturas a través de la restricción en la energía del circuito.<br><i>By restriction of the energy in the circuit the development of inadmissibly high temperatures, ignition sparks and arcs are avoided.</i><br>On évite les arcs, les étincelles et les hautes températures au travers de la restriction de l'énergie du circuit.                                                                                                                                                                                               | EN 50 020<br>IEC 60 079-11<br>FM 3610<br>UL 2279 |
| Inmersión en aceite<br><i>Oil immersion</i><br>Immersion dans l'huile                                             | o                                                                                                                                                                                                                                                                       | El equipo o parte de él es sumergido en aceite, el cual los separa del ambiente.<br><i>Equipment or parts of the equipment are put into an oil casing - by which they are separated from the ex atmosphere.</i><br>Tout ou partie de l'équipement est immergé dans de l'huile, ce qui l'isole de l'air ambiant.                                                                                                                                                                                                                                                         | EN 50 015<br>IEC 60 079-6<br>FM 3600<br>UL 2279  |
| Relleno de polvo<br><i>Powder filling</i><br>Rempli de poussière                                                  | q                                                                                                                                                                                                                                                                       | La fuente de ignición esta encapsulada en arena de grano fino, lo que evita que el ambiente EX no pueda ser prendido por un arco.<br><i>Ignition source encased by fine-grained sand -the enviroment ex atmosphere cannot be ignited by an arc.</i><br>La source d'ignition est capsulée dans du sable très fin, ce qui évite que l'air ambiant EX ne puisse être atteint par un arc.                                                                                                                                                                                   | EN 50 017<br>IEC 60 079-18<br>FM 3600            |
| Encapsulación<br><i>Encapsulation</i><br>Capsulage                                                                | m                                                                                                                                                                                                                                                                       | Encapsulando la fuente de ignición en un material lechoso, no puede prender la atmósfera Ex.<br><i>By encapsulating the ignition source into a grouting material, it cannot ignite an ex atmosphere.</i><br>La source d'ignition est capsulée dans un matériau laiteux, elle ne peut être atteinte par l'atmosphère Ex.                                                                                                                                                                                                                                                 | EN 50 028<br>IEC 60 079-18<br>FM 3600<br>UL 2279 |
| No incendiaria<br><i>Non-incendive</i><br>Pas d'allumage                                                          | n <p>Zona 2.<br/>En esta forma de protección contra la ignición se combinan varios métodos de protección contra la ignición.<br/><i>Zone 2.<br/>In this form of ignition protection multiple methods of ignition are combined.</i><br/>Zone 2.<br/>Dans cet etui de protection contre l'ignition multiples methods d'ignition protection est combinée.</p> | Aplicación ligeramente simplificada de otras formas de protección contra la ignición de la zona 2 - "n" simboliza "no incendiaria".<br><i>Slightly simplified application of other zone-2 forms of ignition protection - "n" stands for "non-incendive".</i><br>Application très simple de une autre zone-2 forme of ignition protection - "n" stands for "non-incendive".                                                                                                                                                                                              | EN 50 021<br>IEC 60 079-15                       |

## GRADO DE PROTECCIÓN IP IP DEGREE PROTECTION IP GRADE DE PROTECTION



| 1ª letra ident<br>1st ident letter<br>1 lettre ident | Grado de protección<br>Degree of protection<br>Grade de protection                                                                                                                                                                                                                                                                                                           | Símbolo<br>Symbol<br>Symbole |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| 0                                                    | Sin protección. / No protection. / Sans protection.                                                                                                                                                                                                                                                                                                                          |                              |
| 1                                                    | Protección contra penetración de partículas extrañas de gran tamaño, 0>50 mm. Sin protección contra acceso intencionado. / Protection against penetration by large foreign bodies, 0>50 mm. No protection against intentional access. / Protection de pénétration de particules étrangères de grande taille, 0>50 mm. Sans protection contre une entrée volontaire.          |                              |
| 2                                                    | Protección contra penetración de partículas extrañas de pequeño tamaño 0>12,5 mm, exclusión de dedos u objetos similares. / Protection against small foreign bodies, 0>12,5 mm, exclusion of fingers or similar objects. / Protection contre la pénétration de particules étrangères de petite taille, 0>12,5 mm, exclusion faite de doigts ou objets similaires.            |                              |
| 3                                                    | Protección contra penetración de partículas extrañas de pequeño tamaño, 0>2,5 mm, exclusión de herramientas, cables u objetos similares. / Protection against small foreign bodies, 0>2,5mm, exclusion of tools, wires or similar objects. / Protection contre la pénétration de particules étrangères de petite taille, 0>2,5 mm, hors outils, cables ou objets similaires. |                              |
| 4                                                    | Protección contra partículas granulares, 0>1mm, exclusión de herramientas, cables u objetos similares. / Protection contre des particules granuleuses, 0>1mm, hors outils, cables ou objets similaires.                                                                                                                                                                      |                              |
| 5                                                    | Protección contra deposiciones de polvo (protección contra polvo), exclusión completa de acceso. / Protection against dust deposits (dustprotected), complete exclusion of access. / Protection contre des dépôts de poussières (protection contre poussière), totalement hermétique.                                                                                        |                              |
| 6                                                    | Protección total contra deposiciones de polvo (protección contra polvo), exclusión completa de acceso. / Totally protection against dust deposits (dust protected), complete exclusion of access. / Protection totale contre dépôts de poussière (protection contre poussière), complète exclusion d'accès.                                                                  |                              |

| 1ª letra ident<br>1st ident letter<br>1 lettre ident | Grado de protección<br>Degree of protection<br>Grade de protection                                                                                                                                                                                                                                     | Símbolo<br>Symbol<br>Symbole |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| 0                                                    | Sin protección. / No protection. / Sans protection.                                                                                                                                                                                                                                                    |                              |
| 1                                                    | Protección contra caída de agua cayendo de forma vertical. / Protection against drops of water falling vertically (water drop). / Protection contre la tombée d'eau de forme vertical.                                                                                                                 |                              |
| 2                                                    | Protección contra caída de agua en ángulo, inclinado a 15° de la posición normal de operación. / Protection against water falling at an angle (water drop), inclined at 15° to the normal operating position. / Protection contre des chutes d'eau, inclinées a 15° par rapport à la position normale. |                              |
| 3                                                    | Protección contra spray de agua, hasta 60° de la vertical. / Protection against water spray, up to 60° from the vertical. / Protection contre des brumisations, jusqu'à 60° de la verticale.                                                                                                           |                              |
| 4                                                    | Protección contra salpicaduras de agua desde cualquier dirección. / Protection against water splashes from any direction. / Protection de projections d'eau de toutes directions.                                                                                                                      |                              |
| 5                                                    | Protección contra chorro de agua desde cualquier dirección. / Protection against water jet from any direction. / Protection de jets d'eau provenant de toutes directions.                                                                                                                              |                              |
| 6                                                    | Protección contra mar ajetreado o fuerte chorro de agua (Protección contra inundaciones). / Protection against heavy sea or strong water jet (Flooding protection). / Protection contre une tempête ou un fort jet d'eau (Protection contre les inondations)                                           |                              |
| 7                                                    | Protección contra inmersión en agua a cierta presión durante cierto tiempo. / Protection against submersion in water at a certain pressure and for a certain period. / Protection contre immersion en l'eau à certaine pression et pendant certain temps.                                              |                              |
| 8                                                    | Protección contra inmersión en agua continua. / Protection against continuous submersion in water. / Protection totale contre une immersion dans l'eau.                                                                                                                                                |                              |

| Letra adicional<br>Additional letter<br>Lettre additionnelle | Significado (facultativo)<br>Significante (facultative)<br>Significatif (facultatatif) |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------|
| A                                                            | Parte posterior de la mano / Back of the hand / Partie postérieure de la main          |
| B                                                            | Dedo / Finger / Doigt                                                                  |
| C                                                            | Herramientas / Tools / Outils                                                          |
| D                                                            | Cable / Wire / Cable                                                                   |

| Letra suplementaria<br>Supplementing letter<br>Lettre supplémentaire | Significado (facultativo)<br>Significante (facultative)<br>Significatif (facultatatif) |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| H                                                                    | Aparato de alto voltaje / High voltage apparatus / Appareil de haut voltage            |
| M                                                                    | Máquina en marcha / Machine running / Machine en marche                                |
| S                                                                    | Máquina parada / Machine not running / Machine arrêtée                                 |
| W                                                                    | Condiciones meteorológicas / Weather conditions / Conditions météorologiques           |



## DIVISION POR ZONAS DIVISION INTO ZONES DIVISION PAR ZONES

### La seguridad es nuestra primera prioridad

En todos los lugares donde se produzcan, procesen, transporten o almacenen sustancias inflamables, la seguridad es extremadamente importante, especialmente en las industrias químicas y petroquímicas, en la producción de petróleo y gas natural y en la minería.

Con el objetivo de proveer el mayor nivel de seguridad, la mayoría de las legislaciones estatales han desarrollado leyes y regulaciones al respecto. En un entorno cada vez más globalizado, se han dado pasos importantes en la estandarización y puesta en común de las guías a seguir en la protección contra explosiones. Es la Unión Europea la que abanderó este camino. La directiva 94/9/EG supuso el comienzo hacia la unificación. Desde el 1 de julio de 2003 todos los aparatos deben estar aprobados según esta directiva.

#### Significado de la clasificación por zona:

- **Zona 0/20:** Peligro presente en todo momento, por largos periodos de tiempo o frecuentemente.
- **Zona 1/21:** Peligro presente ocasionalmente.
- **Zona 2/22:** Peligro presente de forma poco frecuente o por corto espacio de tiempo.

### Safety is our first priority

At all places where inflammable substances are produced, processed, transported or stored, safety is extremely important, especially in the chemical and petrochemical industry, in oil and natural gas production and in mining.

In order to provide the highest level of safety possible, most state's legislations have developed corresponding conditions in the form of laws, regulations and standards. In the course of globalisation, enormous progress could be made in uniform guidelines for explosion protection. It is the European Union that is leading the way. The 94/9/EG guideline lays the foundation for a complete unification. As of 01 July 2003, all new devices must be approved in accordance with this guideline.

#### Meaning of the zone classification:

- **Zone 0/20:** Danger is always present, for a long time or frequently.
- **Zone 1/21:** Danger is occasionally present.
- **Zone 2/22:** Danger is seldom present or present for a short time.

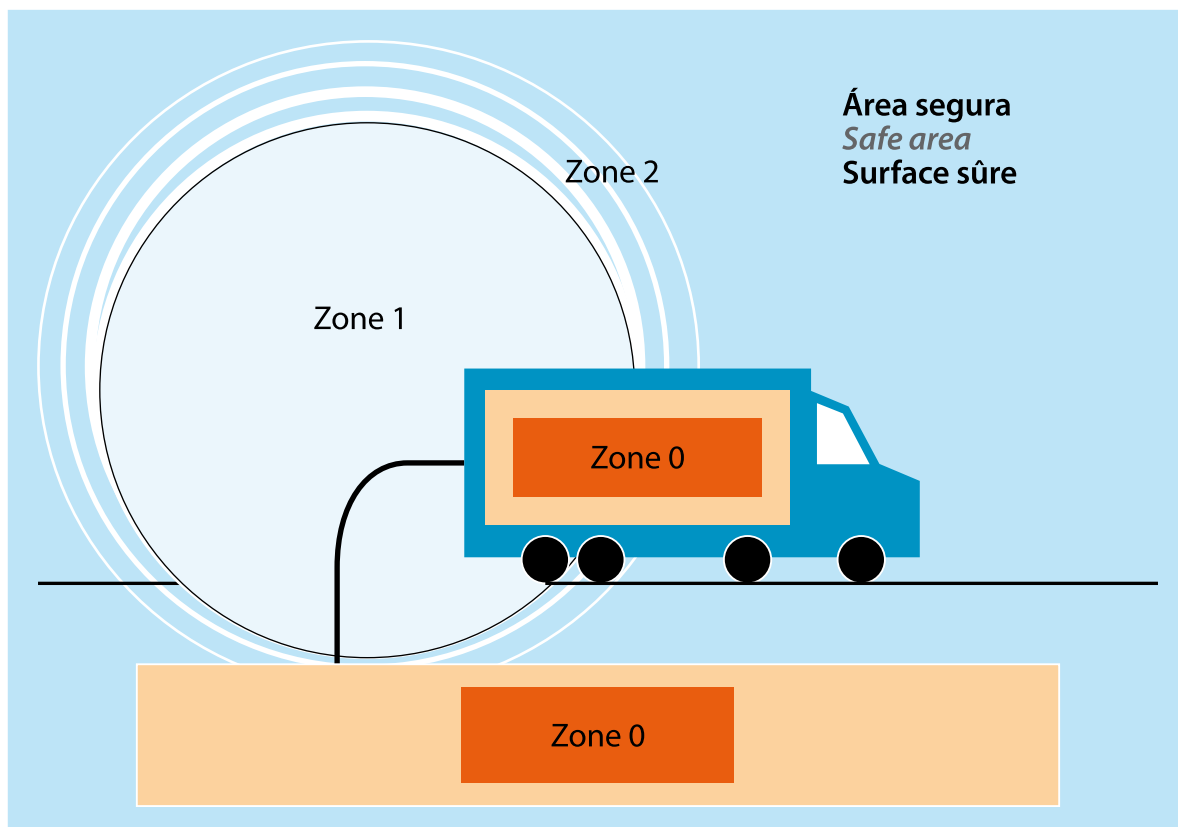
### La sécurité est notre première priorité

Dans tous les lieux où on produit, transforme, transporte ou emmagasine des substances inflammables, la sécurité est extrêmement importante, spécialement dans l'industrie chimique et pétrochimique, dans la production de pétrole et de gaz et dans les mines.

Ayant pour objectif d'atteindre le plus haut niveau de sécurité, la plus grande partie des législations étatiques, a développé des lois et des réglementations à ce sujet. Dans un environnement toujours plus globalisé, de grands pas ont été faits pour la normalisation et la mise en commun des chemins à suivre pour la protection contre les explosions. C'est l'Union Européenne qui a initié ce chemin. La directive 94/9/EG fut mise en oeuvre lors de l'unification. Depuis le 1<sup>er</sup> juillet 2003 tous les appareils doivent être approuvés suivant cette directive.

#### Signification de la classification par zone:

- **Zone 0/20:** Danger présent à tout moment, par longues ou fréquentes périodes.
- **Zone 1/21:** Danger présent occasionnellement.
- **Zone 2/22:** Danger présent peu fréquent ou sur de très courtes durées.



■ COMUNICACIÓN / COMMUNICATION / COMMUNICATION / KOMMUNIKATION / COMUNICAZIONE / COMUNICAÇÃO / СВЯЗЬ

**RADIOTRASMISOR INTRÍNSICAMENTE SEGURO**  
**INTRINSICALLY-SAFE TWO-WAY-RADIO**  
**RADIO-TRANSMETTEUR INTRINSÈQUEMENT SÛR**  
**EXPLOSIONSGESCHÜTZTES HANDFUNKGERÄT**  
**RADIOTRASMITTENTE INTRINSECAMENTE SICURO**  
**RÁDIO TRANSMISSOR INTRINSECAMENTE SEGURO**  
**ВЗРЫВОБЕЗОПАСНОЕ ДВУХКАНАЛЬНОЕ РАДИО**

■ MASTEREX 76897



**COMUNICACIÓN EN LAS ZONAS EX**

El Radiotransmisor MasterEX 76897 cumple con las últimas normas y puede usarse en áreas con evaluaciones de protección Ex II 2G Ex ib IIC T4 Gb en las Zonas 1 y 2, de acuerdo con las directivas ATEX.

Esta radio profesional opera en banda de frecuencia UHF 400-470 MHz. El poder de transmisión de la radio se ha limitado a 1 vatio por seguridad en el trabajo en las áreas potencialmente explosivas y la iniciación de llamadas a grandes distancias.

Además, el MasterEX 76897 cumple con IP68 y por consiguiente satisface las altas demandas industriales en robustez y fiabilidad, particularmente en áreas de riesgo Ex.

El MasterEx 76897 utiliza tecnologías analógicas y digitales DRM garantizando la compatibilidad con los sistemas de radio analógicos existentes y aprovechando los beneficios de las comunicaciones digitales.

El MasterEx 76897 es compatible con el modo digital Trabajador Solitario, Hombre Caído y Botón de Emergencia con interrupción de llamadas como funciones programables. Estos tres niveles de seguridad aseguran que se active una alarma, incluso si el canal ya está ocupado.

Todos los parámetros para las funciones del MasterEX 76897 pueden cómodamente ajustarse en un PC usando el juego de software correspondiente y también pueden salvarse para programar diversas unidades. El trabajo es así minimizando y se asegura que todas las radios armonizan entre sí.

**COMMUNICATION IN EX-AREAS**

*The Two-way-radio MasterEX 76897 meets the latest standards and can be used in areas with protection assessments Ex II 2G Ex ib IIC T4 Gb in Zone 1 and 2, according to the ATEX directives.*

*This professional radio operates in frequency band UHF 400-470 MHz. The radio's transmission power has been limited to 1 watt for safe working in potentially explosive areas and initiating calls even over large distances.*

*In addition, the MasterEX 76897 complies with IP68 and therefore satisfies high industrial demands on ruggedness and reliability, particularly in ex-hazardous areas.*

*The MasterEx 76897 utilizes both analogue and DMR digital technologies ensuring backwards compatibility with existing analogue radios and taking advantage of the benefits of digital communications.*

*The MasterEx 76897 supports digital mode Lone-Worker, Man-Down and Emergency Button with call interrupt as programmable features. These three levels of safety ensure an alarm is raised, even if the channel is already busy.*

*All parameters for the MasterEX 76897 functions may be comfortably set on a PC using the corresponding software kit and can also be saved for programming several units. Thus minimizing work and ensuring that all radios harmonize with each other.*

**COMMUNICATION DANS LES ZONES EX**

Le Radio-transmetteur MasterEX 76897 répond aux normes les plus récentes et est utilisable, conformément aux directives ATEX, avec un niveau de protection Ex II 2G Ex ib IIC T4 Gb, dans les zones 1 et 2.

Cet appareil de radiocommunication professionnel fonctionne sur bande de fréquence UHF 400-470 MHz. La puissance d'émission de ce portatif radio est limitée à 1 watt, vous permettant ainsi de travailler en toute sécurité en zones explosibles et d'établir des connexions radio également sur de longues distances.

Le MasterEX 76897 répond en outre à l'indice de protection IP68 et satisfait ainsi aux exigences industrielles élevées en termes de robustesse et de fiabilité, particulièrement en zones explosibles.

Le MasterEx 76897 utilise des technologies analogiques et numériques DRM pour assurer la compatibilité avec les systèmes radio analogiques existants et tirer parti des avantages des communications numériques.

Le MasterEx 76897 prend en charge le mode numérique Travailleur solitaire, Travailleur à terre et Bouton d'urgence avec interruption d'appel comme fonctions programmables. Ces trois niveaux de sécurité assurent le déclenchement d'une alarme, même si le canal est déjà occupé.

Tous les paramètres des fonctions du MasterEX 76897 se règlent confortablement sur PC à l'aide du kit logiciel et peuvent être mémorisés pour la programmation d'autres appareils. Cela vous permet de gagner du temps et de vous assurer que tous les portatifs fonctionnent à l'unisson.

■ COMUNICACIÓN / COMMUNICATION / COMMUNICATION / KOMMUNIKATION / COMUNICAZIONE / COMUNICAÇÃO / СВЯЗЬ

Zonas / Zones

1, 2 GAS / GAZ

\* 12M

COD.

76897



■ MASTEREX 76897

El MasterEx 76897 es un radiotransmisor para la comunicación inalámbrica en las zonas EX.

- 16 canales

Datos Ex:

Denominación Ex:

Ⓢ II 2G Ex ib IIC T4 Gb

Certificado del tipo de examinación:

Baseefa18ATEX0152X

Accesorios opcionales:

Cable programación 76529

The MasterEx 76897 is a license and charge-free two-way radio for wireless communication in Ex-hazardous areas.

- 16 channels

Ex-data:

Ex-designation:

Ⓢ II 2G Ex ib IIC T4 Gb

Type examination certificate:

Baseefa18ATEX0152X

Optional accessories:

Programming cable 76529

Le MasterEx 76897 est un radiotransmetteur pour la communication inalámbrica dans les zones EX.

- 16 canaux

Renseignements Ex:

Désignation Ex

Ⓢ II 2G Ex ib IIC T4 Gb

Certificat du type de test:

Baseefa18ATEX0152X

Accessoires options:

Câble de programmation 76529

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

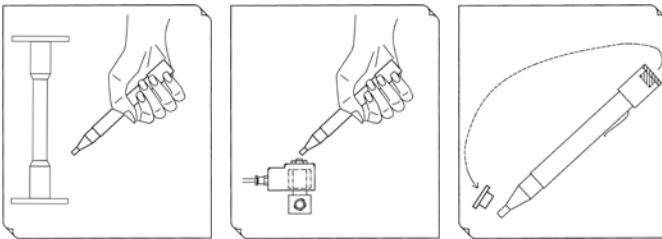
|                                                                       |                                                                                                                     |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Rango de frecuencia / Frequency range / Eventail de fréquences        | UHF 400 - 470 MHz                                                                                                   |
| Canales / Channels / Canaux                                           | 16                                                                                                                  |
| Anchura de canal / Channel spacing / Longueur de canal                | 12,5 - 25 KHz                                                                                                       |
| Batería / Battery / Batterie                                          | Litio, 1800 mA/h<br>Lithium, 1800 mA/h<br>Lithium, 1800 mA/h                                                        |
| Voltaje operativo / Operating voltage / Tension de fonctionnement     | 7,4 V                                                                                                               |
| Protección IP / IP protection / Protection IP                         | IP68                                                                                                                |
| Temperatura de trabajo / Working temperatura / Température de travail | -20 °C ~ +55 °C                                                                                                     |
| Autonomía / Autonomy / Autonomie                                      | Digital: 18,5 h - Analógico: 14,5 h<br>Digital: 18,5 h - Analogue: 14,5 h<br>Numérique: 18,5 h - Analogique: 14,5 h |
| Designación ATEX / ATEX marking / Marquage ATEX                       | Ⓢ II 2G Ex ib IIC T4 Gb                                                                                             |
| Dimensiones / Dimensions / Dimensions                                 | 138(H) x 60(W) x 38(D)                                                                                              |
| Peso / Weight / Poids                                                 | 280 g (9,8 oz)                                                                                                      |

■ ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACCESSORIOS / ЗАПАСНЫЕ ЧАСТИ

| COD.  | Descripción / Description / Description | Válido para / Valid for / Valable pour |
|-------|-----------------------------------------|----------------------------------------|
| 76531 | Batería / Battery / Batterie            | 76897                                  |



■ MEDICIÓN / MEASURING / MESURE / MESSEN / MISURE / MEDIÇÃO / ИЗМЕРЕНИЯ



**TESTER MAGNÉTICO INTRÍNSECAMENTE SEGURO**  
**INTRINSICALLY SAFE MAGNET PROBE**  
**TESTEUR DE MAGNÉTISME INTRINSÈQUEMENT SÛR**  
**EX-SICHERES MAGNETTESTER**  
**TESTER MAGNÉTICO INTRINSECAMENTE SICURO**  
**TESTER MAGNÉTICO INTRINSECAMENTE SEGURO**  
**ВЗРЫВОБЕЗОПАСНЫЙ МАГНИТНЫЙ ПРОБНИК**

■ MASTEREX 79784

MasterEx 79784 es un medidor magnético tamaño lápiz, diseñado para detectar campos magnéticos en áreas peligrosas. En pocos segundos es capaz de detectar cualquier solenoide que esté eléctricamente activada.

No es necesario una conexión al circuito eléctrico o abrir una caja de terminales.

La alta sensibilidad del punto del tester de MasterEx 79784 provoca que sólo con acercarse a la bobina del solenoide, si ésta muestra una luz roja, indica que el campo magnético está activado. De la misma manera esta prueba se puede efectuar cerca sobre fluxómetros u otros equipamientos que trabajen magnéticamente, incluso cuando estén localizadas en áreas peligrosas.

El MasterEx 79784 viene integrado con un imán de seguridad para que no pueda ser perdido con facilidad. Usando este imán, la prueba se puede efectuar para conocer el estado de trabajo de la unidad y de las baterías.

Después de cualquier chequeo el MasterEx 79784 se apagará automáticamente si no es utilizado durante un tiempo. Esto asegura una larga vida de las baterías.

El clip incluido en un lado del aparato lo asegura por si hay pérdidas accidentales y permite al ingeniero llevarlo todo el tiempo con facilidad.

MasterEx 79784 is a pen-sized magnet probe, designed to detect magnetic fields in hazardous areas. Within seconds it is possible to detect whether or not a solenoid valve is electrically activated.

Connection to electronic circuitry or opening of terminal boxes is rendered unnecessary.

The highly sensitive probe point of the MasterEx 79784 only needs to be brought near the coil of a solenoid valve, if the probe shows a red light this indicates that the magnet is activated. In the same manner tests can be carried out on flowmeters or any other equipment that is working magnetically, even when located in hazardous areas.

The MasterEx 79784 comes with an integral test magnet that is securely fit in such a way that it cannot be easily lost. Using this magnet, tests can be carried out to establish the working state of both unit and batteries.

After any check the MasterEx 79784 will automatically switch off if it is no longer being used. This ensures a long battery life.

The clip attached to the instrument's side secures it from accidental loss and allows the maintenance engineer to easily carry it at all times.

MasterEx 79784 est un mesureur de magnétisme de la grandeur d'un stylo, dessiné pour détecter des champs magnétiques dans des zones dangereuses. En peu de secondes il est capable de détecter quelconque solénoïde qui est activé électriquement.

Il n'y a pas besoin de connexion au circuit électrique ou d'ouvrir le coffret de terminaux.

La grande sensibilité de la pointe du testeur MasterEx 79784 permet de détecter à l'approche de la bobine du solénoïde, par l'allumage d'une lumière rouge, que le champ magnétique est activé. De la même manière ce test peut s'effectuer près d'un fluxomètre ou d'autres équipements qui travaillent magnétiquement y compris quand ils sont dans des zones dangereuses.

El MasterEx 79784 est fourni avec un aimant de sécurité intégré pour qu'il ne se perde pas facilement. En utilisant cet aimant, le test peut s'effectuer pour connaître l'état de travail de l'unité et des batteries.

Après tout contrôle le MasterEx 79784 s'éteindra automatiquement s'il n'est pas utilisé durant un certain temps. Cela assure une meilleure durée de vie aux piles.

Le clip du côté de l'appareil est une sécurité contre la perte et permet à l'utilisateur de le porter facilement.

■ MEDICIÓN / MEASURING / MESURE / MESSEN / MISURE / MEDIÇÃO / ИЗМЕРЕНИЯ

Zonas / Zones

1, 2 GAS / GAZ



\* 12M

COD.

79784

■ MASTEREX 79784

Para solenoides, transformadores, fluxómetros, relés en áreas peligrosas.

Propiedades:

- Alta sensibilidad
- No es necesario contacto con el objeto
- Resistente a la suciedad
- Indicador óptico

Datos Ex:

Designación Ex:

⊕ Ib IIB T3 Gb

EC-Certificado de Conformidad:

PTB 01 ATEX 2018

For testing solenoid valves, relays, transformers and flow-meters in Ex-hazardous areas.

Properties:

- Highly sensitive
- No contact with test object required
- Resistant to dirt
- Indication: optical

Ex-data:

Ex designation:

⊕ Ib IIB T3 Gb

EC-Certificate of Conformity:

PTB 01 ATEX 2018

Pour des solénoïdes, transformateurs, fluxomètres, réseaux dans des zones dangereuses.

Propriétés:

- Haute sensibilité
- Le contact avec l'objet n'est pas nécessaire
- Résistant à la saleté
- Indicateur: optique

Renseignements Ex:

Désignation Ex:

⊕ Ib IIB T3 Gb

EC-Certificat de conformité

PTB 01 ATEX 2018

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

Campos magnéticos detectables / Detectable magnetic fields / Champs magnétiques détectables

Alternos, directos, continuos  
Alternating, direct and permanent fields  
Alternés, directs, continus

Detección / Detection / Détection

No hay contacto con el objeto  
No contact with test object required  
Pas de contact avec l'objet

Indicación / Indication / Indication

Óptica: LED  
Optical, built-in LED  
Optique LED

Sensibilidad / Sensitive / Sensibilité

≥ 30 mT (millitesla)

Alimentación de energía / Power supply / Alimentation d'énergie

2 baterías estándar AAA de acuerdo al IEC LR03, NiCd bat. recargables  
2 x standard batteries AAA according to IEC LR03 or NiCd rechargeable batteries  
2 Piles standards AAA conforme á IEC LR03, NiCd bat. rechargeables

Clase de protección / Protection class / Classe de protection

IP54

Designación ATEX / ATEX marking / Marquage ATEX

⊕ Ib IIB T3 Gb

Material de la carcasa / Casing material / Matière de la coque

Metal/punto de prueba plástico  
Metal/plastic probe point  
Métal/poinde de test plastique

Temperatura de trabajo / Working temperature / Température de travail

-20 °C ... +50 °C

Temperatura de almacenaje / Storage temperature / Température de stockage

-40 °C ... +60 °C

Dimensiones / Dimensions / Dimensions

150 x Ø18 mm

Peso / Weight / Poids

60 g (Baterías incluidas)  
60 g (Included batteries)  
60 g (Piles incluses)

■ MEDICIÓN / MEASURING / MESURE / MESSEN / MISURE / MEDIÇÃO / ИЗМЕРЕНИЯ



**MEDIDOR DE TEMPERATURA SIN CONTACTO**  
**INTRINSICALLY-SAFE NON-CONTACT TEMPERATURE METER**  
**THERMOMÈTRE À DISTANCE SANS CONTACT**  
**EX-SICHERES BERÜHRUNGSLOSES TEMPERATURÜESSGERÄT**  
**MISURATORE DI TEMPERATURA SENZA CONTATTO**  
**TERMÓMETRO SEM CONTACTO**  
**ВЗРЫВОБЕЗОПАСНЫЙ БЕЗКОНТАКТНЫЙ ТЕРМОМЕТР**

■ MASTEREX 79502

El equipo MasterEx 79502 para mediciones de temperatura sin contacto intrínsecamente seguro es un robusto instrumento fácil y manejable en áreas peligrosas.

*The intrinsically-safe non-contact temperature measuring equipment MasterEx 79502 is a robust yet exceedingly handy and easy to use instrument for temperature measuring in hazardous areas.*

Le thermomètre à distance MasterEx 79502 intrinsèquement sécuritaire est un robuste et très petit appareil manuable pour mesurer les températures dans des zones à risque

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                               |                                                                                                         |
|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Rango de temperatura / Temperature range / Echelle de température                             | -18 °C - +400 °C (0 °F - +752 °F)                                                                       |
| Protección IP / IP protection / Protection IP                                                 | IP2X                                                                                                    |
| Tiempo de respuesta / Response time / Temps de réponse                                        | 500 ms                                                                                                  |
| Emisibilidad / Emissivity / Emission                                                          | Ajuste 0,95<br>Preset 0,95<br>Preset 0,95                                                               |
| D/L óptico / Optics D/L / Optique D/L                                                         | = 1/8                                                                                                   |
| Respuesta espectral / Spectral response / Réponse spectrale                                   | 7-18 µm                                                                                                 |
| Rango ambiental de operación / Ambient operating range / Champ d'action ambiant               | 0 °C...+50 °C                                                                                           |
| Rango de temperaturas de almacenamiento / Storage temperature range / Température de stockage | -20 °C... +65 °C                                                                                        |
| Humedad relativa / Relative humidity / Humidité relative                                      | 10-95% (>30 °C) sin condensación<br>10-95% (>30 °C) non condensing<br>10-95% (>30 °C) sans condensation |
| Alimentación de energía / Power supply / Alimentation d'énergie                               | 9 V alkaline - IEC 6LR61                                                                                |
| Resolución / Resolution / Résolution                                                          | 0,2 °C                                                                                                  |
| Señalización del objetivo / Target sighting / Pointage de la cible                            | Laser (Tipo II)<br>Laser (Class II)<br>Laser (Type II)                                                  |
| Precisión (a 23 °C) / Accuracy (at 23 °C) / Exactitude (à 23 °C)                              | -18 °C...-1 °C ±3 °C - 1 °C...+400 °C ±2 °C or ±2%                                                      |
| Repetibilidad / Repeatability / Répétabilité                                                  | ±2 °C / 2%                                                                                              |
| Designación ATEX / ATEX marking / Marquage ATEX                                               | Ⓔ II 2 G Ex ia op is IIC T4 0°C<Ta<50°C                                                                 |
| Dimensiones / Dimensions / Dimensions                                                         | 150 x 100 x 38 mm                                                                                       |
| Peso / Weight / Poids                                                                         | 200 g                                                                                                   |

\* 12M: GARANTÍA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

■ MEDICIÓN / MEASURING / MESURE / MESSEN / MISURE / MEDIÇÃO / ИЗМЕРЕНИЯ

Zonas / Zones

1, 2 GAS / GAZ



\* 12M

COD.

79502

■ MASTEREX 79502

**Beneficios de la medición sin contacto**

Aumenta la seguridad cuando se determina la temperatura a objetos en movimiento o sin antenas. Significa que el calor por fricción no afecta a la medición. No deja marcas ni imperfecciones al ser el objeto medido.

**Tiempo de respuesta**

Rápida y exacta. La respuesta pirométrica que emite energía es de 20 a 1000 veces más rápida que los termómetros tradicionales de contacto directo.

**Para mediciones de temperatura sin contacto y monitorización de temperatura en áreas peligrosas**

- Gran exactitud
- Operaciones simples
- Rápida respuesta
- Señalización del objeto por láser
- Medida en la Zona 1 y 2

**Datos Ex:**

**Designación Ex:**

Ⓢ II 2 G Ex ia op is IIC T4 0°C < Ta < 50°C

**EC-Certificado de continuidad:**

EPS 10 ATEX 1 242X

**Bajo mantenimiento y no agresivo**

- El procedimiento no afecta a la temperatura del objeto que está siendo medido.
- El hecho de que no haya contacto del detector significa que no hay riesgo por contacto.
- No es necesario fijar o sujetar puntos sobre el objeto o el equipo.

**Para alcanzar objetivos difíciles y objetos en movimiento**

- La óptica del pirómetro se dirige al objeto que va a medir y con la señal de láser es posible apuntar objetos pequeños y distantes.
- Los materiales peligrosos y agresivos pueden ser medidos con seguridad sin miedo a dañar el equipo. El tamaño compacto del pirómetro permite que se pueda usar incluso en posiciones de mucha dificultad, sólo es necesario que exista una línea clara desde la señal al objetivo. Con la medición por contacto directo la capacidad de calor o la conducción de calor del objeto puede transferir un escaso flujo de calor al aparato de medida.

**The benefits of non-contact measurement**

Increased safety when determining the temperature of fast moving objects. No antennas mean that frictional heat cannot affect the measurement. No mark or blemish is left on the object being measured.

**Response time**

Fast and accurate. Pyrometers respond to emitted energy and are around 20 to 1000 times quicker than traditional direct contact thermometers.

**For non-contact temperature measurement and monitoring of temperature processes in Ex-hazardous areas**

- High accuracy
- Simple operation
- Quick response time
- Laser target sighting
- Measure in Zone 1 and 2

**Ex-data:**

**Ex designation:**

Ⓢ II 2 G Ex ia op is IIC T4 0°C < Ta < 50°C

**EC-Certificate of Conformity:**

EPS 10 ATEX 1 242X

**Low maintenance and non invasive**

- The temperature of the object being measured is not affected by the procedure.
- Non contact of the detector means no wear and tear.
- No fixing or fastening points required on either the object or equipment.

**Hard to reach objects and moving materials**

- The optics of the pyrometer are aimed at the object to be measured and with the laser sighting it is possible for both small and distant objects to be targeted.
- Hazardous and aggressive materials can be safely measured - and without fear of damaging the equipment. The compact size of the pyrometer allows it to be used in even the most awkward positions, with only a clear line of sight to the target area being required. With direct contact measurement, poor heat conduction or heat capacity of the object can prevent insufficient heat flow to a measuring device.

**Les bénéfices d'un appareil de mesure à distance**

Il augmente la sécurité lors de la mesure d'objets mobiles. Les antennes n'empêchent pas la prise de température. Pas de marque, ni de défaut ne peuvent gêner la mesure.

**Temps de réponse**

Rapide et précise. Les pyromètres répondent à l'énergie dégagée et sont plus rapides entre 20 à 1000 fois que les traditionnels thermomètres de contact.

**Pour une mesure de température à distance en évitant le contact avec l'appareil de test dans les zones à risques**

- Grande exactitude
- Simple d'utilisation
- Réponse rapide
- Pointage de la cible par laser
- Mesure en zone 1 et 2

**Renseignements Ex:**

**Ex designation:**

Ⓢ II 2 G Ex ia op is IIC T4 0°C < Ta < 50°C

**EC-Certificat de conformité:**

EPS 10 ATEX 1 242X

**Petit entretien et sans intervention**

- La température de l'objet étant mesurée elle n'est pas affectée.
- L'absence de contact fait éviter l'usure et les accrocs.
- Aucune fixation n'est nécessaire pour chacun des objets ou équipements.

**Difficulté d'atteindre des objets ou des matériaux en mouvement**

- Les optiques du pyromètre pointent l'objet à mesurer et avec la vise laser il est possible de pointer des objets petits et distants.
- Des matériaux à risque peuvent être mesurés en sécurité sans dommage pour l'équipement. La forme compacte du pyromètre lui permet une utilisation dans les positions les plus inconfortables avec une visée claire. Avec une mesure par contact, la faible chaleur de conduction ou de potentiel de l'objet peuvent empêcher une bonne mesure.

■ ILLUMINACIÓN / LIGHTING / ÉCLAIRAGE / BELEUCHTUNG / ILLUMINAZIONE / ILUMINAÇÃO / ОСВЕЩЕНИЕ

**FOCO LED INTRÍNECAMENTE SEGURO**  
**INTRINSICALLY SAFE LED HAND LAMP**  
**PROJECTEUR LED INTRINSÈQUEMENT SÛR**  
**EIGENSICHERE LED-HANDLEUCHTE**

**RIFLETTORE A LED INTRÍNECAMENTE SICURO**  
**HOLOFOTE LED INSTRINSECAMENTE SEGURO**  
**ВЗРЫВОЗАЩИЩЕННЫЙ СВЕТОДИОДНЫЙ ФОНАРЬ**

■ MASTEREX 79360 & 77780



Los focos LED MasterEx 79360 y 77780 están especialmente diseñados para la iluminación de grandes espacios en zonas Ex. Las dos posiciones de intensidad del LED (50% y 100%) permiten adaptar la intensidad de la luz emitida. Los focos son aptos para su uso en zonas 1 y 21.

El cuerpo permite una rotación de 180° facilitando la orientación del haz luminoso.

El cable de 10 m facilita el movimiento del foco desde la toma de corriente hasta la zona de trabajo.

Su carcasa de fundición de aluminio le confiere una gran resistencia y protección, asegurando su funcionamiento incluso en las condiciones de uso más extremas.

Además el asa en la carcasa permite un transporte del foco cómodo y seguro.

El foco LED MasterEx 77780 está especialmente indicado para los ambientes explosivos en los que se necesita una potente iluminación pero se carece de una toma eléctrica cercana.

Su batería de litio ofrece una autonomía de hasta 4 horas con una sola carga.

*The MasterEx 79360 and 77780 hand lamps are specially designed to (illuminate) light large spaces in hazardous areas. The two LED modes (50% and 100% output) allow to adapt the intensity of the emitted light. The lamps are suitable for use in zones 1 and 21.*

*It is possible to rotate the body 180° in order to guide the light beam.*

*The 10 m length cable facilitates the movement of the hand lamp from the electric supply to the working area.*

*Its die casted aluminum housing grants it a huge resistance and protection, assuring the correct functioning even in the hardest conditions.*

*The handle on the housing allows the transport of the lamp in an easy and safer way.*

*The MasterEx 77780 is specially indicated for the hazardous areas in which is necessary a powerful illumination but there is no electric supply. Its lithium battery assures 4 h of usage with one charge.*



Les projecteurs LED MasterEx 79360 & 77780 ont été spécialement conçus pour l'éclairage des grands espaces en zones Ex. Les deux positions du LED (50% et 100%) permettent d'adapter l'intensité de la lumière qui en jaillit. Les projecteurs sont adaptés pour un usage en zones 1 et 21.

Le corps permet une rotation de 180°, ce qui facilite l'orientation du projecteur lumineux.

Le câble de 10m facilite le maniement de la lampe, de la prise de courant jusqu'à la zone de travail.

Le boîtier en fonte d'aluminium permet une meilleure résistance et protection, qui assure son fonctionnement optimal dans les conditions d'utilisation plus extrêmes.

De plus, la poignée permet un maniement plus sûr et confortable.

Le projecteur LED MasterEx 77780 est spécialement adapté pour les environnements explosifs dans lesquels il y a besoin d'un éclairage puissant mais sans prise électrique proche. Sa batterie lithium offre une autonomie allant jusqu'à 4 heures, avec une seule charge.

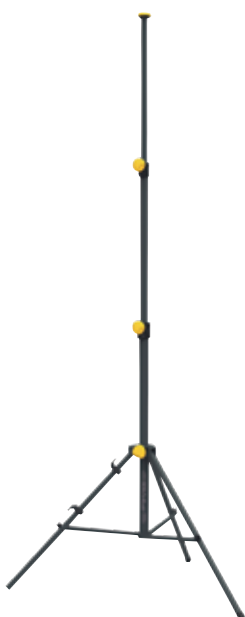
■ ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ

| COD.  | Descripción / Description / Description | O.D. mm | Kg  |
|-------|-----------------------------------------|---------|-----|
| 79670 | Tripode / Tripod / Trépied              | 1200    | 6,0 |

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                             |          |
|-----------------------------------------------------------------------------|----------|
| Soporte / Support / Support                                                 | 1,35-3 m |
| Máx. capacidad de carga / Max. weight capacity / Capacité maximum de charge | 10 kg    |

\* 12M: GARANTÍA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ





■ ILLUMINACIÓN / LIGHTING / ÉCLAIRAGE / BELEUCHTUNG / ILLUMINAZIONE / ILUMINAÇÃO / ОСВЕЩЕНИЕ

Zonas / Zones

1, 2 GAS / GAZ  
21-22 POLVO / DUST / POUSSIÈRE



\* 12M

COD.

|       |                                                                |
|-------|----------------------------------------------------------------|
| 79360 | Con toma eléctrica / Outlet with cable / Avec prise électrique |
| 77780 | Litio / Lithium / Lithium                                      |



Cable de carga (para el cod. 77780)

- Longitud: 5 m
- Alimentación: 100-240 V 50/60 Hz con enchufe europea
- Peso: 460 g

Charging cable (for cod. 77780)

- Length: 5 m
- Power supply: 100-240 V 50/60 Hz with european plug
- Weight: 460 g

Câble de charge (pour le code 77780)

- Longueur: 5 m
- Alimentation: 100-240 V 50/60 Hz avec prise européenne
- Poids: 460 g

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                         |       |                                                                         |
|---------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------|
| LED con 2 posiciones / 2 mode LED / LED avec deux positions                                             |       | 100% & 50%                                                              |
| Luminosidad / Brightness / Luminosité                                                                   |       |                                                                         |
|                                                                                                         | 79360 | 3400/1700 lm                                                            |
|                                                                                                         | 77780 | 4000/2000 lm                                                            |
| Potencia / Power / Puissance                                                                            |       |                                                                         |
|                                                                                                         | 79360 | 35 W                                                                    |
|                                                                                                         | 77780 | 31 W                                                                    |
| Ciclo de vida / Lifecycle / Cycle de vie                                                                |       | >=50000 h                                                               |
| Alimentación / Power / Poids                                                                            |       | 100-240 V - 50/60 Hz                                                    |
| Longitud del cable / Cable length / Longueur du cable                                                   |       |                                                                         |
|                                                                                                         | 79360 | 10 m                                                                    |
|                                                                                                         | 77780 | 5 m                                                                     |
| Grado de protección / Ingress protection / Grade de protection                                          |       | IP65                                                                    |
| Carcasa / Housing / Carcasse                                                                            |       | Fundición de aluminio<br>Aluminum casting<br>Fonte en Aluminium         |
| Posicionamiento / Positioning / Positionnement                                                          |       | Giratorio 180° / 180° rotation / Rotatif 180°                           |
| Asa de transporte en la carcasa / Transport handle in the housing / Poignée de transport sur le boîtier |       | •                                                                       |
| Batería / Battery / Batterie                                                                            |       |                                                                         |
|                                                                                                         | 79360 | -                                                                       |
|                                                                                                         | 77780 | 21,6 V / 3350 mAh Lithium                                               |
| Tiempo de carga / Charge time / Temps de recharge                                                       |       |                                                                         |
|                                                                                                         | 79360 | -                                                                       |
|                                                                                                         | 77780 | 4 h                                                                     |
| Indicador de carga / Charging indicator / Indicateur de charge                                          |       |                                                                         |
|                                                                                                         | 79360 | -                                                                       |
|                                                                                                         | 77780 | •                                                                       |
| Cable de carga incluido / Charging cable included / Câble de recharge fourni                            |       |                                                                         |
|                                                                                                         | 79360 | -                                                                       |
|                                                                                                         | 77780 | •                                                                       |
| Autonomía / Autonomy / Autonomie                                                                        |       |                                                                         |
|                                                                                                         | 79360 | -                                                                       |
|                                                                                                         | 77780 | 2 h - 4 h                                                               |
| Designación ATEX / ATEX marking / Marquage ATEX                                                         |       | Ⓜ II 2G Ex db eb mb op is IIC T4 Gb<br>Ⓜ II 2D Ex tb IIIC T85°C Db IP65 |
| Dimensiones / Dimensions / Dimensions                                                                   |       |                                                                         |
|                                                                                                         | 79360 | 230 x 230 x 110 mm                                                      |
|                                                                                                         | 77780 | 270 x 260 x 130 mm                                                      |
| Peso / Weight / Poids                                                                                   |       |                                                                         |
|                                                                                                         | 79360 | 4,5 kg                                                                  |
|                                                                                                         | 77780 | 4,3 kg                                                                  |

■ ILUMINACIÓN / LIGHTING / ÉCLAIRAGE / BELEUCHTUNG / ILLUMINAZIONE / ILUMINAÇÃO / ОСВЕЩЕНИЕ

**LINTERNA PARA INSPECCIÓN INTRÍNECAMENTE SEGURA**  
**INTRINSICALLY SAFE INSPECTION LAMP**  
**TORCHE D'INSPECTION INTRINSÈQUEMENT SÛRE**  
**EIGENSICHERE KONTROLLAMPE**

**TORCIA PER ISPEZIONE INTRINSECAMENTE SICURA**  
**LANTERNA DE INSPEÇÃO INTRINSECAMENTE SEGURA**  
**ВЗРЫВОЗАЩИЩЕННЫЙ ФОНАРЬ ДЛЯ ОСМОТРОВ**

■ **MASTEREX 79731**



La linterna LED MasterEx 79731 resulta idónea para iluminar zonas de trabajo en ambientes explosivos peligrosos. Su batería de litio proporciona una autonomía de hasta 6 h, y está diseñada específicamente para resistir las condiciones industriales de trabajo diario. Resulta una opción ideal para su uso en ambientes explosivos peligrosos.

Sus dos focos LED permiten una iluminación adecuada en todas las condiciones de utilización. El LED frontal tiene dos modos de intensidad, proporcionando de 150 a 300 lumens. El LED superior emite un haz de luz de 100 lumens.

Ya sea fijada mediante la base magnética o colgada a través de su gancho de 360°, su diseño permite el posicionamiento adecuado para iluminar las zonas de trabajo sin necesidad de sujetarla manualmente. El clip trasero permite al usuario su cómodo transporte.

El indicador de carga en la parte trasera informa del estado de la batería.

Su carcasa de plástico antiestático le confiere un alto grado de protección mientras que facilita un agarre seguro y comfortable.

*The MasterEx 79731 inspection lamp is the ideal solution for illuminating working zones in hazardous areas. Its lithium battery provides a 6 h usage and it is specially designed to stand the daily industrial working conditions. It is the best solution for the hazardous areas.*

*Its two LED lights allow a proper illumination for all the working conditions. The front LED has two output modes, providing 150 to 300 lumen. The top LED gives a 100 lumen beam.*

*Its design allows proper positioning to illuminate working areas with no need to hold it manually by its magnetic holder or the 360° hanging hook. The clip in the rear allows an easy transport.*

*The charge indicator in the back side of the lamp provides information about the charge status.*

*Its antistatic plastic housing grants a high protection grade as well as permits the handling of the lamp.*

La lampe LED MasterEx 79731 est idéale pour éclairer les zones de travail en environnements explosifs et dangereux. Sa batterie lithium offre jusqu'à 6 heures d'autonomie, et a été conçue pour résister aux conditions industrielles de travail au quotidien. C'est le matériel idéal pour une utilisation en environnements explosifs et dangereux.

Ses deux projecteurs LED permettent un éclairage optimal quelque soient les conditions d'utilisation. Le LED frontal est configuré à deux modes d'intensité allant de 150 à 300 lumens. Le LED supérieur émet un projecteur lumineux de 100 lumens.

Qu'elle soit fixée sur une base magnétique ou suspendue à un crochet de 360°, son élaboration permet un positionnement optimal pour éclairer las zones de travail sans avoir besoin de la porter à la main. Le clip au dos permet à l'utilisateur de la transporter sans gêne.

L'indicateur de charge au dos indique l'état de la batterie.

Son boîtier en plastique antistatique lui confère un niveau de protection élevé, ainsi qu'une facilité de transport plus sûre et comfortable.



■ ILLUMINACIÓN / LIGHTING / ÉCLAIRAGE / BELEUCHTUNG / ILLUMINAZIONE / ILUMINAÇÃO / ОСВЕЩЕНИЕ

Zonas / Zones

1, 2 GAS / GAZ  
21-22 POLVO / DUST / POUSSIÈRE



\* 12M

COD.

79731

Litio / Lithium / Lithium

■ MASTEREX 79731

■ ACCESORIOS INCLUIDOS: / INCLUDED ACCESSORIES: / ACCESSOIRES INCLUS:

Base de carga

- Medidas: 110x100x90 mm
- Peso: 125 g
- Posibilidad de anclaje a la pared

Cable de carga

- Longitud: 1 m
- Peso: 25 g

Cargador

- Alimentación: 100-240 V 50/60 Hz con enchufe europeo
- Peso: 45 g

Charging station

- Measures: 110x100x90 mm
- Weight: 125 g
- Suitable for wall mounting

Charging cable

- Length: 1 m
- Weight: 25 g

Charger

- Power supply: 100-240 V 50/60 Hz with european plug
- Weight: 45 g

Base de charge

- Mesures: 110x100x90 mm
- Poids: 125 g
- Possibilité d'ancrage dans le mur

Câble de charge

- Longueur: 1 m
- Poids: 25 g

Chargeur

- Alimentation: 100-240 V 50/60 Hz avec prise européenne
- Poids: 45 g

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                            |                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 2 focos LED / 2 LED lights / 2 projecteurs LED                                                             | ●                                                                                                                                        |
| LED frontal 2 posiciones / 2 mode front LED / LED frontal à deux positions                                 | 100% & 50%                                                                                                                               |
| LED superior 1 posición / 1 mode top LED / LED supérieur une position                                      | 100%                                                                                                                                     |
| Luminosidad / Brightness / Luminosité                                                                      | 300/150 lm LED frontal - 100 lm LED superior<br>300/150 lm frontal LED - 100 lm top LED<br>300/150 lm LED frontal - 100 lm LED supérieur |
| Potencia / Power / Puissance                                                                               | 2,5 W                                                                                                                                    |
| Ciclo de vida / Lifecycle / Cycle de vie                                                                   | >=50000 h                                                                                                                                |
| Alimentación / Power / Poids                                                                               | 100-240 V - 50/60 Hz                                                                                                                     |
| Grado de protección / Ingress protection / Grade de protection                                             | IP54                                                                                                                                     |
| Carcasa / Housing / Carcasse                                                                               | Plástico antiestático<br>Anti-static plastic<br>Plastique antistatique                                                                   |
| Gancho / Hook / Crochet                                                                                    | Giratorio 360°<br>360° Rotation<br>Rotatif à 360°                                                                                        |
| Fijación magnética / Magnetic holder / Fixation magnétique                                                 | ●                                                                                                                                        |
| Base de carga y cargador incluido / Charging base and charger included / Base de charge et chargeur inclus | 1 m con enchufe europeo<br>1 m with european plug<br>1 m avec prise européenne                                                           |
| Batería / Battery / Batterie                                                                               | 3,2 V / 2800 mAh Lithium                                                                                                                 |
| Tiempo de carga / Charge time / Temps de recharge                                                          | 3,5 h                                                                                                                                    |
| Autonomía / Autonomy / Autonomie                                                                           | 3 h-6 h                                                                                                                                  |
| Designación ATEX / ATEX marking / Marquage ATEX                                                            | Ⓜ II 2 G Ex ib op is IIC T4 Gb / Ⓜ II 2D Ex ib IIIC T120° Db                                                                             |
| Dimensiones / Dimensions / Dimensions                                                                      | 220 x 70 x 40 mm                                                                                                                         |
| Peso / Weight / Poids                                                                                      | 400 g                                                                                                                                    |

■ ILUMINACIÓN / LIGHTING / ÉCLAIRAGE / BELEUCHTUNG / ILLUMINAZIONE / ILUMINAÇÃO / ОСВЕЩЕНИЕ

LINTERNAS INTRÍNSICAMENTE SEGURAS  
INTRINSICALLY-SAFE TORCHES  
LAMPES INTRINSÈQUEMENT SÛRES  
EX-GESCHÜTZTE TASCHENLAMPE  
TORCE INTRINSICAMENTE SICUR  
LANTERNAS INTRINSECAMENTE SEGURAS  
ВЗРЫВОБЕЗОПАСНЫЕ ФОНАРИ

■ MASTEREX 79639 & 79640

La linterna MasterEx 79639-79640 está equipada con un led de alta potencia y un sensor de luz para ahorrar energía. Perfecta para uso en ambientes explosivos peligrosos, hasta zona 0 y 20, conjugando resistencia y potente iluminación. Adaptable a cascos de bombero.

*The MasterEx 79639-79640 is equipped with a high power led and a light sensor for saving energy. Ideal torch for hazardous areas, up to Zone 0 and 20, combining heavy-duty performance and powerful illumination. It can be mounted in fire helmets.*

La lanterne MasterEX 79639-79640 est dotée d'un led de grande puissance et d'un capteur de lumière pour économiser de l'énergie. Parfaite pour une utilisation en atmosphères explosives dangereuses, jusqu'à la zone 0 et 20, conjuguant résistance et forte luminosité. Adaptable aux casques de pompiers.



Sujeción a casco de bombero Gallet F1 para cod. 79640 (cod. 79644)

*Clip for Gallet F1 fire helmets for cod. 79640 (cod. 79644)*

Fixation de casque de pompier Gallet F1 pour code 79640 (cod. 79644)

Adaptador para casco.  
Adapter for helmet.  
Adaptateur pour casque

Led blanco  
3W alta potencia  
White led  
3W high power  
Led blanche  
3W grande puissance

Aro fotoluminiscente  
Alta visibilidad  
Photolumnescent bezel  
High visibility  
Cercle photoluminescent  
Grande visibilité



Pulsador ergonómico  
Facilita el encendido con guantes de intervención  
Ergonomic button  
Provide the light with operation gloves

Bouton ergonomique  
Facilite l'allumage avec des gants d'intervention

Sensor de luz  
Gestión inteligente de consumo  
Light sensor  
Intelligent energy management  
Capteur de lumière  
Gestion intelligente de consommation

**ILUMINACIÓN / LIGHTING / ÉCLAIRAGE / BELEUCHTUNG / ILLUMINAZIONE / ILUMINAÇÃO / ОСВЕЩЕНИЕ**
**Zonas / Zones**

 0, 1, 2 GAS / GAZ  
 20-21-22 POLVO / DUST / POUSSIÈRE


\* 12M

COD.

|       |                           |
|-------|---------------------------|
| 79639 | Pilas / Batteries / Piles |
| 79640 | Litio / Lithium / Lithium |

**ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

| COD.  | Válido para / Valid for / Valable pour | Descripción / Description / Description                                                                           |
|-------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 79644 |                                        | Sujeción a casco de bombero Gallet F1 / Clip for Gallet F1 fire helmets / Fixation de casque de pompier Gallet F1 |
| 79642 | 79640                                  | Cargador / Charger / Chargeur                                                                                     |
| 79643 |                                        | Batería / Battery / Batterie                                                                                      |

**Cargador cod. 79642 (para cod. 79640):**

- Normativa Europea CE, e9
- Clase de protección IP54
- Tiempo de carga: 4-5 h max.
- Desconexión a fin de carga: automática
- Estado de carga: rojo/cargando - verde/cargada.
- Alimentación: DC:12V - AC: 100/240V-50/60Hz
- Tipos y dimensiones: Individual / 75 x 100 x 120 mm

**Charger cod. 79642 (for cod. 79640):**

- Normativa Europea CE, e9
- Clase de protección IP54
- Charging time: 4-5 h max.
- Disconnection at the end of the charge: automatic
- Charging indication: red/charging - green/charged
- Power supply: DC:12V - AC: 100/240V-50/60Hz
- Types and dimensions: Single / 75x100x120mm

**Chargeur cod. 79642 (pour code 79640):**

- Norme Européenne CE, e9
- Classe de protection IP54
- Temps de charge 4-5 h. max.
- Déconnexion en fin de charge: automatique
- État de charge: rouge/en charge - vert/chargé
- Alimentation: DC:12V - AC: 100/240V-50/60Hz
- Types et dimensions: Individuel / 75x100x120 mm

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                                                       |                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Fuente de luz / Light source / Source de lumière                                                                                                      | 3 W Led                                                                                                            |
| Luminosidad / Brightness / Luminosité                                                                                                                 | 135 Lúmenes<br>135 Lumens<br>135 Lumens                                                                            |
| Alimentación / Power / Poids                                                                                                                          |                                                                                                                    |
|                                                                                                                                                       | 79639 4 x R03 AAA / 6V                                                                                             |
|                                                                                                                                                       | 79640 Li-ion / 3,7 V (cod. 79643)                                                                                  |
| Gestión inteligente de consumo / Intelligent energy management / Gestion intelligente de consommation                                                 | Sensor de luz automático<br>Light sensor for automatic switch of the light power<br>Capteur de lumière automatique |
| Autonomía / Autonomy / Autonomie                                                                                                                      | 4 h-30 h                                                                                                           |
| Indicador de autonomía / Battery indication / Indication d'autonomie                                                                                  | Parpadeos al encendido<br>Blinks at the start<br>Cillements au debut                                               |
| Clase de protección / Protection class / Classe de protection                                                                                         | IP67                                                                                                               |
| Sujeción a casco Gallet F1 modelo nuevo incluido / Clip for Gallet F1 new model helmet included / Fixation de casque Gallet F1, nouveau modèle inclus |                                                                                                                    |
|                                                                                                                                                       | 79639 ●                                                                                                            |
|                                                                                                                                                       | 79640 -                                                                                                            |
| Designación ATEX / ATEX marking / Marquage ATEX                                                                                                       | ⊕ II 1 G Ex ia IIC T4 Ga / ⊕ II 1 D Ex ia IIIC T85°C Da                                                            |
| Dimensiones / Dimensions / Dimensions                                                                                                                 | 150 x 38 x 44 mm                                                                                                   |
| Peso / Weight / Poids                                                                                                                                 |                                                                                                                    |
|                                                                                                                                                       | 79639 125 g                                                                                                        |
|                                                                                                                                                       | 79640 145 g                                                                                                        |
| Baterías incluidas / Batteries included / Batteries incluses                                                                                          | ●                                                                                                                  |

■ ILUMINACIÓN / LIGHTING / ÉCLAIRAGE / BELEUCHTUNG / ILLUMINAZIONE / ILUMINAÇÃO / ОСВЕЩЕНИЕ

LINTERNAS INTRÍNECAMENTE SEGURAS  
INTRINSICALLY-SAFE TORCHES  
LAMPES INTRINSÈQUEMENT SÛRES  
EX-GESCHÜTZTE TASCHENLAMPE  
TORCE INTRINSICAMENTE SICUR  
LANTERNAS INTRINSECAMENTE SEGURAS  
ВЗРЫВОБЕЗОПАСНЫЕ ФОНАРИ

■ MASTEREX 79641

La linterna MasterEx 79641 está equipada con un led blanco de potencia de 3W y uno rojo de alta intensidad que emite un destello papadeante y orientable. Perfecta para uso en ambientes explosivos peligrosos, hasta zona 0 y 20, conjugando resistencia y potente iluminación. Fabricada en resina termoplástica de alta resistencia a los impactos, las temperaturas extremas, los líquidos y sustancias corrosivas.

*The MasterEx 79641 is equipped with a 3W white power led and one red high intensity led which emits flashing and guides. Ideal torch for hazardous areas, up to Zone 0 and 20, combining heavy-duty performance and powerful illumination. Made of thermoplastic resin of high resistance to shocks, extreme temperatures, liquids and corrosive substances.*

La lanterne MasterEx 79641 est dotée d'un led blanc de 3 W. et d'un rouge de grande intensité qui produit un scintillement clignotant et orientable. Parfaite pour une utilisation en atmosphères explosives, en zones 0 et 20, conjugant résistance et luminosité intense. Fabriquée en résine thermoplastique de grande résistance aux chocs, aux températures extrêmes, aux liquides et substances corrosives.



**Pulsador ergonómico**  
Facilita el encendido con  
guantes de intervención

*Ergonomic button*  
Provide the light with  
operation gloves

**Bouton ergonomique**  
Facilite l'allumage avec des  
gants d'intervention

**Led rojo**  
Red led  
Led rouge

**Cabezal rotatorio**  
Permite situar el led rojo a ambos  
lados del casco

*Rotatory head*  
Allow placing the red led in both  
helmet sides

**Tête rotative**  
Permet de situer la led rouge de  
chaques côtés du casque

**Acabado**  
Resina termoplástica superresistente  
*Finishing*  
High resistance thermoplastic resin

**Finition**  
Résine thermoplastique super-résistante



**Led blanco**  
3W alta potencia  
*White led*  
3W high power

**Led blanche**  
3W grande puissance

\* 12M: GARANTÍA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

■ ILLUMINACIÓN / LIGHTING / ÉCLAIRAGE / BELEUCHTUNG / ILLUMINAZIONE / ILUMINAÇÃO / ОСВЕЩЕНИЕ

Zonas / Zones

0, 1, 2 GAS / GAZ  
20-21-22 POLVO / DUST / POUSSIÈRE



\* 12M

COD.

79641

■ ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ

| COD.  | Descripción / Description / Description                                                                           |
|-------|-------------------------------------------------------------------------------------------------------------------|
| 79647 | Sujeción a casco de bombero Gallet F1 / Clip for Gallet F1 fire helmets / Fixation de casque de pompier Gallet F1 |
| 79648 | Sujeción a casco de bombero Gallet F2 / Clip for Gallet F2 fire helmets / Fixation de casque de pompier Gallet F2 |
| 79645 | Cargador / Charger / Chargeur                                                                                     |
| 79646 | Batería / Battery / Batterie                                                                                      |

**Cargador cod. 79645:**

- Normativa Europea CE, e9
- Clase de protección IP54
- Tiempo de carga: 5 h max.
- Desconexión a fin de carga: automática.
- Estado de carga: rojo/cargando - verde/cargada
- Alimentación: DC: 12V/24V - AC: 100/240V-50/60Hz
- Tipos y dimensiones: Individual / 100 x 28 x 102 mm

**Changer cod. 79645:**

- European standard CE, e9
- IP rating IP54
- Charging time: 5h max.
- Disconnection at the end of the charge: automatic
- Charging indication: red/charging - green/charged
- Power supply: DC: 12V/24V - AC: 100/240V-50/60Hz
- Types and dimensions: Single / 100x28x102mm

**Chargeur cod. 79645:**

- Norme Européenne CE, e9
- Classe de protection IP54
- Temps de charge: 5 h. max.
- Déconnexion en fin de charge: automatique
- État de charge: rouge/en charge - vert/chargé
- Alimentation: DC: 12V/24V - AC: 100/240V-50/60Hz
- Types et dimensions: Individuel / 100 x 28 x 102 mm

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                                           |                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Fuente de luz / Light source / Source de lumière                                                                                                          | 3 W Led                                                                                                                                        |
| Luminosidad / Brightness / Luminosité                                                                                                                     | Led blanco, 135 Lúmenes - Led rojo, 27 Lúmenes<br>White led, 135 Lumens - Red led, 27 Lumens<br>Led blanche, 135 Lumens - Led rouge, 27 Lumens |
| Cabezal rotatorio / Rotary head / Tête rotative                                                                                                           | 180°                                                                                                                                           |
| Alimentación / Power / Poids                                                                                                                              | Li-ion / 3,7 V                                                                                                                                 |
| Autonomía / Autonomy / Autonomie                                                                                                                          | 3 h-6 h                                                                                                                                        |
| Indicador de autonomía / Battery indication / Indication d'autonomie                                                                                      | Parpadeos al encendido<br>Blinks at the start<br>Cillements au debut                                                                           |
| Clase de protección / Protection class / Classe de protection                                                                                             | IP65                                                                                                                                           |
| Sujeción a casco Gallet F1 modelo nuevo incluido /<br>Clip for Gallet F1 new model helmet included<br>Fixation de casque Gallet F1, nouveau modèle inclus | •                                                                                                                                              |
| Designación ATEX / ATEX marking / Marquage ATEX                                                                                                           | ⊕ II 1 GD Ex ia IIC T4 Ex ia D 20 IP65 T85°C<br>⊕ II 2 GD Ex ia IIC T4 IP65 T85°C                                                              |
| Dimensiones / Dimensions / Dimensions                                                                                                                     | 156 x 56 x 484 mm                                                                                                                              |
| Peso / Weight / Poids                                                                                                                                     | 180 g                                                                                                                                          |
| Baterías incluidas / Batteries included / Batteries incluses                                                                                              | Li-ion / 3,7 V (cod. 79646)                                                                                                                    |

■ ILLUMINACIÓN / LIGHTING / ÉCLAIRAGE / BELEUCHTUNG / ILLUMINAZIONE / ILUMINAÇÃO / ОСВЕЩЕНИЕ

Zonas / Zones

0, 1, 2 GAS / GAZ  
20-21-22 POLVO / DUST / POUSSIÈRE



\* 12M



COD.

79595

LINTERNAS INTRÍNECAMENTE SEGURAS  
INTRINSICALLY-SAFE TORCHES  
LAMPES INTRINSÈQUEMENT SÛRES  
EX-GESCHÜTZTE TASCHENLAMPE

TORCE INTRINSICAMENTE SICUR  
LANTERNAS INTRINSECAMENTE SEGURAS  
ВЗРЫВОБЕЗОПАСНЫЕ ФОНАРИ

■ MASTEREX 79595

La linterna FOCUS LED MasterEx 79595 ofrece una autonomía de 32 horas con sus 4 pilas alcalinas AA, aportando 79 lúmenes de iluminación. Su potente FOCUS LED la convierte en una linterna perfecta para uso en los ambientes de gas/polvo explosivos más peligrosos, hasta Zona 0/20, cuando se requiere de gran potencia de alumbrado, y flexibilidad, gracias a su mango acodado.

*The MasterEx 79595 FOCUS LED torch provides 32 hours of continuous work with 4 AA alkaline batteries, projecting an illumination of 79 lumens. Its powerful FOCUS LED makes it the ideal torch for the most hazardous gas/dust areas, up to Zone 0/20, when high illumination is required. Its offset handle also provides great flexibility.*

La lampe FOCUS LED MasterEx 79595 offre une autonomie de 32 heures avec ses 4 piles alcalines AA, en fournissant 79 lumens d'illumination. Son puissant FOCUS LED la transforme en lampe parfaite pour utiliser dans les environnements de gaz gaz/poussière explosifs les plus dangereux, jusqu'à la Zone 0/20, quand c'est nécessaire d'obtenir une grande puissance d'éclairage et flexibilité grâce à son manche coudé.

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                            |                                                                                          |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Temperatura ambiente Ta / Ambient temperature Ta / Température ambiante Ta | -20 °C - +50 °C                                                                          |
| Fuente de luz / Light source / Source de lumière                           | 1 W Focus Led                                                                            |
| Luminosidad / Brightness / Luminosité                                      | 79 Lúmenes / 79 Lumens / 79 Lumens                                                       |
| Alimentación / Power / Poids                                               | 4 x AA pilas (certificadas) / 4 x AA batteries (type tested) / 4 x AA piles (certifiées) |
| Clase de protección / Protection class / Classe de protection              | IP66                                                                                     |
| Longitud / Length / Longueur                                               | 190 mm                                                                                   |
| Designación ATEX / ATEX marking / Marquage ATEX                            | Ⓜ II 1 G Ga Ex ia IIC T4 / Ⓜ II 1 D Da Ex ia D 20 IP66 T83°C                             |
| Peso / Weight / Poids                                                      | 297 g                                                                                    |
| Baterías incluidas / Batteries included / Batteries incluses               | -                                                                                        |

Zonas / Zones

0, 1, 2 GAS / GAZ



\* 12M



COD.

79650

■ MASTEREX 79650

La linterna FOCUS LED MasterEx 79650 ofrece una autonomía de 32 horas con sus 3 pilas alcalinas C, aportando 109 lúmenes de iluminación. Su potente FOCUS LED y robusta estructura la convierten en una linterna perfecta para uso en ambientes de gas explosivos peligrosos, hasta Zona 0, cuando se requiere de gran autonomía, resistencia y potente iluminación.

*The MasterEx 79650 FOCUS LED torch provides 32 hours of continuous work with 3 C alkaline batteries, projecting an illumination of 109 lumens. Its powerful FOCUS LED and robust structure make it the ideal torch for hazardous gas areas, up to Zone 0, when long autonomy, heavy-duty performance and powerful illumination are required.*

La lampe FOCUS LED MasterEx 79650 offre une autonomie de 32 heures avec ses 3 piles alcalines C, en fournissant 109 lumens d'illumination. Son puissant FOCUS LED et sa structure robuste la transforment en lampe parfaite pour utiliser dans les environnements de gaz explosifs dangereux, jusqu'à la Zone 0, quand c'est nécessaire d'avoir une grande autonomie, résistance et un puissant éclairage.

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                            |                                                                                       |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Temperatura ambiente Ta / Ambient temperature Ta / Température ambiante Ta | -20 °C - +50 °C                                                                       |
| Fuente de luz / Light source / Source de lumière                           | 1 W Focus Led                                                                         |
| Luminosidad / Brightness / Luminosité                                      | 109 Lúmenes / 109 Lumens / 109 Lumens                                                 |
| Alimentación / Power / Poids                                               | 3 x C pilas (certificadas) / 3 x C batteries (type tested) / 3 x C piles (certifiées) |
| Clase de protección / Protection class / Classe de protection              | IP54                                                                                  |
| Longitud / Length / Longueur                                               | 205 mm                                                                                |
| Designación ATEX / ATEX marking / Marquage ATEX                            | Ⓜ II 1 G Ex ia IIC T4                                                                 |
| Peso / Weight / Poids                                                      | 380 g                                                                                 |

\* 12M: GARANTÍA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ



■ ILUMINACIÓN / LIGHTING / ÉCLAIRAGE / BELEUCHTUNG / ILLUMINAZIONE / ILUMINAÇÃO / ОСВЕЩЕНИЕ

Zonas / Zones

0, 1, 2 GAS / GAZ



\* 12M

COD.

76533

LINTERNAS INTRÍNECAMENTE SEGURAS  
INTRINSICALLY-SAFE TORCHES  
LAMPES INTRINSÈQUEMENT SÛRES  
EX-GESCHÜTZTE TASCHENLAMPE

TORCE INTRINSICAMENTE SICUR  
LANTERNAS INTRINSECAMENTE SEGURAS  
ВЗРЫВОБЕЗОПАСНЫЕ ФОНАРИ

■ MASTEREX 76533

La linterna LED MasterEx 76533 ofrece una autonomía de 12 o 5 horas con sus 3 pilas alcalinas AAA, aportando 100 o 216 lúmenes de iluminación. Su potente LED la convierte en una linterna perfecta para uso en los ambientes de gas explosivos más peligrosos, hasta Zona 0, cuando se requiere de gran potencia de alumbrado. Una solución ideal entre máxima seguridad, potente alumbrado y economía.

*The MasterEx 76533 LED torch provides 12 or 5 hours of continuous work with 3 AAA alkaline batteries, projecting an illumination of 100 or 216 lumens. Its powerful LED makes it the ideal torch for the most hazardous gas areas, up to Zone 0, when high illumination is required. It is the ideal combination of maximum safety, powerful illumination and cost-effectiveness.*

La lampe LED MasterEx 76533 offre une autonomie de 12 ou 5 heures avec ses 3 piles alcalines AAA, en fournissant 100 ou 216 lumens d'illumination. Son puissant LED la transforme en lampe parfaite pour utiliser dans les environnements de gaz explosifs les plus dangereux, jusqu'à la Zone 0, quand c'est nécessaire d'obtenir une grande puissance d'éclairage. Une solution idéale de sécurité maximale, puissant éclairage et économie.

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                            |                                                                                                                        |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Temperatura ambiente Ta / Ambient temperature Ta / Température ambiante Ta | -20 °C - +40 °C                                                                                                        |
| Fuente de luz / Light source / Source de lumière                           | Cree XP-G2 LED                                                                                                         |
| Luminosidad / Brightness / Luminosité                                      | Baja: 100 Lúmenes / Alta: 216 Lúmenes / Low: 100 Lumens / High: 216 Lumens /<br>Faible: 100 Lumens / Haute: 216 Lumens |
| Alimentación / Power / Poids                                               | 3 x AAA pilas (certificadas) / 3 x AAA batteries (type tested) /<br>3 x AAA piles (certifiées)                         |
| Clase de protección / Protection class / Classe de protection              | IP67                                                                                                                   |
| Longitud / Length / Longueur                                               | 80 mm                                                                                                                  |
| Designación ATEX / ATEX marking / Marquage ATEX                            | Ⓜ II 1G Ex ia IIC T4 Ga IP67                                                                                           |
| Alcance / Reach / Distance                                                 | Baja: 75 m / Alta: 100 m / Low: 75 m / High: 100 m / Faible: 75 m / Haute: 100 m                                       |
| Peso / Weight / Poids                                                      | 130 g                                                                                                                  |
| Baterías incluidas / Batteries included / Batteries incluses               | ●                                                                                                                      |

Zonas / Zones

1, 2 GAS / GAZ  
21-22 POLVO / DUST / POUSSIÈRE



\* 12M



COD.

79590

■ MASTEREX 79590

La linterna Xenon MasterEx 79590 ofrece una autonomía de 2 horas con sus 2 pilas alcalinas AAA, aportando 7 lúmenes de iluminación. Su ligereza y ergonomía la convierten en una linterna perfecta para uso en ambientes de gas explosivos peligrosos, hasta Zona 1, conjugando versatilidad y eficiencia.

*The MasterEx 79590 Xenon torch provides 2 hours of continuous work with 2 AAA alkaline batteries, projecting an illumination of 7 lumens. Its light and ergonomic makes it the ideal torch for hazardous gas areas, up to Zone 1, matching versatility and cost-effectiveness.*

La lampe Xenon MasterEx 79590 offre une autonomie de 2 heures avec ses 2 piles alcalines AAA, en fournissant 7 lumens d'illumination. Sa légèreté et son ergonomie la transforment en lampe parfaite pour utiliser dans les environnements de gaz explosifs dangereux, jusqu'à la Zone 1, en associant la polyvalence et l'économie.

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                            |                                                                                                |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Temperatura ambiente Ta / Ambient temperature Ta / Température ambiante Ta | -20 °C - +50 °C                                                                                |
| Fuente de luz / Light source / Source de lumière                           | 1,1 W Xenon                                                                                    |
| Luminosidad / Brightness / Luminosité                                      | 7 Lúmenes / 7 Lumens / 7 Lumens                                                                |
| Alimentación / Power / Poids                                               | 2 x AAA pilas (certificadas) / 2 x AAA batteries (type tested) /<br>2 x AAA piles (certifiées) |
| Clase de protección / Protection class / Classe de protection              | IP67                                                                                           |
| Longitud / Length / Longueur                                               | 104 mm                                                                                         |
| Designación ATEX / ATEX marking / Marquage ATEX                            | Ⓜ II 2 G Ex e ib IIB T4 / Ⓜ II 2 D Ex ib D 21 IP67 T100°C                                      |
| Peso / Weight / Poids                                                      | 45 g                                                                                           |
| Baterías incluidas / Batteries included / Batteries incluses               | -                                                                                              |

■ ILLUMINACIÓN / LIGHTING / ÉCLAIRAGE / BELEUCHTUNG / ILLUMINAZIONE / ILUMINAÇÃO / ОСВЕЩЕНИЕ

Zonas / Zones

0, 1, 2 GAS / GAZ



\* 12M

COD.

79591



LINTERNAS INTRÍNSECAMENTE SEGURAS  
INTRINSICALLY-SAFE TORCHES  
LAMPES INTRINSÈQUEMENT SÛRES  
EX-GESCHÜTZTE TASCHENLAMPE

■ MASTEREX 79591

La linterna LED MasterEx 79591 ofrece una autonomía de 130 horas con sus 4 pilas alcalinas LR44, aportando 9 lúmenes de iluminación. Su ligereza y reducido volumen la convierten en una linterna perfecta para uso en los ambientes de gas explosivos más peligrosos.

*The MasterEx 79591 LED torch provides 130 hours of continuous work with 4 LR44 alkaline batteries, projecting an illumination of 9 lumens. Its light and small design makes it the ideal torch for the most hazardous gas areas.*

La lampe LED MasterEx 79591 offre une autonomie de 130 heures avec ses 4 piles alcalines LR44, en fournissant 9 lumens d'illumination. Sa légèreté et son petit volume la transforment en lampe parfaite pour utiliser dans les environnements de gaz explosifs les plus dangereux.

TORCE INTRINSICAMENTE SICUR  
LANTERNAS INTRINSECAMENTE SEGURAS  
ВЗРЫВОБЕЗОПАСНЫЕ ФОНАРИ

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                            |                                                                                                   |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Temperatura ambiente Ta / Ambient temperature Ta / Température ambiante Ta | -20 °C - +50 °C                                                                                   |
| Fuente de luz / Light source / Source de lumière                           | 0,2 W Led                                                                                         |
| Luminosidad / Brightness / Luminosité                                      | 9 Lúmenes / 9 Lumens / 9 Lumens                                                                   |
| Alimentación / Power / Poids                                               | 4 x LR 44 pilas (certificadas) / 4 x LR 44 batteries (type tested) / 4 x LR 44 piles (certifiées) |
| Clase de protección / Protection class / Classe de protection              | IP54                                                                                              |
| Longitud / Length / Longueur                                               | 67 mm                                                                                             |
| Designación ATEX / ATEX marking / Marquage ATEX                            | Ⓜ II 1 G Ex ia IIC T4/T6                                                                          |
| Peso / Weight / Poids                                                      | 25 g                                                                                              |
| Baterías incluidas / Batteries included / Batteries incluses               | ●                                                                                                 |

Zonas / Zones

0, 1, 2 GAS / GAZ



\* 12M

COD.

79598



■ MASTEREX 79598

La linterna MasterEx 79598 ofrece una autonomía de 13 horas con sus 4 pilas alcalinas AA y está equipada con un LED de potencia 1W.

Su ligereza, ergonomía y su grado de protección IP68 la convierten en una linterna perfecta para su uso tanto en ambientes de gas explosivos peligrosos, hasta zona 0, como para uso subacuático.

*The MasterEx 79598 LED torch offers 13 hours of continuous work with 4 AA alkaline batteries and is equipped with a 1W power LED.*

*Its light, ergonomics and IP68 protection grade makes it a perfect torch for use both in hazardous gas areas, up to Zone 0, and for underwater use.*

La lampe LED MasterEx 79598 offre une autonomie de 13 heures avec ses 4 piles alcalines AA et elle est composée par un LED de puissance 1W.

Sa légèreté, ergonomie et degré de protection IP68, la transforment en lampe parfaite pour utiliser dans les environnements de gaz explosifs dangereux, jusqu'à la Zone 0, comme pour utilisation subaquatique.

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                |                                                                                          |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Inmersión continua / Continuous immersion / Immersion continue | ●                                                                                        |
| Fuente de luz / Light source / Source de lumière               | Osram 1 W Led                                                                            |
| Luminosidad / Brightness / Luminosité                          | 60 Lúmenes / 60 Lumens / 60 Lumens                                                       |
| Alimentación / Power / Poids                                   | 4 x AA pilas (certificadas) / 4 x AA batteries (type tested) / 4 x AA piles (certifiées) |
| Clase de protección / Protection class / Classe de protection  | IP68                                                                                     |
| Longitud / Length / Longueur                                   | 175 mm                                                                                   |
| Designación ATEX / ATEX marking / Marquage ATEX                | Ⓜ II 1 G Ex ia IIC T4 ia D 20 T135°C                                                     |
| Denominación UL / UL designation / Dénomination UL             | Class I Div 1 Grp ABCD Class II Div1 Grp EFG Class III Temp code: T4                     |
| Denominación IECEx / IECEx designation / Dénomination IECEx    | Ⓜ Ex ia IIC T4 Ga                                                                        |
| Peso / Weight / Poids                                          | 96 g                                                                                     |
| Baterías incluidas / Batteries included / Batteries incluses   | ●                                                                                        |

\* 12M: GARANTÍA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

■ ILLUMINACIÓN / LIGHTING / ÉCLAIRAGE / BELEUCHTUNG / ILLUMINAZIONE / ILUMINAÇÃO / ОСВЕЩЕНИЕ

LINTERNAS INTRÍNECAMENTE SEGURAS  
INTRINSICALLY-SAFE TORCHES  
LAMPES INTRINSÈQUEMENT SÛRES  
EX-GESCHÜTZTE TASCHENLAMPE

TORCE INTRINSICAMENTE SICUR  
LANTERNAS INTRINSICAMENTE SEGURAS  
ВЗРЫВОБЕЗОПАСНЫЕ ФОНАРИ



Zonas / Zones

0, 1, 2 GAS / GAZ

\* 12M

COD.

79693

■ MASTEREX 79693

La linterna MasterEx 79693 ofrece una autonomía de 40 horas con sus 3 pilas 1.5V alcalinas C y está equipada con un LED Cree XP-E.

Su ligereza, ergonomía y su grado de protección IPX7 la convierten en una linterna perfecta para su uso tanto en ambientes de gas explosivos peligrosos, hasta zona 0, como para uso subacuático (inmersión temporal).

*The MasterEx 79693 LED torch offers 40 hours of continuous work with 3 1.5V C alkaline batteries and is equipped with a Cree XP-E LED.*

*Its light, ergonomics and IPX7 protection grade makes it a perfect torch for use both in hazardous gas areas, up to Zone 0, and for underwater use (temporary immersion).*

La lampe LED MasterEx 79693 offre une autonomie de 40 heures avec ses 3 piles 1.5 V alcalines C et elle est composée par un LED Cree XP-E.

Sa légèreté, ergonomie et degré de protection IPX7, la transforment en lampe parfaite pour utiliser dans les environnements de gaz explosifs dangereux, jusqu'à la Zone 0, comme pour utilisation subaquatique (immersion temporaire).

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                 |                                                                                                                                     |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Fuente de luz / Light source / Source de lumière                | Cree XP-E LED                                                                                                                       |
| Luminosidad / Brightness / Luminosité                           | Baja: 57 Lúmenes / Alta: 141 Lúmenes<br>Low: 57 Lumens / High: 141 Lumens<br>Faible: 57 Lumens / Haute: 141 Lumens                  |
| Modo / Mode / Mode                                              | Alta-Baja-Apagado<br>High-Low-Off<br>Haute-Faible-Éteinte                                                                           |
| Alimentación / Power / Poids                                    | 3 x C 1.5V pilas alcalinas (certificadas)<br>3 x C 1.5V alkaline batteries (type tested)<br>3 x C 1.5V piles alcalines (certifiées) |
| Clase de protección / Protection class / Classe de protection   | IPX7                                                                                                                                |
| Longitud / Length / Longueur                                    | 220 mm                                                                                                                              |
| Inmersión temporal / Temporary immersion / Immersion temporaire | ●                                                                                                                                   |
| Soporte / Support / Support                                     | ●                                                                                                                                   |
| Designación ATEX / ATEX marking / Marquage ATEX                 | Ⓢ II 1 G Ex ia IIC T4                                                                                                               |
| Denominación UL / UL designation / Dénomination UL              | Class I Div 1 Grp ABCD Class II Div1 Grp EFG Class III Temp code: T4                                                                |
| Denominación IECEx / IECEx designation / Dénomination IECEx     | Ⓢ ia IIC T4 Ga                                                                                                                      |
| Peso / Weight / Poids                                           | 190 g                                                                                                                               |
| Baterías incluidas / Batteries included / Batteries incluses    | ●                                                                                                                                   |

■ CÁMARA / CAMERA / CAMÉRA / KAMERA / CAMERA / CÂMARA / KAMERA

**CÁMARA DIGITAL INTRÍNSECAMENTE SEGURA**  
**INTRINSICALLY-SAFE DIGITAL CAMERA**  
**CAMÉRA DIGITALE INTRINSÈQUEMENT SÛRE**  
**EX-GESCHÜTZTE DIGITALKAMERA**  
**CAMERA DIGITALE INTRINSECAMENTE SICURA**  
**CÂMARA DIGITAL INTRINSECAMENTE SEGURA**  
**ВЗРЫВОБЕЗОПАСНАЯ ЦИФРОВАЯ КАМЕРА**

■ MASTEREX 79789



La cámara digital intrínsecamente segura MasterEx 79789 es la herramienta de visualización perfecta para áreas con peligro de explosión. Con certificación ATEX e IECEx, la MasterEx 79789 puede usarse en todos los sectores, como por ejemplo en plantas químicas y farmacéuticas, plataformas de producción de petróleo y gas, refinerías, minería y servicios de emergencia, entre otros.

Fabricada en plástico antiestático reforzado, la MasterEx 79789 está clasificada como IP65, con lo cual puede emplearse en los ambientes más duros. Gracias a su carcasa fina y alargada, su peso no supera los 200 g, lo que la convierte en la herramienta perfecta para el transporte de bolsillo.

Equipada con un flash 4 LEDs de alto brillo, tecnología antivibraciones y una resolución de 3,1 megapixels, la MasterEx 79789 ofrece imágenes de alta calidad en ambientes con alto peligro de explosión, y de forma segura.

La transferencia de datos a cualquier ordenador en un área segura es simple y fácil de llevar a cabo vía puerto USB empleando el PTP (protocolo de transferencia de fotos), que se inicia automáticamente.

La hora y la fecha se imprimen automáticamente en todas las fotografías para crear una historia cronológica, uniéndose automáticamente la función Anotación Verbal de Audio al nombre del archivo.

*The MasterEx 79789 intrinsically safe digital camera is the perfect visualisation tool for use in hazardous areas. ATEX and IECEx certified, MasterEx 79789 can be used in all sectors of industry including Chemical & Pharmaceutical plants, Oil & Gas production platforms, Refineries, Mining and Emergency Services to name but a few.*

*Made of rugged injection moulded anti-static plastic, MasterEx 79789 is IP65 rated and is suitable for use in the most arduous environments. Due to its long slim lightweight enclosure weighing less than 200 g, MasterEx 79789 lends itself to single handed operation, making it convenient to carry in your pocket.*

*Equipped with its super bright 4 LED flash, anti-shake technology and 3.1 mega pixel resolution, MasterEx 79789 provides high quality images in all Hazardous Area environments.*

*Data transfer to any computer in the safe area is simple and easy to undertake via a USB port utilising Picture Transfer Protocol (PTP) which is initiated automatically.*

*All images are date and time stamped to create a chronological history and are coupled to the unique function of Voice Annotation Audio records, which are systematically matched to the image file name.*

La cámara digital intrínsecamente segura MasterEx 79789 es la herramienta de visualización perfecta para áreas con peligro de explosión. Con certificación ATEX e IECEx, la MasterEx 79789 puede usarse en todos los sectores, como por ejemplo : les usines chimiques et pharmaceutiques, plates-formes de production de pétrole et gaz, raffineries, minière et services d'urgences, entre autres.

Fabricada en plástico antiestático reforzado, la MasterEx 79789 está clasificada como IP65, para esta razón ella puede ser utilizada en los entornos más críticos. Con su carcasa fina y alargada, su peso no supera los 200 g, lo que le permite ser considerada un herramienta perfecta y fácil de guardar en el bolsillo.

Equipada con un flash de 4 diodos de alta brillantez, tecnología anti-vibraciones y una resolución de 3,1 megapixels, la MasterEx 79789 ofrece de forma segura imágenes de alta calidad en los entornos con alto riesgo de explosión.

El transferir de datos a cualquier ordenador es simple y fácil de hacer a través del puerto USB utilizando el PTP (protocolo de transferencia de fotos) que se inicia automáticamente.

La hora y la fecha se imprimen automáticamente en todas las fotos para crear una historia cronológica, todo añadiendo la función Anotación Verbal de Sonido al nombre del archivo.

■ CÁMARA / CAMERA / CAMÉRA / KAMERA / CAMERA / CÂMARA / KAMEPA

Zonas / Zones

0, 1, 2 GAS / GAZ  
M1 MINERÍA / MINING / MINIERE



\* 12M

COD.

79789

■ MASTEREX 79789

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                |                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Resolución / Resolution / Résolution                                                                                           | 3,1 MegaPixel (2048x1536)                                                                                                                            |
| Memoria interna / Internal memory / Mémoire interne                                                                            | 1Gb                                                                                                                                                  |
| Flash                                                                                                                          | 4x LED de alto brillo<br>4x LED of high brightness<br>4 x LED de haute brillance                                                                     |
| Transferencia de datos / Data transference / Transfert de données                                                              | USB 1.1                                                                                                                                              |
| Clase de protección / Protection class / Classe de protection                                                                  | IP65                                                                                                                                                 |
| Temperatura de trabajo / Working temperature / Température de travail                                                          | Grupo II: -20 °C - +60 °C Grupo I: 0° - +60 °C<br>Group II: -20 °C - +60 °C Group I: 0° - +60 °C<br>Groupe II: -20 °C - +60 °C Groupe I: 0° - +60 °C |
| Marcaje temporal de imágenes / Image date and time stamping / Marquage temporel d'images                                       | ●                                                                                                                                                    |
| Imagen / Image / Image                                                                                                         | JPG                                                                                                                                                  |
| Almacenamiento de imágenes con fecha y hora / Image storage with time and date / Emmagasinement des images avec dates et heure | ●                                                                                                                                                    |
| Funda protectora de goma / Protective rubber cover / Étui protecteur en caoutchouc                                             | ●                                                                                                                                                    |
| Anotación de voz / Voice annotation / Annotation de voix                                                                       | WAV                                                                                                                                                  |
| Anti Shake                                                                                                                     | ●                                                                                                                                                    |
| Función auto-apagado / Auto power-off / Fonction auto-éteint                                                                   | 3 mins                                                                                                                                               |
| USB                                                                                                                            | ●                                                                                                                                                    |
| Lente / Lens / Lentille                                                                                                        | Enfoque automatico, 3,39mm<br>Automatic focus, 3,39mm<br>Focalisation automatique, 3,39mm                                                            |
| Distancia focal / Focal distance / Distance focale                                                                             | 5 cm                                                                                                                                                 |
| Pilas / Batteries / Piles                                                                                                      | 2xAA                                                                                                                                                 |
| Designación ATEX / ATEX marking / Marquage ATEX                                                                                | Ⓜ II 1 G Ex ia IIB T4/T3 Ga<br>Ⓜ II 2 G Ex ia IIC T4 Gb -20 °C ≤ Ta ≤ +60 °C<br>Ⓜ I M1 Ex ia I Ma 0 °C ≤ Ta ≤ +60 °C                                 |
| Denominación IECEx / IECEx designation / Dénomination IECEx                                                                    | Ex II 1 G Ex ia IIB T4/T3 Ga<br>Ex II 2 G Ex ia IIC T4 Gb -20 °C ≤ Ta ≤ +60 °C<br>Ex ia I Ma 0 °C ≤ Ta ≤ +60 °C                                      |
| Dimensiones / Dimensions / Dimensions                                                                                          | 132 x 32 x 22 mm                                                                                                                                     |
| Peso / Weight / Poids                                                                                                          | 200 g                                                                                                                                                |
| Material / Material / Matière                                                                                                  | Plastico antiestatico reforzado<br>Reinforced antistatic plastic<br>Plastique antistatique renforcé                                                  |

## TALADROS / DRILLS / PERCEUSES / KLEINBOHRMASCHINE / TRAPANI / BERBEQUINS / ДРЕЛИ

Los taladros ATEX de EGA Master son robustos, potentes y muy manejables. El usuario dispone de diferentes modelos para poder escoger el que más se adapte a sus necesidades.

El taladro percutor de EGA Master está pensado para realizar taladros y perforaciones en multitud de materiales. La gran diferencia frente a un taladro normal, es la posibilidad de seleccionar un movimiento de percusión que acompañe al de rotación, facilitando enormemente la capacidad de perforación. Es imprescindible para perforar espesores muy gruesos de material de obra determinados o materiales muy duros, como el hormigón, la piedra, etc.

*EGA Master's ATEX drills are solid, powerful and very manageable. The user can choose different models that best suit his needs.*

*EGA Master Hammer drill is designed for drilling holes in several types of materials. The great difference from an ordinary drill, is the possibility of selecting a percussive movement that accompanies the rotation, greatly facilitating the drilling performance. This drill is essential to bore very thick or very hard materials such as concrete, stone, etc.*

Les perceuses ATEX d'EGA Master sont robustes, puissantes et très maniables. L'utilisateur dispose de différents modèles pour pouvoir choisir celui qui s'adapte le mieux à ses besoins.

La perceuse à percussion d'EGA Master a été conçue pour réaliser des perçages dans des multitudes de matériaux. La grande différence face à une perceuse normale, est la possibilité de sélectionner un mouvement de percussion qui accompagne celui de rotation, facilitant énormément la capacité de perforation. Elle est indispensable pour percer de grosses épaisseurs de matériau de travail ou des matériaux très durs, comme le béton, la pierre, etc.

## NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

\* 12M CE



COD.

79602

79603

### Zonas / Zones

M2 MINERÍA / MINING / MINIÈRE

### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

Para más información técnica o sobre los accesorios consultar en [www.egamaster.com](http://www.egamaster.com) / For more technical information or accessories check [www.egamaster.com](http://www.egamaster.com) / Pour de plus amples informations techniques et des accessoires, veuillez consulter le site [www.egamaster.com](http://www.egamaster.com)

### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                          | Neumático / Pneumatic / Pneumatique |                                               |
|-------------------------------------------------------------|-------------------------------------|-----------------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail | 6 bar                               |                                               |
| Portabrocas / Chuck / Mandrin                               |                                     |                                               |
|                                                             | 79602                               | 10 mm                                         |
|                                                             | 79603                               | 13 mm                                         |
| Capacidad / Capacity / Capacité                             |                                     |                                               |
|                                                             | 79602                               | 10 mm (acero) / 10 mm (steel) / 10 mm (acier) |
|                                                             | 79603                               | 13 mm (acero) / 13 mm (steel) / 13 mm (acier) |
| RPM                                                         |                                     |                                               |
|                                                             | 79602                               | 1550                                          |
|                                                             | 79603                               | 850                                           |
| Potencia / Power / Puissance                                | 0,5 kW                              |                                               |
| Consumo de aire / Air consumption / Consommation d'air      | 0,6 m <sup>3</sup> /min             |                                               |
| Conexión / Connection / Connexion                           | R 1/4"i                             |                                               |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)             | 10 mm                               |                                               |
| Nivel sonoro / Sound level / Niveau sonore                  | 84 db                               |                                               |
| Nivel de vibración / Vibration level / Niveau de vibration  | <2,5 m/s <sup>2</sup>               |                                               |
| Longitud / Length / Longueur                                | 230 mm                              |                                               |
| Designación ATEX / ATEX marking / Marquage ATEX             | Ⓔ I M2 Ex h I Mb T6                 |                                               |
| Peso / Weight / Poids                                       | 2,1 kg                              |                                               |

\* 12M: GARANTÍA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

■ TALADROS / DRILLS / PERCEUSES / KLEINBOHRMASCHINE / TRAPANI / BERBEQUINS / ДРЕЛИ

■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

\* 12M CE



COD.

79904

79905

Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                                                 | Neumático / Pneumatic / Pneumatique                 |
|------------------------------------------------------------------------------------|-----------------------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail                        | 6 bar                                               |
| Portabrocas / Chuck / Mandrin                                                      |                                                     |
|                                                                                    | 79904 10 mm                                         |
|                                                                                    | 79905 13 mm                                         |
| Capacidad / Capacity / Capacité                                                    |                                                     |
|                                                                                    | 79904 10 mm (acero) / 10 mm (steel) / 10 mm (acier) |
|                                                                                    | 79905 13 mm (acero) / 13 mm (steel) / 13 mm (acier) |
| RPM                                                                                |                                                     |
|                                                                                    | 79904 1550                                          |
|                                                                                    | 79905 850                                           |
| Potencia / Power / Puissance                                                       | 0,5 kW                                              |
| Conexión (entrada/salida) / Connection (inlet/outlet) / Connexion (entrée /sortie) | R 1/4" - R 3/8" f                                   |
| Consumo de aire / Air consumption / Consommation d'air                             | 0,6 m <sup>3</sup> /min                             |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                                    | ≥ 10 mm                                             |
| Nivel sonoro / Sound level / Niveau sonore                                         | 84 db                                               |
| Nivel de vibración / Vibration level / Niveau de vibration                         | <2,5 m/s <sup>2</sup>                               |
| Longitud / Length / Longueur                                                       |                                                     |
|                                                                                    | 79904 235 mm                                        |
|                                                                                    | 79905 245 mm                                        |
| Designación ATEX / ATEX marking / Marquage ATEX                                    | ⊕ II 2G Ex h IIB T6 Gb                              |
| Peso / Weight / Poids                                                              | 2,1 kg                                              |

TALADRO MANGO EN D / D-HANDLE DRILL / PERCEUSE MANCHE D / LUFTDRUCK-BOHRMASCHINE / TRAPANO CON MANICO A D / BERBEQUIM COM PUNHO FECHADO / ДРЕЛЬ С РУКОЯТКОЙ ТИП D

\* 12M CE



COD.

79605

Zonas / Zones

M2 MINERÍA / MINING / MINIÈRE

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                          | Neumático / Pneumatic / Pneumatique             |
|-------------------------------------------------------------|-------------------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail | 6 bar                                           |
| Par / Torque / Paire                                        | 9 Nm                                            |
| Portabrocas / Chuck / Mandrin                               | De acción rápida / Quick action / Action rapide |
| Capacidad / Capacity / Capacité                             | 13 mm (acero) / 13 mm (steel) / 13 mm (acier)   |
| RPM                                                         | 650                                             |
| Potencia / Power / Puissance                                | 0,65 kW                                         |
| Consumo de aire / Air consumption / Consommation d'air      | 0,68 m <sup>3</sup> /min                        |
| Conexión / Connection / Connexion                           | R 3/8" f                                        |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)             | 13 mm                                           |
| Nivel sonoro / Sound level / Niveau sonore                  | 89 db                                           |
| Nivel de vibración / Vibration level / Niveau de vibration  | <2,5 m/s <sup>2</sup>                           |
| Designación ATEX / ATEX marking / Marquage ATEX             | ⊕ I M2 Ex h I Mb T6                             |
| Peso / Weight / Poids                                       | 5,7 kg                                          |

■ TALADROS / DRILLS / PERCEUSES / KLEINBOHRMASCHINE / TRAPANI / BERBEQUINS / ДРЕЛИ

■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

■ TALADRO ANGULAR / CORNER DRILL / PERCEUSE D'ANGLE / LUFTDRUCK-WINKEL-BOHRMASCHINE / TRAPANO ANGOLARE / BERBEQUIM ANGULAR / УГЛОВАЯ ДРЕЛЬ

\* 12M



COD.

79249

79606



Zonas / Zones

M2 MINERÍA / MINING / MINIERE

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                          | Neumático / Pneumatic / Pneumatique |                                               |
|-------------------------------------------------------------|-------------------------------------|-----------------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail | 6 bar                               |                                               |
| Portabrocas / Chuck / Mandrin                               | 79249                               | MT2                                           |
|                                                             | 79606                               | MT3                                           |
| Capacidad / Capacity / Capacité                             | 79249                               | 23 mm (acero) / 23 mm (steel) / 23 mm (acier) |
|                                                             | 79606                               | 32 mm (acero) / 32 mm (steel) / 32 mm (acier) |
| RPM                                                         | 79249                               | 270                                           |
|                                                             | 79606                               | 260                                           |
| Potencia / Power / Puissance                                | 79249                               | 1,33 kW                                       |
|                                                             | 79606                               | 1,92 kW                                       |
| Par / Torque / Paire                                        | 79249                               | 48 Nm                                         |
|                                                             | 79606                               | 72 Nm                                         |
| Consumo de aire / Air consumption / Consommation d'air      | 79249                               | 1,40 m <sup>3</sup> /min                      |
|                                                             | 79606                               | 1,80 m <sup>3</sup> /min                      |
| Conexión / Connection / Connexion                           | R 3/4" a                            |                                               |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)             | 15 mm                               |                                               |
| Nivel sonoro / Sound level / Niveau sonore                  | 79249                               | 92 db                                         |
|                                                             | 79606                               | 93 db                                         |
| Nivel de vibración / Vibration level / Niveau de vibration  | 79249                               | 3,3 m/s <sup>2</sup>                          |
|                                                             | 79606                               | 3,4 m/s <sup>2</sup>                          |
| Designación ATEX / ATEX marking / Marquage ATEX             | Ⓢ I M2 c T6                         |                                               |
| Peso / Weight / Poids                                       | 79249                               | 8,5 kg                                        |
|                                                             | 79606                               | 11,5 kg                                       |

\* 12M: GARANTÍA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ



■ TALADROS / DRILLS / PERCEUSES / KLEINBOHRMASCHINE / TRAPANI / BERBEQUINS / ДРЕЛИ

10 mm (acero) / 10 mm  
10 mm (acier)

13 mm (acero) / 13 mm  
13 mm (acier)

■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

TALADRO CON HUSILLO DE ALIMENTACIÓN REVERSIBLE / REVERSIBLE FEED SPINDLE DRILL / PERCEUSE AVEC BROCHE D'ALIMENTATION RÉVERSIBLE / BOHRMASCHINE MIT UMSCHALTBARER VORSCHUBSPINDEL / TRAPANO REVERSIBILE CON MANDRINO / BERBEQUIM COM FUSO DE ALIMENTAÇÃO REVERSÍVEL / ДРЕЛЬ С РЕВЕРСИВНЫМ ШПИНДЕЛЕМ ПНЕВМАТИЧЕСКАЯ

\* 12M



COD.

79996

79998



Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                          | Neumático / Pneumatic / Pneumatique                 |
|-------------------------------------------------------------|-----------------------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail | 6 bar                                               |
| Portabrocas / Chuck / Mandrin                               |                                                     |
|                                                             | 79996 MT2                                           |
|                                                             | 79998 MT3                                           |
| Capacidad / Capacity / Capacité                             |                                                     |
|                                                             | 79996 23 mm (acero) / 23 mm (steel) / 23 mm (acier) |
|                                                             | 79998 32 mm (acero) / 32 mm (steel) / 32 mm (acier) |
| RPM                                                         | 250                                                 |
| Potencia / Power / Puissance                                |                                                     |
|                                                             | 79996 1,5 kW                                        |
|                                                             | 79998 1,25 kW                                       |
| Par / Torque / Paire                                        | 46 Nm                                               |
| Consumo de aire / Air consumption / Consommation d'air      |                                                     |
|                                                             | 79996 1,20 m <sup>3</sup> /min                      |
|                                                             | 79998 1,50 m <sup>3</sup> /min                      |
| Conexión / Connection / Connexion                           | R 3/4" a                                            |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)             | 15 mm                                               |
| Designación ATEX / ATEX marking / Marquage ATEX             | Ⓢ II 2G c T6                                        |
| Peso / Weight / Poids                                       |                                                     |
|                                                             | 79996 12 kg                                         |
|                                                             | 79998 12,5 kg                                       |

TALADRO MAGNÉTICO / MAGNETIC CORE DRILL / PERCEUSE MAGNÉTIQUE / KERNLOCHBOHRER MIT MAGNETFÜß / TRAPANO MAGNETICO / BERBEQUIM MAGNÉTICO / СТАНОК ДЛЯ ВЫРЕЗАНИЯ ОТВЕРСТИЙ НА МАГНИТНОЙ ПОДУШКЕ

\* 12M



COD.

79632

79633



Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                                                              | Neumático / Pneumatic / Pneumatique |
|-------------------------------------------------------------------------------------------------|-------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail                                     | 6 bar                               |
| Par / Torque / Paire                                                                            | 47,5 Nm                             |
| Portabrocas / Chuck / Mandrin                                                                   | 19 mm                               |
| Máximo diámetro de perforación / Maximum diameter of drilling / Diamètre maximum de perforation | 53 mm                               |
| Fuerza magnética / Magnetic force / Force magnétique                                            | 800 kg                              |
| RPM                                                                                             | 400                                 |
| Potencia / Power / Puissance                                                                    | 1,0 kW                              |
| Consumo de aire / Air consumption / Consommation d'air                                          | 1,50 m <sup>3</sup> /min            |
| Carrera / Stroke / Parcours                                                                     |                                     |
|                                                                                                 | 79632 125 mm                        |
|                                                                                                 | 79633 260 mm                        |
| Conexión / Connection / Connexion                                                               | R 3/8" f                            |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                                                 | 13 mm                               |
| Designación ATEX / ATEX marking / Marquage ATEX                                                 | Ⓢ II 2G c T6                        |
| Peso / Weight / Poids                                                                           |                                     |
|                                                                                                 | 79632 19 kg                         |
|                                                                                                 | 79633 21,5 kg                       |

■ TALADROS / DRILLS / PERCEUSES / KLEINBOHRMASCHINE / TRAPANI / BERBEQUINS / ДРЕЛИ

■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

■ PERFORADORA / CORE DRILL / CAROTTEUSE À BETON / BOHRHAMMER / PERFORATORE / PERFURADORA / ДРЕЛЬ АЛМАЗНОГО БУРЕНИЯ

\* 12M



COD.

79303



Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

Para más información técnica o sobre los accesorios consultar en [www.egamaster.com](http://www.egamaster.com) / For more technical information or accessories check [www.egamaster.com](http://www.egamaster.com) / Pour de plus amples informations techniques et des accessoires, veuillez consulter le site [www.egamaster.com](http://www.egamaster.com)

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                             |                                                                                                   |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Tipo / Type / Type                                          | Neumático / Pneumatic / Pneumatique                                                               |
| Presión de trabajo / Working pressure / Pression de travail | 6 bar                                                                                             |
| Par / Torque / Paire                                        | 49/31/16 Nm                                                                                       |
| Consumo de aire / Air consumption / Consommation d'air      | 2,2 m <sup>3</sup> /min                                                                           |
| Conexión / Connection / Connexion                           | R 3/4" f                                                                                          |
| RPM                                                         | 400-900-1600                                                                                      |
| Potencia / Power / Puissance                                | 1,6 kW                                                                                            |
| Brocas standard / Standard drills / Mèche standard          | ≤160 mm                                                                                           |
| Conexión a broca / Bit connection / Connexion de bits       | 1.1/4"UNC macho / R1/2" hembra<br>1.1/4"UNC male / R1/2" female<br>1.1/4"UNC mâle / R1/2" femelle |
| Longitud / Length / Longueur                                | 540 mm                                                                                            |
| Designación ATEX / ATEX marking / Marquage ATEX             | ⊕ II 2G Ex h IIB T6 Gb                                                                            |
| Peso / Weight / Poids                                       | 8,2 kg                                                                                            |

\* 12M



COD.

79330



Zonas / Zones

M2 MINERÍA / MINING / MINIÈRE

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                             |                                                                                                   |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Tipo / Type / Type                                          | Neumático / Pneumatic / Pneumatique                                                               |
| Presión de trabajo / Working pressure / Pression de travail | 6 bar                                                                                             |
| Par / Torque / Paire                                        | 90/56/29 Nm                                                                                       |
| Consumo de aire / Air consumption / Consommation d'air      | 3,5 m <sup>3</sup> /min                                                                           |
| Conexión / Connection / Connexion                           | R 3/4" a                                                                                          |
| RPM                                                         | 300-700-1350                                                                                      |
| Potencia / Power / Puissance                                | 2,8 kW                                                                                            |
| Brocas standard / Standard drills / Mèche standard          | ≤160 mm                                                                                           |
| Conexión a broca / Bit connection / Connexion de bits       | 1.1/4"UNC macho / R1/2" hembra<br>1.1/4"UNC male / R1/2" female<br>1.1/4"UNC mâle / R1/2" femelle |
| Longitud / Length / Longueur                                | 600 mm                                                                                            |
| Designación ATEX / ATEX marking / Marquage ATEX             | ⊕ I M2 Ex h I Mb T6                                                                               |
| Peso / Weight / Poids                                       | 17,7 kg                                                                                           |

\* 12M: GARANTÍA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

■ TALADROS / DRILLS / PERCEUSES / KLEINBOHRMASCHINE / TRAPANI / BERBEQUINS / ДРЕЛИ

■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

■ PERFORADORA / CORE DRILL / CAROTTEUSE À BETON / BOHRHAMMER / PERFORATORE / PERFURADORA / ДРЕЛЬ АЛМАЗНОГО БУРЕНИЯ

\* 12M



COD.

79357



Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                          | Neumático / Pneumatic / Pneumatique                                                               |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail | 6 bar                                                                                             |
| Par / Torque / Paire                                        | 49/31/16 Nm                                                                                       |
| Consumo de aire / Air consumption / Consommation d'air      | 2,2 m <sup>3</sup> /min                                                                           |
| Conexión / Connection / Connexion                           | R 3/4" a                                                                                          |
| RPM                                                         | 400-900-1600                                                                                      |
| Potencia / Power / Puissance                                | 1,6 kW                                                                                            |
| Brocas standard / Standard drills / Mèche standard          | ≤160 mm                                                                                           |
| Conexión a broca / Bit connection / Connexion de bits       | 1.1/4"UNC macho / R1/2" hembra<br>1.1/4"UNC male / R1/2" female<br>1.1/4"UNC mâle / R1/2" femelle |
| Longitud / Length / Longueur                                | 540 mm                                                                                            |
| Designación ATEX / ATEX marking / Marquage ATEX             | ⊕ II 2G Ex h IIB T6 Gb                                                                            |
| Peso / Weight / Poids                                       | 8,2 kg                                                                                            |

\* 12M



COD.

79422



Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                          | Neumático / Pneumatic / Pneumatique                                                               |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail | 6 bar                                                                                             |
| Par / Torque / Paire                                        | 90/56/29 Nm                                                                                       |
| Consumo de aire / Air consumption / Consommation d'air      | 3,5 m <sup>3</sup> /min                                                                           |
| Conexión / Connection / Connexion                           | R 3/4" f                                                                                          |
| RPM                                                         | 300-700-1350                                                                                      |
| Potencia / Power / Puissance                                | 2,8 kW                                                                                            |
| Brocas standard / Standard drills / Mèche standard          | ≤300 mm                                                                                           |
| Conexión a broca / Bit connection / Connexion de bits       | 1.1/4"UNC macho / R1/2" hembra<br>1.1/4"UNC male / R1/2" female<br>1.1/4"UNC mâle / R1/2" femelle |
| Longitud / Length / Longueur                                | 516 mm                                                                                            |
| Designación ATEX / ATEX marking / Marquage ATEX             | ⊕ II 2G Ex h IIB T6 Gb                                                                            |
| Peso / Weight / Poids                                       | 12,7 kg                                                                                           |

■ TALADROS / DRILLS / PERCEUSES / KLEINBOHRMASCHINE / TRAPANI / BERBEQUINS / ДРЕЛИ

■ HIDRÁULICA / HIDRAULIC / HYDRAULIQUE / HYDRAULISCH / IDRAULICA / HIDRÁULICA / ГИДРАВЛИЧЕСКИЙ

TALADRO MAGNÉTICO / MAGNETIC CORE DRILL / PERCEUSE MAGNÉTIQUE / KERNLOCHBOHRER MIT MAGNETFUB / TRAPANO MAGNETICO / BERBEQUIM MAGNÉTICO / СТАНОК ДЛЯ ВЫРЕЗАНИЯ ОТВЕРСТИЙ НА МАГНИТНОЙ ПОДУШКЕ

\* 12M



COD.  
79432



Zonas / Zones  
1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                                                              | Hidráulico / Hydraulic / Hydraulique |
|-------------------------------------------------------------------------------------------------|--------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail                                     | 140 bar                              |
| Portabrocas / Chuck / Mandrin                                                                   | MT3                                  |
| Máximo diámetro de perforación / Maximum diameter of drilling / Diamètre maximum de perforation | 100 mm                               |
| Fuerza magnética / Magnetic force / Force magnétique                                            | 850 kg                               |
| RPM                                                                                             | 40-250                               |
| Potencia / Power / Puissance                                                                    | 2,5 kW                               |
| Caudal hidráulico / Oil flow / Flux d'huile                                                     | 20-23 l/min                          |
| Carrera / Stroke / Parcours                                                                     | 300 mm                               |
| Nivel sonoro / Sound level / Niveau sonore                                                      | 79,8 db                              |
| Nivel de vibración / Vibration level / Niveau de vibration                                      | <2,5 m/s <sup>2</sup>                |
| Designación ATEX / ATEX marking / Marquage ATEX                                                 | Ⓢ II 2G c IIB T5                     |
| Peso / Weight / Poids                                                                           | 22,5 kg                              |

■ PERFORADORA / CORE DRILL / CAROTTEUSE À BÉTON / BOHRHAMMER / PERFORATORE / PERFURADORA / ДРЕЛЬ АЛМАЗНОГО БУРЕНИЯ

\* 12M



COD.  
79920



Zonas / Zones  
1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                          | Hidráulico / Hydraulic / Hydraulique                                                              |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail | 140 bar                                                                                           |
| RPM                                                         | 380-900-1800                                                                                      |
| Potencia / Power / Puissance                                | 2,8 kW                                                                                            |
| Par / Torque / Paire                                        | 60/38/17 Nm                                                                                       |
| Caudal hidráulico / Oil flow / Flux d'huile                 | 22-45 l/min                                                                                       |
| Conexión / Connection / Connexion                           | 1/2"FF                                                                                            |
| Brocas standard / Standard drills / Mèche standard          | ≤160 mm                                                                                           |
| Conexión a broca / Bit connection / Connexion de bits       | 1.1/4"UNC macho / R1/2" hembra<br>1.1/4"UNC male / R1/2" female<br>1.1/4"UNC mâle / R1/2" femelle |
| Longitud / Length / Longueur                                | 490 mm                                                                                            |
| Designación ATEX / ATEX marking / Marquage ATEX             | Ⓢ II 2G Ex h IIB T5 Gb                                                                            |
| Peso / Weight / Poids                                       | 8,5 kg                                                                                            |

\* 12M: GARANTÍA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

■ TALADROS / DRILLS / PERCEUSES / KLEINBOHRMASCHINE / TRAPANI / BERBEQUINS / ДРЕЛИ

■ HIDRÁULICA / HIDRAULIC / HYDRAULIQUE / HYDRAULISCH / IDRAULICA / HIDRÁULICA / ГИДРАВЛИЧЕСКИЙ

■ PERFORADORA / CORE DRILL / CAROTTEUSE À BETON / BOHRHAMMER / PERFORATORE / PERFURADORA / ДРЕЛЬ АЛМАЗНОГО БУРЕНИЯ

\* 12M



COD.

79276



Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                             |                                                                                                   |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Tipo / Type / Type                                          | Hidráulico / Hydraulic / Hydraulique                                                              |
| Presión de trabajo / Working pressure / Pression de travail | 140 bar                                                                                           |
| RPM                                                         | 380-900-1800                                                                                      |
| Potencia / Power / Puissance                                | 3,1 kW                                                                                            |
| Par / Torque / Paire                                        | 70/45/25 Nm                                                                                       |
| Caudal hidráulico / Oil flow / Flux d'huile                 | 22-45 l/min                                                                                       |
| Conexión / Connection / Connexion                           | 1/2"FF                                                                                            |
| Brocas standard / Standard drills / Mèche standard          | ≤300 mm                                                                                           |
| Conexión a broca / Bit connection / Connexion de bits       | 1.1/4"UNC macho / R1/2" hembra<br>1.1/4"UNC male / R1/2" female<br>1.1/4"UNC mâle / R1/2" femelle |
| Longitud / Length / Longueur                                | 490 mm                                                                                            |
| Designación ATEX / ATEX marking / Marquage ATEX             | Ⓢ II 2G Ex h IIB T5 Gb                                                                            |
| Peso / Weight / Poids                                       | 9,0 kg                                                                                            |



■ PERCUSIÓN / PERCUSSION / PERCUSSION / SCHLAGZEUG / PERCUSSIONE / PERCUSSÃO / УДАРНЫЙ

■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

■ TALADRO CON PERCUSIÓN / IMPACT DRILL / PERCEUSE À PERCUSSION / SCHLAGBOHRMASCHINE / TRAPANO A PERCUSSIONE / BERBEQUIM DE PERCUSSÃO / УДАРНАЯ ДРЕЛЬ

\* 12M



COD.

79604



Zonas / Zones

M2 MINERÍA / MINING / MINIÈRE

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                          | Neumático / Pneumatic / Pneumatique           |
|-------------------------------------------------------------|-----------------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail | 6 bar                                         |
| Portabrocas / Chuck / Mandrin                               | 13 mm                                         |
| Capacidad / Capacity / Capacité                             | 13 mm (acero) / 13 mm (steel) / 13 mm (acier) |
| RPM                                                         | 950                                           |
| Potencia / Power / Puissance                                | 0,5 kW                                        |
| Consumo de aire / Air consumption / Consommation d'air      | 0,6 m <sup>3</sup> /min                       |
| Conexión / Connection / Connexion                           | R 1/4"i                                       |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)             | 10 mm                                         |
| Nivel sonoro / Sound level / Niveau sonore                  | 84 db                                         |
| Nivel de vibración / Vibration level / Niveau de vibration  | <2,5 m/s <sup>2</sup>                         |
| Longitud / Length / Longueur                                | 290 mm                                        |
| Designación ATEX / ATEX marking / Marquage ATEX             | Ⓜ I M2 Ex h I Mb T6                           |
| Peso / Weight / Poids                                       | 3,3 kg                                        |

\* 12M



COD.

79906



Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                                                | Neumático / Pneumatic / Pneumatique                                                                   |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail                       | 6 bar                                                                                                 |
| Portabrocas / Chuck / Mandrin                                                     | 13 mm                                                                                                 |
| Capacidad / Capacity / Capacité                                                   | 13 mm (acero) - 20 mm (hormigón)<br>13 mm (steel) - 20 mm (concrete)<br>13 mm (acier) - 20 mm (béton) |
| RPM                                                                               | 950                                                                                                   |
| Potencia / Power / Puissance                                                      | 0,5 kW                                                                                                |
| Consumo de aire / Air consumption / Consommation d'air                            | 0,6 m <sup>3</sup> /min                                                                               |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                                   | ≥ 10 mm                                                                                               |
| Nivel sonoro / Sound level / Niveau sonore                                        | 84 db                                                                                                 |
| Nivel de vibración / Vibration level / Niveau de vibration                        | <2,5 m/s <sup>2</sup>                                                                                 |
| Conexión (entrada/salida) / Connection (inlet/outlet) / Connexion (entrée/sortie) | R 1/4"i - R 3/8"i                                                                                     |
| Longitud / Length / Longueur                                                      | 300 mm                                                                                                |
| Designación ATEX / ATEX marking / Marquage ATEX                                   | Ⓜ II 2G Ex h IIB T6 Gb                                                                                |
| Peso / Weight / Poids                                                             | 3,3 kg                                                                                                |

\* 12M: GARANTÍA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

■ PERCUSIÓN / PERCUSSION / PERCUSSION / SCHLAGZEUG / PERCUSSIONE / PERCUSSÃO / УДАРНЫЙ

■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

■ TALADRO CON PERCUSIÓN / IMPACT DRILL / PERCEUSE À PERCUSSION / SCHLAGBOHRMASCHINE / TRAPANO A PERCUSSIONE / BERBEQUIM DE PERCUSSÃO / УДАРНАЯ ДРЕЛЬ

\* 12M



COD.

79907



Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                   |                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|
| Tipo / Type / Type                                                                | Neumático / Pneumatic / Pneumatique                 |
| Presión de trabajo / Working pressure / Pression de travail                       | 6 bar                                               |
| Capacidad / Capacity / Capacité                                                   | 28 mm (hormigón) / 28 mm (concrete) / 28 mm (béton) |
| RPM                                                                               | 625                                                 |
| Potencia / Power / Puissance                                                      | 0,5 kW                                              |
| Consumo de aire / Air consumption / Consommation d'air                            | 0,6 m <sup>3</sup> /min                             |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                                   | ≥ 10 mm                                             |
| Nivel sonoro / Sound level / Niveau sonore                                        | 93 db                                               |
| Nivel de vibración / Vibration level / Niveau de vibration                        | 4,5 m/s <sup>2</sup>                                |
| Conexión (entrada/salida) / Connection (inlet/outlet) / Connexion (entrée/sortie) | R 1/2" f - R 3/8" f                                 |
| Impactos por minuto / Impacts per minute / Impacts par minute                     | 3000                                                |
| Adaptador / Adapter plug / Adaptateur                                             | SDS-plus®                                           |
| Longitud / Length / Longueur                                                      | 400 mm                                              |
| Designación ATEX / ATEX marking / Marquage ATEX                                   | Ⓢ II 2G Ex h IIB T6 Gb                              |
| Peso / Weight / Poids                                                             | 6,3 kg                                              |

\* 12M



COD.

79908



Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                   |                                                                                                                    |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Tipo / Type / Type                                                                | Neumático / Pneumatic / Pneumatique                                                                                |
| Presión de trabajo / Working pressure / Pression de travail                       | 6 bar                                                                                                              |
| Portabrocas / Chuck / Mandrin                                                     | SDS-max                                                                                                            |
| Capacidad / Capacity / Capacité                                                   | 50 mm (hormigón) - 80 mm (mampostería)<br>50 mm (concrete) - 80 mm (masonry)<br>50 mm (béton) - 80 mm (maçonnerie) |
| RPM                                                                               | 250                                                                                                                |
| Potencia / Power / Puissance                                                      | 1,5 kW                                                                                                             |
| Consumo de aire / Air consumption / Consommation d'air                            | 1,5 m <sup>3</sup> /min                                                                                            |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                                   | ≥ 13 mm                                                                                                            |
| Nivel sonoro / Sound level / Niveau sonore                                        | 90,4 db                                                                                                            |
| Nivel de vibración / Vibration level / Niveau de vibration                        | 9,2 m/s <sup>2</sup>                                                                                               |
| Conexión (entrada/salida) / Connection (inlet/outlet) / Connexion (entrée/sortie) | R 1/2" f - R 3/8" f                                                                                                |
| Impactos por minuto / Impacts per minute / Impacts par minute                     | 2500                                                                                                               |
| Longitud / Length / Longueur                                                      | 640 mm                                                                                                             |
| Designación ATEX / ATEX marking / Marquage ATEX                                   | Ⓢ II 2G Ex h IIB T6 Gb                                                                                             |
| Peso / Weight / Poids                                                             | 13,3 kg                                                                                                            |

■ PERCUSIÓN / PERCUSSION / PERCUSSION / SCHLAGZEUG / PERCUSSIONE / PERCUSSÃO / УДАРНЫЙ

■ HIDRÁULICA / HIDRAULIC / HYDRAULIQUE / HYDRAULISCH / IDRAULICA / HIDRÁULICA / ГИДРАВЛИЧЕСКИЙ

■ TALADRO CON PERCUSIÓN / IMPACT DRILL / PERCEUSE À PERCUSSION / SCHLAGBOHRMASCHINE / TRAPANO A PERCUSSIONE / BERBEQUIM DE PERCUSSÃO / УДАРНАЯ ДРЕЛЬ

\* 12M



COD.

79915



Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                               |                                                                                                                    |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Tipo / Type / Type                                            | Hidráulico / Hydraulic / Hydraulique                                                                               |
| Presión de trabajo / Working pressure / Pression de travail   | 80 bar                                                                                                             |
| Impactos por minuto / Impacts per minute / Impacts par minute | 3400                                                                                                               |
| Capacidad / Capacity / Capacité                               | 28 mm (hormigón) - 50 mm (mampostería)<br>28 mm (concrete) - 50 mm (masonry)<br>28 mm (béton) - 50 mm (maçonnerie) |
| RPM                                                           | 500                                                                                                                |
| Potencia / Power / Puissance                                  | 1,2 kW                                                                                                             |
| Caudal hidráulico / Oil flow / Flux d'huile                   | 15-45 l/min                                                                                                        |
| Conexión / Connection / Connexion                             | 3/4"-16UNF                                                                                                         |
| Adaptador / Adapter plug / Adaptateur                         | SDS-plus®                                                                                                          |
| Nivel sonoro / Sound level / Niveau sonore                    | 92 db                                                                                                              |
| Nivel de vibración / Vibration level / Niveau de vibration    | 4,5 m/s <sup>2</sup>                                                                                               |
| Longitud / Length / Longueur                                  | 460 mm                                                                                                             |
| Designación ATEX / ATEX marking / Marquage ATEX               | Ⓢ II 2G Ex h IIB T5 Gb                                                                                             |
| Peso / Weight / Poids                                         | 8,2 kg                                                                                                             |

\* 12M



COD.

79916



Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

Para más información técnica o sobre los accesorios consultar en [www.egamaster.com](http://www.egamaster.com) / For more technical information or accessories check [www.egamaster.com](http://www.egamaster.com) / Pour de plus amples informations techniques et des accessoires, veuillez consulter le site [www.egamaster.com](http://www.egamaster.com)

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                               |                                                                                                                    |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Tipo / Type / Type                                            | Hidráulico / Hydraulic / Hydraulique                                                                               |
| Presión de trabajo / Working pressure / Pression de travail   | 80 bar                                                                                                             |
| Impactos por minuto / Impacts per minute / Impacts par minute | 2300                                                                                                               |
| Capacidad / Capacity / Capacité                               | 50 mm (hormigón) - 80 mm (mampostería)<br>50 mm (concrete) - 80 mm (masonry)<br>50 mm (béton) - 80 mm (maçonnerie) |
| RPM                                                           | 270                                                                                                                |
| Potencia / Power / Puissance                                  | 1,2 kW                                                                                                             |
| Caudal hidráulico / Oil flow / Flux d'huile                   | 15-45 l/min                                                                                                        |
| Conexión / Connection / Connexion                             | 3/4"-16UNF                                                                                                         |
| Adaptador / Adapter plug / Adaptateur                         | SDS-max                                                                                                            |
| Nivel sonoro / Sound level / Niveau sonore                    | 92 db                                                                                                              |
| Nivel de vibración / Vibration level / Niveau de vibration    | 9 m/s <sup>2</sup>                                                                                                 |
| Longitud / Length / Longueur                                  | 640 mm                                                                                                             |
| Designación ATEX / ATEX marking / Marquage ATEX               | Ⓢ II 2G Ex h IIB T5 Gb                                                                                             |
| Peso / Weight / Poids                                         | 14 kg                                                                                                              |

\* 12M: GARANTÍA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ



## ■ LLAVES DE IMPACTO / IMPACT WRENCHES / CLÉS À CHOC / SCHLAGSCHRAUBER / AVVITATORI AD IMPULSI / CHAVES DE IMPACTO / УДАРНЫЕ ГАЙКОВЕРТЫ

Las llaves de impacto se utilizan para aplicar altos pares a tornillos de todo tipo con el simple accionamiento de un gatillo. De esta manera, podremos apretar y aflojar tornillos (por muy oxidados que éstos estén) que a mano nos sería imposible. Es muy importante tener en cuenta la medida de los tornillos con los que se va a trabajar porque no todos aguantaran el par máximo que estas llaves son capaces de aplicar.

Impact wrenches are used to apply high torque to nuts of all kinds. Thus, we can tighten and loosen the nuts (even very oxidized ones) that would be impossible to do by hand. It is very important to consider which nuts we will work on, because not all of them will stand the maximum torque that these wrenches are able to apply.

Les clés à choc s'utilisent pour appliquer un serrage important de tout type de boulons, en actionnant tout simplement une gâchette. De cette façon, il est possible de serrer ou de desserrer des écrous (même très oxydés) qui serait impossible manuellement. Il est important de prendre en compte le diamètre des écrous à travailler car tous ne pourront pas supporter le couple maximum que ces clés sont capables d'appliquer.

### ■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

\* 12M CE



COD.  
79610

#### Zonas / Zones

M2 MINERÍA / MINING / MINIERE

#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                                  | Neumático / Pneumatic / Pneumatique |
|---------------------------------------------------------------------|-------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail         | 6 bar                               |
| Cuadrado conductor / Square drive / Carré conducteur                | 1/2"                                |
| Par de apriete / Torque / Paire de serrage                          | 610 Nm                              |
| Consumo de aire / Air consumption / Consommation d'air              | 0,32 m <sup>3</sup> /min            |
| Para pernos y tuercas / For bolts and nuts / Pour boulons et écrous | ≤ M20 (30 mm AF)                    |
| Conexión / Connection / Connexion                                   | R 1/4"f                             |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                     | 10 mm                               |
| Nivel sonoro / Sound level / Niveau sonore                          | 90 db                               |
| Nivel de vibración / Vibration level / Niveau de vibration          | <2,6 m/s <sup>2</sup>               |
| Longitud / Length / Longueur                                        | 160 mm                              |
| Designación ATEX / ATEX marking / Marquage ATEX                     | Ⓢ I M2 c T6                         |
| Peso / Weight / Poids                                               | 3,6 kg                              |

\* 12M CE



COD.  
76739  
76742

#### Zonas / Zones

M2 MINERÍA / MINING / MINIERE

#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                                  | Neumático / Pneumatic / Pneumatique |
|---------------------------------------------------------------------|-------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail         | 6 bar                               |
| Cuadrado conductor / Square drive / Carré conducteur                | 76739 3/4"<br>76742 1"              |
| Par de apriete / Torque / Paire de serrage                          | 1350 Nm                             |
| Consumo de aire / Air consumption / Consommation d'air              | 1,4 m <sup>3</sup> /min             |
| Para pernos y tuercas / For bolts and nuts / Pour boulons et écrous | ≤ M30 (46 mm AF)                    |
| Conexión / Connection / Connexion                                   | R 1/4"f                             |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                     | 13 mm                               |
| Nivel sonoro / Sound level / Niveau sonore                          | 96 db                               |
| Nivel de vibración / Vibration level / Niveau de vibration          | 4,5 m/s <sup>2</sup>                |
| Designación ATEX / ATEX marking / Marquage ATEX                     | Ⓢ I M2 c T6                         |
| Peso / Weight / Poids                                               | 76739 6,4 kg<br>76742 6,5 kg        |



Vasos de impacto antichispa - Cuadrado 1/2", 3/4", 1" y 1.1/2" - Ver capítulo de Antichispa.  
Non-sparking impact socket wrenches - 1/2", 3/4", 1" and 1.1/2" Sq. Drive - See Non-sparking chapter.  
Douilles à choc anti-déflagrant - Carrée de 1/2", 3/4", 1" et 1.1/2" - Voir chapitre Anti-déflagrant.

■ LLAVES DE IMPACTO / IMPACT WRENCHES / CLÉS À CHOC / SCHLAGSCHRAUBER / AVVITATORI AD IMPULSI / CHAVES DE IMPACTO / УДАРНЫЕ ГАЙКОВЕРТЫ

■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

\* 12M CE



COD.

79626

79612

Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                                  | Neumático / Pneumatic / Pneumatique |
|---------------------------------------------------------------------|-------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail         | 6 bar                               |
| Cuadrado conductor / Square drive / Carré conducteur                |                                     |
|                                                                     | 79626 3/4"                          |
|                                                                     | 79612 1"                            |
| Par de apriete / Torque / Paire de serrage                          | 1350 Nm                             |
| Consumo de aire / Air consumption / Consommation d'air              | 1,40 m <sup>3</sup> /min            |
| Para pernos y tuercas / For bolts and nuts / Pour boulons et écrous | ≤ M30 (46 mm AF)                    |
| Conexión / Connection / Connexion                                   |                                     |
|                                                                     | 79626 R 1/4"f                       |
|                                                                     | 79612 R 1/2"i                       |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                     | 13 mm                               |
| Nivel sonoro / Sound level / Niveau sonore                          | 96 db                               |
| Nivel de vibración / Vibration level / Niveau de vibration          | 4,5 m/s <sup>2</sup>                |
| Longitud / Length / Longueur                                        |                                     |
|                                                                     | 79626 220 mm                        |
|                                                                     | 79612 230 mm                        |
| Designación ATEX / ATEX marking / Marquage ATEX                     | Ⓢ II 2G Ex h IIB T6 Gb              |
| Peso / Weight / Poids                                               |                                     |
|                                                                     | 79626 5,6 kg                        |
|                                                                     | 79612 5,7 kg                        |

\* 12M CE



COD.

79902

79903

Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                                  | Neumático / Pneumatic / Pneumatique |
|---------------------------------------------------------------------|-------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail         | 6 bar                               |
| Cuadrado conductor / Square drive / Carré conducteur                |                                     |
|                                                                     | 79902 3/4"                          |
|                                                                     | 79903 1"                            |
| Par de apriete / Torque / Paire de serrage                          | 1350 Nm                             |
| Consumo de aire / Air consumption / Consommation d'air              | 1,4 m <sup>3</sup> /min             |
| Para pernos y tuercas / For bolts and nuts / Pour boulons et écrous | ≤ M30 (46 mm AF)                    |
| Conexión / Connection / Connexion                                   | R 1/2"f - R 1/2"f                   |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                     | 13 mm                               |
| Nivel sonoro / Sound level / Niveau sonore                          | 96 db                               |
| Nivel de vibración / Vibration level / Niveau de vibration          |                                     |
|                                                                     | 79902 6,2 m/s <sup>2</sup>          |
|                                                                     | 79903 4,5 m/s <sup>2</sup>          |
| Designación ATEX / ATEX marking / Marquage ATEX                     | Ⓢ II 2G c T6                        |
| Peso / Weight / Poids                                               |                                     |
|                                                                     | 79902 5,6 kg                        |
|                                                                     | 79903 5,5 kg                        |



Vasos de impacto antichispa - Cuadrado 1/2", 3/4", 1" y 1.1/2" - Ver capítulo de Antichispa.  
Non-sparking impact socket wrenches - 1/2", 3/4", 1" and 1.1/2" Sq. Drive - See Non-sparking chapter.  
Douilles à choc anti-déflagrant - Carrée de 1/2", 3/4", 1" et 1.1/2" - Voir chapitre Anti-déflagrant.

\* 12M: GARANTÍA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

■ LLAVES DE IMPACTO / IMPACT WRENCHES / CLÉS À CHOC / SCHLAGSCHRAUBER / AVVITATORI AD IMPULSI / CHAVES DE IMPACTO / УДАРНЫЕ ГАЙКОВЕРТЫ

■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

\* 12M



COD.

79613

76747



Zonas / Zones

M2 MINERÍA / MINING / MINIÈRE

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                                  | Neumático / Pneumatic / Pneumatique |                          |
|---------------------------------------------------------------------|-------------------------------------|--------------------------|
| Presión de trabajo / Working pressure / Pression de travail         | 6 bar                               |                          |
| Cuadrado conductor / Square drive / Carré conducteur                | 79613                               | 1"                       |
|                                                                     | 76747                               | 1.1/2"                   |
| Par de apriete / Torque / Paire de serrage                          | 79613                               | 1800 Nm                  |
|                                                                     | 76747                               | 4400 Nm                  |
| Consumo de aire / Air consumption / Consommation d'air              | 79613                               | 1,10 m <sup>3</sup> /min |
|                                                                     | 76747                               | 1,6 m <sup>3</sup> /min  |
| Para pernos y tuercas / For bolts and nuts / Pour boulons et écrous | 79613                               | ≤ M33 (50 mm AF)         |
|                                                                     | 76747                               | ≤ M56 (85 mm AF)         |
| Conexión / Connection / Connexion                                   | 79613                               | Rd 32 x 1/8"a            |
|                                                                     | 76747                               | R 1/2"f - Rd 32 x 1/8"m  |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                     | 79613                               | 13 mm                    |
|                                                                     | 76747                               | 15 mm                    |
| Nivel sonoro / Sound level / Niveau sonore                          | 92 db                               |                          |
| Nivel de vibración / Vibration level / Niveau de vibration          | 79613                               | 3,2 m/s <sup>2</sup>     |
|                                                                     | 76747                               | 5,5 m/s <sup>2</sup>     |
| Longitud / Length / Longueur                                        | 79613                               | 280 mm                   |
|                                                                     | 76747                               | 370 mm                   |
| Designación ATEX / ATEX marking / Marquage ATEX                     | Ⓢ I M2 c T6                         |                          |
| Peso / Weight / Poids                                               | 79613                               | 9,0 kg                   |
|                                                                     | 76747                               | 14,9 kg                  |



Vasos de impacto antichispa - Cuadrado 1/2", 3/4", 1" y 1.1/2" - Ver capítulo de Antichispa.  
Non-sparking impact socket wrenches - 1/2", 3/4", 1" and 1.1/2" Sq. Drive - See Non-sparking chapter.  
Douilles à choc anti-déflagrant - Carrée de 1/2", 3/4", 1" et 1.1/2" - Voir chapitre Anti-déflagrant.

■ LLAVES DE IMPACTO / IMPACT WRENCHES / CLÉS À CHOC / SCHLAGSCHRAUBER / AVVITATORI AD IMPULSI / CHAVES DE IMPACTO / УДАРНЫЕ ГАЙКОВЕРТЫ

■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

\* 12M CE



COD.

79631



Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                                  | Neumático / Pneumatic / Pneumatique |
|---------------------------------------------------------------------|-------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail         | 6 bar                               |
| Cuadrado conductor / Square drive / Carré conducteur                | 1.1/2"                              |
| Par de apriete / Torque / Paire de serrage                          | 4400 Nm                             |
| Consumo de aire / Air consumption / Consommation d'air              | 1,6 m <sup>3</sup> /min             |
| Para pernos y tuercas / For bolts and nuts / Pour boulons et écrous | ≤ M56 (85 mm AF)                    |
| Conexión / Connection / Connexion                                   | R 1/2"i                             |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                     | 15 mm                               |
| Nivel sonoro / Sound level / Niveau sonore                          | 107 db                              |
| Nivel de vibración / Vibration level / Niveau de vibration          | <6,6 m/s <sup>2</sup>               |
| Designación ATEX / ATEX marking / Marquage ATEX                     | Ⓜ II 2G c T6                        |
| Peso / Weight / Poids                                               | 12,2 kg                             |

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Vasos de impacto antichispa - Cuadrado 1/2", 3/4", 1" y 1.1/2" - Ver capítulo de Antichispa.  
Non-sparking impact socket wrenches - 1/2", 3/4", 1" and 1.1/2" Sq. Drive - See Non-sparking chapter.  
Douilles à choc anti-déflagrant - Carrée de 1/2", 3/4", 1" et 1.1/2" - Voir chapitre Anti-déflagrant.

\* 12M: GARANTÍA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

■ LLAVES DE IMPACTO / IMPACT WRENCHES / CLÉS À CHOC / SCHLAGSCHRAUBER / AVVITATORI AD IMPULSI / CHAVES DE IMPACTO / УДАРНЫЕ ГАЙКОВЕРТЫ

■ HIDRÁULICA / HIDRAULIC / HYDRAULIQUE / HYDRAULISCH / IDRAULICA / HIDRÁULICA / ГИДРАВЛИЧЕСКИЙ

\* 12M CE



COD.

79662

Zonas / Zones

M2 MINERÍA / MINING / MINIÈRE

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                                  | Hidráulico / Hydraulic / Hydraulique |
|---------------------------------------------------------------------|--------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail         | 70-140 bar                           |
| Cuadrado conductor / Square drive / Carré conducteur                | 3/4"                                 |
| Par máx. / Torque max. / Paire max.                                 | 1700 Nm                              |
| Caudal hidráulico / Oil flow / Flux d'huile                         | 20-40 l/min                          |
| Para pernos y tuercas / For bolts and nuts / Pour boulons et écrous | <= M30 (46 mm AF)                    |
| Conexión / Connection / Connexion                                   | M18 x 1,5                            |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                     | 12 mm                                |
| Nivel sonoro / Sound level / Niveau sonore                          | 85,3                                 |
| Nivel de vibración / Vibration level / Niveau de vibration          | 3,8 m/s <sup>2</sup>                 |
| Longitud / Length / Longueur                                        | 245                                  |
| Designación ATEX / ATEX marking / Marquage ATEX                     | Ⓜ I M2 Ex h I Mb T5                  |
| Peso / Weight / Poids                                               | 9,0 kg                               |

\* 12M CE



COD.

79917

79918

Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                                  | Hidráulico / Hydraulic / Hydraulique |
|---------------------------------------------------------------------|--------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail         | 70-140 bar                           |
| Cuadrado conductor / Square drive / Carré conducteur                | 79917 3/4"<br>79918 1"               |
| Par máx. / Torque max. / Paire max.                                 | 1700 Nm                              |
| Caudal hidráulico / Oil flow / Flux d'huile                         | 20-40 l/min                          |
| Para pernos y tuercas / For bolts and nuts / Pour boulons et écrous | <= M30 (46 mm AF)                    |
| Conexión / Connection / Connexion                                   | M18 x 1,5                            |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                     | 12 mm                                |
| Nivel sonoro / Sound level / Niveau sonore                          | 85,3 db                              |
| Nivel de vibración / Vibration level / Niveau de vibration          | 3,8 m/s <sup>2</sup>                 |
| Longitud / Length / Longueur                                        | 245 mm                               |
| Designación ATEX / ATEX marking / Marquage ATEX                     | Ⓜ II 2G Ex h IIB T5 Gb               |
| Peso / Weight / Poids                                               | 7,3 kg                               |



Vasos de impacto antichispa - Cuadrado 1/2", 3/4", 1" y 1.1/2" - Ver capítulo de Antichispa.  
Non-sparking impact socket wrenches - 1/2", 3/4", 1" and 1.1/2" Sq. Drive - See Non-sparking chapter.  
Douilles à choc anti-déflagrant - Carrée de 1/2", 3/4", 1" et 1.1/2" - Voir chapitre Anti-déflagrant.

■ LLAVES DE IMPACTO / IMPACT WRENCHES / CLÉS À CHOC / SCHLAGSCHRAUBER / AVVITATORI AD IMPULSI / CHAVES DE IMPACTO / УДАРНЫЕ ГАЙКОВЕРТЫ

■ HIDRÁULICA / HIDRAULIC / HYDRAULIQUE / HYDRAULISCH / IDRAULICA / HIDRÁULICA / ГИДРАВЛИЧЕСКИЙ

\* 12M



COD.

79919



Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

Para más información técnica o sobre los accesorios consultar en [www.egamaster.com](http://www.egamaster.com) / For more technical information or accessories check [www.egamaster.com](http://www.egamaster.com) / Pour de plus amples informations techniques et des accessoires, veuillez consulter le site [www.egamaster.com](http://www.egamaster.com)

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                                  | Hidráulico / Hydraulic / Hydraulique |
|---------------------------------------------------------------------|--------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail         | 140 bar                              |
| Cuadrado conductor / Square drive / Carré conducteur                | 1"                                   |
| Par / Torque / Paire                                                | 2500 Nm                              |
| Caudal hidráulico / Oil flow / Flux d'huile                         | 25-45 l/min                          |
| Para pernos y tuercas / For bolts and nuts / Pour boulons et écrous | ≤ M36 (55 mm AF)                     |
| Conexión / Connection / Connexion                                   | 1/2"FF                               |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                     | 12 mm                                |
| Designación ATEX / ATEX marking / Marquage ATEX                     | Ⓔ II 2G Ex h IIB T5 Gb               |
| Peso / Weight / Poids                                               | 10,7 kg                              |



Vasos de impacto antichispa - Cuadrado 1/2", 3/4", 1" y 1.1/2" - Ver capítulo de Antichispa.  
Non-sparking impact socket wrenches - 1/2", 3/4", 1" and 1.1/2" Sq. Drive - See Non-sparking chapter.  
Douilles à choc anti-déflagrant - Carrée de 1/2", 3/4", 1" et 1.1/2" - Voir chapitre Anti-déflagrant.

\* 12M: GARANTÍA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

## LLAVE DINAMOMÉTRICA / TORQUE WRENCH / CLÉ DYNAMOMÉTRIQUE / DREHMOMENT-SCHRAUBENSCHLÜSSEL / CHIAVE DINAMOMETRICA / CHAVE DINAMOMÉTRICA / ДИНАМОМЕТРИЧЕСКИЕ КЛЮЧИ

Las llaves dinamométricas ATEX de EGA Master también llamadas llaves de torsión, son herramientas que se utilizan para ajustar el par de apriete de elementos roscados. Disponen de un mecanismo, que hace que una vez alcanzado el par deseado, la llave no transmita más par al elemento que estamos apretando.

The EGA Master ATEX torque wrenches are used to adjust the torque of threaded elements. They have a mechanism which avoids transferring extra torque after reaching the desired torque value.

Les clés dynamométriques ATEX d'EGA Master, également appelées clés de torsion, sont des outils qui s'utilisent pour ajuster le couple de serrage d'éléments filetés. Elles sont dotées d'un système automatique de désenclenchement de serrage une fois atteint le couple sélectionné.

### NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

\* 12M



COD.

79607

#### Zonas / Zones

M2 MINERÍA / MINING / MINIÈRE

#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                     |                                                                   |
|---------------------------------------------------------------------|-------------------------------------------------------------------|
| Tipo / Type / Type                                                  | Neumático / Pneumatic / Pneumatique                               |
| Presión de trabajo / Working pressure / Pression de travail         | 4/6 bar                                                           |
| Cuadrado conductor / Square drive / Carré conducteur                | 1"                                                                |
| Precisión / Accuracy / Précision                                    | ±5-10%                                                            |
| Par de apriete / Torque / Paire de serrage                          | 4 bar: 650 Nm / 6 bar: 750 Nm                                     |
| Consumo de aire / Air consumption / Consommation d'air              | 4 bar: 0,55 m <sup>3</sup> /min / 6 bar: 0,75 m <sup>3</sup> /min |
| Para pernos y tuercas / For bolts and nuts / Pour boulons et écrous | ≤ M30 (46 mm AF)                                                  |
| Reversible / Reversible / Réversible                                | ●                                                                 |
| Conexión / Connection / Connexion                                   | Rd 32 x 1/8"                                                      |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                     | 10 mm                                                             |
| Nivel sonoro / Sound level / Niveau sonore                          | 86,4 db                                                           |
| Nivel de vibración / Vibration level / Niveau de vibration          | <2,5 m/s <sup>2</sup>                                             |
| Designación ATEX / ATEX marking / Marquage ATEX                     | Ⓢ I M2 c T6                                                       |
| Peso / Weight / Poids                                               | 7,8 kg                                                            |

\* 12M



COD.

79608

#### Zonas / Zones

M2 MINERÍA / MINING / MINIÈRE

#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                     |                                                                   |
|---------------------------------------------------------------------|-------------------------------------------------------------------|
| Tipo / Type / Type                                                  | Neumático / Pneumatic / Pneumatique                               |
| Presión de trabajo / Working pressure / Pression de travail         | 4/6 bar                                                           |
| Cuadrado conductor / Square drive / Carré conducteur                | 1"                                                                |
| Precisión / Accuracy / Précision                                    | ±5-10%                                                            |
| Par de apriete / Torque / Paire de serrage                          | 4 bar: 1500 Nm / 6 bar: 1800 Nm                                   |
| Consumo de aire / Air consumption / Consommation d'air              | 4 bar: 0,55 m <sup>3</sup> /min / 6 bar: 0,65 m <sup>3</sup> /min |
| Para pernos y tuercas / For bolts and nuts / Pour boulons et écrous | ≤ M30 (46 mm AF)                                                  |
| Reversible / Reversible / Réversible                                | ●                                                                 |
| Conexión / Connection / Connexion                                   | Rd 32 x 1/8"                                                      |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                     | 10 mm                                                             |
| Nivel sonoro / Sound level / Niveau sonore                          | 86,4 db                                                           |
| Nivel de vibración / Vibration level / Niveau de vibration          | <2,5 m/s <sup>2</sup>                                             |
| Designación ATEX / ATEX marking / Marquage ATEX                     | Ⓢ I M2 c T6                                                       |
| Peso / Weight / Poids                                               | 8,6 kg                                                            |



Vasos de impacto antichispa - Cuadrado 1/2", 3/4", 1" y 1.1/2" - Ver capítulo de Antichispa.  
Non-sparking impact socket wrenches - 1/2", 3/4", 1" and 1.1/2" Sq. Drive - See Non-sparking chapter.  
Douilles à choc anti-déflagrant - Carrée de 1/2", 3/4", 1" et 1.1/2" - Voir chapitre Anti-déflagrant.

LLAVE DINAMOMÉTRICA / TORQUE WRENCH / CLÉ DYNAMOMÉTRIQUE / DREHMOMENT-SCHRAUBENSCHLÜSSEL / CHIAVE DINAMOMETRICA / CHAVE DINAMOMÉTRICA / ДИНАМОМЕТРИЧЕСКИЕ КЛЮЧИ

■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

\* 12M



COD.

79609



Zonas / Zones

M2 MINERÍA / MINING / MINIÈRE

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                     |                                                                   |
|---------------------------------------------------------------------|-------------------------------------------------------------------|
| Tipo / Type / Type                                                  | Neumático / Pneumatic / Pneumatique                               |
| Presión de trabajo / Working pressure / Pression de travail         | 4/6 bar                                                           |
| Cuadrado conductor / Square drive / Carré conducteur                | 1.1/2"                                                            |
| Precisión / Accuracy / Précision                                    | ±5-10%                                                            |
| Par de apriete / Torque / Paire de serrage                          | 4 bar: 2800 Nm / 6 bar: 3600 Nm                                   |
| Consumo de aire / Air consumption / Consommation d'air              | 4 bar: 1,30 m <sup>3</sup> /min / 6 bar: 1,70 m <sup>3</sup> /min |
| Para pernos y tuercas / For bolts and nuts / Pour boulons et écrous | ≤ M48 (75 mm AF)                                                  |
| Reversible / Reversible / Réversible                                | ●                                                                 |
| Conexión / Connection / Connexion                                   | Rd 32 x 1/8"                                                      |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                     | 10 mm                                                             |
| Nivel sonoro / Sound level / Niveau sonore                          | 93 db                                                             |
| Nivel de vibración / Vibration level / Niveau de vibration          | <2,5 m/s <sup>2</sup>                                             |
| Designación ATEX / ATEX marking / Marquage ATEX                     | Ⓢ I M2 c T6                                                       |
| Peso / Weight / Poids                                               | 14,9 kg                                                           |

EGGA Master  
ART IN INNOVATION



Vasos de impacto antichispa - Cuadrado 1/2", 3/4", 1" y 1.1/2" - Ver capítulo de Antichispa.  
Non-sparking impact socket wrenches - 1/2", 3/4", 1" and 1.1/2" Sq. Drive - See Non-sparking chapter.  
Douilles à choc anti-déflagrant - Carrée de 1/2", 3/4", 1" et 1.1/2" - Voir chapitre Anti-déflagrant.

\* 12M: GARANTÍA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ



## ■ SIERRAS / SAWS / SCIES / SÄGEN / SEGNETTO / SERRAS / ПИЛЫ

Las sierras de cinta o de banda de EGA Master, tiene una hoja metálica dentada, larga, estrecha y flexible que se desplaza sobre dos ruedas que se encuentran en el mismo plano vertical. Sus aplicaciones son muy variadas: construcción, corte de tuberías, refinerías... y son capaces de cortar: plástico, madera, acero, INOX...

Las sierras portátiles son herramientas necesarias para poder realizar todo tipo de cortes; cortes cruzados, rectos, cortes curvos, cortes en pico, biselados, etc...

*EGA Master band saw has a long, narrow and flexible toothed metal saw blade that moves on two wheels which are in the same vertical plane. Its applications are varied: construction, pipe cutting, refineries... Besides, they are capable of cutting: plastic, wood, steel, stainless steel...*

*Portable saws are necessary to perform all type of cutting, cross, straight, curved, cuts in peak, beveled, etc...*

Les scies à ruban ou à bande d'EGA Master, a une bande métallique dentée, étroite et flexible qui se déplace sur deux roues se trouvant au même niveau verticalement. Ses applications sont diverses: construction, coupure de tuyauterie et raffinerie... et sont capables de couper du plastique, du bois, de l'acier, de l'INOX...

Les scies portables sont des outils nécessaires afin de réaliser tous types de coupures : croisées, droites, courbées, en pic, biseautées, etc...

## ■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

### ■ SIERRA DE BANDA / BAND SAW / SCIE À RUBAN / BANDSÄGE / SEGA DI NASTRO / SERRA DE FITA / ЛЕНТОЧНАЯ ПИЛА

\* 12M



COD.

79616

79469



Zonas / Zones

M2 MINERÍA / MINING / MINIERE

#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                             | Neumático / Pneumatic / Pneumatique                    |
|----------------------------------------------------------------|--------------------------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail    |                                                        |
|                                                                | 79616 6 bar                                            |
|                                                                | 79469 4-6 bar                                          |
| Capacidad de corte / Cutting capacity / Capacité de coupe      |                                                        |
|                                                                | 79616 Ø 180 mm / A x B = 180 x 180 mm / A x B = 7 x 7" |
|                                                                | 79469 Ø 180 mm / A x B = 180 x 240 mm / A x B = 7 x 9" |
| Potencia / Power / Puissance                                   | 1 kW                                                   |
| Consumo de aire / Air consumption / Consommation d'air         | 1,2 m <sup>3</sup> /min                                |
| Conexión / Connection / Connexion                              | R 1/2"i                                                |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                | 13 mm                                                  |
| Nivel sonoro / Sound level / Niveau sonore                     |                                                        |
|                                                                | 79616 81,7 db                                          |
|                                                                | 79469 87,0 db                                          |
| Nivel de vibración / Vibration level / Niveau de vibration     | <2,5 m/s <sup>2</sup>                                  |
| Material de la carcasa / Casing material / Matière de la coque | Inox / Inox / Inox                                     |
| L x W x H                                                      |                                                        |
|                                                                | 79616 730 x 285 x 290 mm                               |
|                                                                | 79469 790 x 285 x 290 mm                               |
| Designación ATEX / ATEX marking / Marquage ATEX                | Ⓢ I M2 Ex h I Mb T6                                    |
| Peso / Weight / Poids                                          |                                                        |
|                                                                | 79616 13 kg                                            |
|                                                                | 79469 16 kg                                            |

■ SIERRAS / SAWS / SCIES / SÄGEN / SEGNETTO / SERRAS / ПИЛЫ

■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

■ SIERRA DE BANDA / BAND SAW / SCIE À RUBAN / BANDSÄGE / SEGA DI NASTRO / SERRA DE FITA / ЛЕНТОЧНАЯ ПИЛА

\* 12M



COD.

79658



Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                             | Neumático / Pneumatic / Pneumatique            |
|----------------------------------------------------------------|------------------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail    | 6 bar                                          |
| Capacidad de corte / Cutting capacity / Capacité de coupe      | ø80 mm / A x B = 80 x 100 mm / A x B = 3" x 4" |
| Potencia / Power / Puissance                                   | 0,5 kW                                         |
| Consumo de aire / Air consumption / Consommation d'air         | 0,5 m <sup>3</sup> /min                        |
| Conexión / Connection / Connexion                              | R 1/4"                                         |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                | 7 mm                                           |
| Nivel sonoro / Sound level / Niveau sonore                     | 87,0 db                                        |
| Nivel de vibración / Vibration level / Niveau de vibration     | <2,5 m/s <sup>2</sup>                          |
| Material de la carcasa / Casing material / Matière de la coque | Aluminio / Aluminum / Aluminium                |
| L x W x H                                                      | 640 x 390 x 315 mm                             |
| Designación ATEX / ATEX marking / Marquage ATEX                | Ⓔ II 2G Ex h IIB T6 Gb                         |
| Peso / Weight / Poids                                          | 19 kg                                          |

■ SIERRAS PORTÁTILES / RECIPROCATING SAWS / SCIES PORTABLES / STICHSÄGE / SEGNETTI PORTATILI / SERRAS PORTÁTEIS / ПИЛЫ ВОЗВРАТНО-ПОСТУПАТЕЛЬНОГО ДЕЙСТВИЯ

\* 12M



COD.

79617



Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                             | Neumático / Pneumatic / Pneumatique |
|----------------------------------------------------------------|-------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail    | 6 bar                               |
| Tipo de válvula / Valve type / Type de valve                   | Twist2                              |
| N.º de golpes / Number of strokes / Nro. de coups              | 330 (1/min)                         |
| Potencia / Power / Puissance                                   | 1,1 kW                              |
| Consumo de aire / Air consumption / Consommation d'air         | 1,45 m <sup>3</sup> /min            |
| Carrera / Stroke / Parcours                                    | 60 mm                               |
| Conexión / Connection / Connexion                              | R 3/4"a                             |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                | 13 mm                               |
| Nivel sonoro / Sound level / Niveau sonore                     | 84 db                               |
| Nivel de vibración / Vibration level / Niveau de vibration     | <2,5 m/s <sup>2</sup>               |
| Material de la carcasa / Casing material / Matière de la coque | Aluminio / Aluminum / Aluminium     |
| Designación ATEX / ATEX marking / Marquage ATEX                | Ⓔ II 2G Ex h IIB T5 Gb              |
| Peso / Weight / Poids                                          | 7,5 kg                              |

\* 12M: GARANTÍA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

■ SIERRAS / SAWS / SCIÉS / SÄGEN / SEGNETTO / SERRAS / ПИЛЫ

■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

■ SIERRAS PORTÁTILES / RECIPROCATING SAWS / SCIÉS PORTABLES / STICHSÄGE / SEGNETTI PORTATILI / SERRAS PORTÁTEIS / ПИЛЫ ВОЗВРАТНО-ПОСТУПАТЕЛЬНОГО ДЕЙСТВИЯ

\* 12M CE



COD.

79618



Zonas / Zones

M2 MINERÍA / MINING / MINIERE

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                             | Neumático / Pneumatic / Pneumatique |
|----------------------------------------------------------------|-------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail    | 6 bar                               |
| Tipo de válvula / Valve type / Type de valve                   | Twist2                              |
| N.º de golpes / Number of strokes / Nro. de coups              | 330 (1/min)                         |
| Potencia / Power / Puissance                                   | 1,1 kW                              |
| Consumo de aire / Air consumption / Consommation d'air         | 1,45 m³/min                         |
| Carrera / Stroke / Parcours                                    | 60 mm                               |
| Conexión / Connection / Connexion                              | R 3/4" a                            |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                | 13 mm                               |
| Nivel sonoro / Sound level / Niveau sonore                     | 84 db                               |
| Nivel de vibración / Vibration level / Niveau de vibration     | <2,5 m/s²                           |
| Material de la carcasa / Casing material / Matière de la coque | Zamak                               |
| Designación ATEX / ATEX marking / Marquage ATEX                | ⊕ I M2 Ex h I Mb T5                 |
| Peso / Weight / Poids                                          | 7,5 kg                              |

■ SIERRA DE SABLE / SABLE SAW / SCIE SABRE / SÄBELSÄGE / SEGNETTO ALTERNATIVO / SERRA DE SABRE / САБЕЛЬНАЯ ПИЛА

\* 12M CE



COD.

79666



Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                          | Neumático / Pneumatic / Pneumatique                                                         |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail | 6 bar                                                                                       |
| Carrera / Stroke / Parcours                                 | 28 mm                                                                                       |
| N.º de golpes / Number of strokes / Nro. de coups           | 1200 rpm                                                                                    |
| Potencia / Power / Puissance                                | 1KW                                                                                         |
| Consumo de aire / Air consumption / Consommation d'air      | 1,3 m³/min                                                                                  |
| Capacidad de corte / Cutting capacity / Capacité de coupe   | Madera: 160 mm - Acero: 19 mm<br>Wood: 160 mm - Steel: 19 mm<br>Bois: 160 mm - Acier: 19 mm |
| Nivel sonoro / Sound level / Niveau sonore                  | 81-92 db                                                                                    |
| Designación ATEX / ATEX marking / Marquage ATEX             | ⊕ II 2G Ex h IIB T5 Gb                                                                      |
| Peso / Weight / Poids                                       | 4,0 kg                                                                                      |

■ SIERRAS / SAWS / SCIES / SÄGEN / SEGHETTO / SERRAS / ПИЛЫ

■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

■ SIERRA DE SABLE / SABLE SAW / SCIE SABRE / SÄBELSÄGE / SEGHETTO ALTERNATIVO / SERRA DE SABRE / САБЕЛЬНАЯ ПИЛА

\* 12M



COD.

79816



Zonas / Zones

M2 MINERÍA / MINING / MINIÈRE

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

Para más información técnica o sobre los accesorios consultar en [www.egamaster.com](http://www.egamaster.com) / For more technical information or accessories check [www.egamaster.com](http://www.egamaster.com) / Pour de plus amples informations techniques et des accessoires, veuillez consulter le site [www.egamaster.com](http://www.egamaster.com)

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                          | Neumático / Pneumatic / Pneumatique                                                         |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail | 6 bar                                                                                       |
| Carrera / Stroke / Parcours                                 | 28 mm                                                                                       |
| N.º de golpes / Number of strokes / Nro. de coups           | 1200 rpm                                                                                    |
| Potencia / Power / Puissance                                | 1 kW                                                                                        |
| Consumo de aire / Air consumption / Consommation d'air      | 1,3 m³/min                                                                                  |
| Capacidad de corte / Cutting capacity / Capacité de coupe   | Madera: 160 mm - Acero: 19 mm<br>Wood: 160 mm - Steel: 19 mm<br>Bois: 160 mm - Acier: 19 mm |
| Nivel sonoro / Sound level / Niveau sonore                  | 81-92 db                                                                                    |
| Designación ATEX / ATEX marking / Marquage ATEX             | ⊕ I M2 Ex h I Mb T5                                                                         |
| Peso / Weight / Poids                                       | 7,0 kg                                                                                      |

■ SIERRA CIRCULAR / CIRCULAR SAW / SCIE CIRCULAIRE / KREISSÄGE / SEGHETTO CIRCOLARE / SERRA CIRCULAR / ЦИРКУЛЯРНАЯ ПИЛА

\* 12M



COD.

79836



Zonas / Zones

2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                          | Neumático / Pneumatic / Pneumatique |
|-------------------------------------------------------------|-------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail | 6 bar                               |
| Capacidad / Capacity / Capacité                             | 120 mm                              |
| Disco / Disk / Disque                                       | ≤ 320 mm                            |
| Potencia / Power / Puissance                                | 1,8 kW                              |
| Consumo de aire / Air consumption / Consommation d'air      | 2 m³/min                            |
| Conexión / Connection / Connexion                           | R 1/2"                              |
| Nivel sonoro / Sound level / Niveau sonore                  | 95 db                               |
| Nivel de vibración / Vibration level / Niveau de vibration  | <2,5 m/s²                           |
| Designación ATEX / ATEX marking / Marquage ATEX             | ⊕ II 3G Ex h IIB T5 Gc              |
| Peso / Weight / Poids                                       | 11 kg                               |

\* 12M: GARANTÍA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

■ SIERRAS / SAWS / SCIES / SÄGEN / SEGHETTO / SERRAS / ПИЛЫ

■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

■ SIERRA CIRCULAR / CIRCULAR SAW / SCIE CIRCULAIRE / KREISSÄGE / SEGHETTO CIRCOLARE / SERRA CIRCULAR / ЦИРКУЛЯРНАЯ ПИЛА

\* 12M



COD.

79989

Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                               | Neumático / Pneumatic / Pneumatique       |
|------------------------------------------------------------------|-------------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail      | 6 bar                                     |
| Capacidad / Capacity / Capacité                                  | 65 mm (90°) - 40 mm (45°)                 |
| Accesorios incluidos / Accessories Included / Accessoires inclus | Disco A0485<br>Disk A0485<br>Disque A0485 |
| Disco / Disk / Disque                                            | ≤ 190 mm                                  |
| Potencia / Power / Puissance                                     | 1,3 kW                                    |
| Consumo de aire / Air consumption / Consommation d'air           | 1,5 m <sup>3</sup> /min                   |
| Conexión / Connection / Connexion                                | R 1/2"                                    |
| Nivel sonoro / Sound level / Niveau sonore                       | 95,4 db                                   |
| Nivel de vibración / Vibration level / Niveau de vibration       | <2,5 m/s <sup>2</sup>                     |
| Designación ATEX / ATEX marking / Marquage ATEX                  | Ⓢ II 2G Ex h IIB T5 Gc                    |
| Peso / Weight / Poids                                            | 6,5 kg                                    |

\* 12M



COD.

79199

Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                          | Neumático / Pneumatic / Pneumatique |
|-------------------------------------------------------------|-------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail | 6 bar                               |
| Capacidad / Capacity / Capacité                             | 84 mm (90°) - 56 mm (45°)           |
| Disco / Disk / Disque                                       | ≤230 mm                             |
| Potencia / Power / Puissance                                | 1,5 kW                              |
| Consumo de aire / Air consumption / Consommation d'air      | 2 m <sup>3</sup> /min               |
| Conexión / Connection / Connexion                           | R 1/2"                              |
| Nivel sonoro / Sound level / Niveau sonore                  | 103,3 db                            |
| Nivel de vibración / Vibration level / Niveau de vibration  | <2,5 m/s <sup>2</sup>               |
| Designación ATEX / ATEX marking / Marquage ATEX             | Ⓢ II 2G Ex h IIB T5 Gc              |
| Peso / Weight / Poids                                       | 8,6 kg                              |

■ SIERRAS / SAWS / SCIES / SÄGEN / SEGNETTO / SERRAS / ПИЛЫ

■ HIDRÁULICA / HIDRAULIC / HYDRAULIQUE / HYDRAULISCH / IDRAULICA / HIDRÁULICA / ГИДРАВЛИЧЕСКИЙ

■ SIERRAS PORTÁTILES / PORTABLE SAWS / SCIES PORTABLES / STICHSÄGE / SEGNETTI PORTATILI / SERRAS PORTÁTEIS / ПИЛЫ ВОЗВРАТНО-ПОСТУПАТЕЛЬНОГО ДЕЙСТВИЯ

\* 12M



COD.

79913



Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                |                                      |
|----------------------------------------------------------------|--------------------------------------|
| Tipo / Type / Type                                             | Hidráulico / Hydraulic / Hydraulique |
| Presión de trabajo / Working pressure / Pression de travail    | 140 bar                              |
| Tipo de válvula / Valve type / Type de valve                   | Twist                                |
| Carrera / Stroke / Parcours                                    | 60 mm                                |
| N.º de golpes / Number of strokes / Nro. de coups              | 500 rpm                              |
| Potencia / Power / Puissance                                   | 2,8 kW                               |
| Caudal hidráulico / Oil flow / Flux d'huile                    | 10-50 l/min                          |
| Conexión / Connection / Connexion                              | 12S                                  |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                | 12 mm                                |
| Nivel sonoro / Sound level / Niveau sonore                     | 86 db                                |
| Nivel de vibración / Vibration level / Niveau de vibration     | <2,5 m/s <sup>2</sup>                |
| Material de la carcasa / Casing material / Matière de la coque | Aluminio / Aluminum / Aluminium      |
| Designación ATEX / ATEX marking / Marquage ATEX                | Ⓜ II 2G Ex h IIB T5 Gb               |
| Peso / Weight / Poids                                          | 6,1 kg                               |

■ SIERRA DE SABLE / SABLE SAW / SCIE SABRE / SÄBELSÄGE / SEGNETTO ALTERNATIVO / SERRA DE SABRE / САБЕЛЬНАЯ ПИЛА

\* 12M



COD.

79914



Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                             |                                                                                             |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Tipo / Type / Type                                          | Hidráulico / Hydraulic / Hydraulique                                                        |
| Presión de trabajo / Working pressure / Pression de travail | 140 bar                                                                                     |
| Tipo de válvula / Valve type / Type de valve                | Trigger                                                                                     |
| Carrera / Stroke / Parcours                                 | 28 mm                                                                                       |
| N.º de golpes / Number of strokes / Nro. de coups           | 1500 rpm                                                                                    |
| Potencia / Power / Puissance                                | 1,5 kW                                                                                      |
| Caudal hidráulico / Oil flow / Flux d'huile                 | 22-50 l/min                                                                                 |
| Conexión / Connection / Connexion                           | 1/2"FF                                                                                      |
| Nivel sonoro / Sound level / Niveau sonore                  | 89,4 db                                                                                     |
| Nivel de vibración / Vibration level / Niveau de vibration  | <2,5 m/s <sup>2</sup>                                                                       |
| Capacidad de corte / Cutting capacity / Capacité de coupe   | Madera: 160 mm - Acero: 19 mm<br>Wood: 160 mm - Steel: 19 mm<br>Bois: 160 mm - Acier: 19 mm |
| Designación ATEX / ATEX marking / Marquage ATEX             | Ⓜ II 2G Ex h IIB T5 Gb                                                                      |
| Peso / Weight / Poids                                       | 6,0 kg                                                                                      |

\* 12M: GARANTÍA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

■ SIERRAS / SAWS / SCIES / SÄGEN / SEGNETTO / SERRAS / ПИЛЫ

■ HIDRÁULICA / HIDRAULIC / HYDRAULIQUE / HYDRAULISCH / IDRAULICA / HIDRÁULICA / ГИДРАВЛИЧЕСКИЙ

■ SIERRA DE CADENA / CHAIN SAW / SCIE À CHAÎNE / KETTENSÄGE / SEGNETTO A CATENA / SERRA DE CORRENTE / ЦЕПНАЯ ПИЛА

\* 12M



COD.

79980



Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                          | Hidráulico / Hydraulic / Hydraulique |
|-------------------------------------------------------------|--------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail | 140-200 bar                          |
| Potencia / Power / Puissance                                | 7,7 kW                               |
| RPM                                                         | 5000 rpm                             |
| Caudal hidráulico / Oil flow / Flux d'huile                 | 40-50 l/min                          |
| Nivel sonoro / Sound level / Niveau sonore                  | 85 db                                |
| Nivel de vibración / Vibration level / Niveau de vibration  | <3,6 m/s <sup>2</sup>                |
| Designación ATEX / ATEX marking / Marquage ATEX             | Ⓜ II 2G c IIB T5                     |
| Peso / Weight / Poids                                       | 10,5 kg                              |

■ ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ

| COD.  | Descripción / Description / Description                              |
|-------|----------------------------------------------------------------------|
| 74752 | Sable porta cadena 27cm / Chainbar 27cm / Porte chaîne sable 27cm    |
| 79981 | Sable porta cadena 43cm / Chainbar 43cm / Porte chaîne sable 43cm    |
| 79983 | Sable porta cadena 63cm / Chainbar 63cm / Porte chaîne sable 63cm    |
| 74755 | Sable porta cadena 73cm / Chainbar 73cm / Porte chaîne sable 73cm    |
| 74770 | Sable porta cadena 103cm / Chainbar 103cm / Porte chaîne sable 103cm |



| COD.  | Descripción / Description / Description                                                                                                         |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 79982 | Cadena con punta de diamante 43cm / Diamond tipped chain 43cm / Chaîne avec pointe de diamant 43cm                                              |
| 74405 | Cadena con punta de diamante 43cm Universal / Diamond tipped chain 43cm Universal / Chaîne avec pointe de diamant 43cm Universelle              |
| 74624 | Cadena con punta de diamante 43cm Alta duración / Diamond tipped chain 43cm High duration / Chaîne avec pointe de diamant 43cm Haute durabilité |



| COD.  | Descripción / Description / Description                                               |
|-------|---------------------------------------------------------------------------------------|
| 74785 | Guarda de sable para 43cm / Guard of chainbar 43cm / Étui pour sable de 43cm          |
| 79984 | Guarda de sable para 63/73cm / Guard of chainbar 63/73cm / Étui pour sable de 63/73cm |



| COD.  | Descripción / Description / Description                                                              |
|-------|------------------------------------------------------------------------------------------------------|
| 74372 | Cadena con punta de carburo 27cm / Carbide-tipped chain 27cm / Chaîne avec pointe de carbure 27cm    |
| 74375 | Cadena con punta de carburo 43cm / Carbide-tipped chain 43cm / Chaîne avec pointe de carbure 43cm    |
| 79985 | Cadena con punta de carburo 63cm / Carbide-tipped chain 63cm / Chaîne avec pointe de carbure 63cm    |
| 74393 | Cadena con punta de carburo 73cm / Carbide-tipped chain 73cm / Chaîne avec pointe de carbure 73cm    |
| 74996 | Cadena con punta de carburo 103cm / Carbide-tipped chain 103cm / Chaîne avec pointe de carbure 103cm |



| COD.  | Descripción / Description / Description                         |
|-------|-----------------------------------------------------------------|
| 74354 | Cadena para sable 27cm / Chain 27cm / Chaîne pour sable 27cm    |
| 74359 | Cadena para sable 43cm / Chain 43cm / Chaîne pour sable 43cm    |
| 79986 | Cadena para sable 63cm / Chain 63cm / Chaîne pour sable 63cm    |
| 74362 | Cadena para sable 73cm / Chain 73cm / Chaîne pour sable 73cm    |
| 74369 | Cadena para sable 103cm / Chain 103cm / Chaîne pour sable 103cm |



■ SIERRAS / SAWS / SCIES / SÄGEN / SEGHETTO / SERRAS / ПИЛЫ

■ HIDRÁLICA / HIDRAULIC / HYDRAULIQUE / HYDRAULISCH / IDRAULICA / HIDRÁULICA / ГИДРАВЛИЧЕСКИЙ

■ SIERRA CIRCULAR / CIRCULAR SAW / SCIE CIRCULAIRE / KREISSÄGE / SEGHETTO CIRCOLARE / SERRA CIRCULAR / ЦИРКУЛЯРНАЯ ПИЛА

\* 12M



COD.

76717



Zonas / Zones

2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                          | Hidráulico / Hydraulic / Hydraulique |
|-------------------------------------------------------------|--------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail | 140-180 bar                          |
| RPM                                                         | 1800                                 |
| Capacidad / Capacity / Capacité                             | 120 mm                               |
| Disco / Disk / Disque                                       | ≤320 mm                              |
| Potencia / Power / Puissance                                | 2,3 kW                               |
| Caudal hidráulico / Oil flow / Flux d'huile                 | 20-23 l/min                          |
| Nivel sonoro / Sound level / Niveau sonore                  | 85 db                                |
| Nivel de vibración / Vibration level / Niveau de vibration  | <2,5 m/s <sup>2</sup>                |
| Designación ATEX / ATEX marking / Marquage ATEX             | Ⓜ II 3G Ex h IIB T5 Gc               |
| Peso / Weight / Poids                                       | 12,2 kg                              |





**CORTATUBOS BISELADOR / CUTTING AND BEVELLING MACHINE / COUPE-TUBES CHANFREINEUR / ANFAS-MASCHINE / TAGLIATUBI SMUSSATORE /  
CORTA-TUBOS BISELADOR / РЕЗАК-ФАСКОШИМАТЕЛЬ**

El cortatubos biselador MasterEX 79760, es una potente máquina hidráulica ideal para cortar y achaflanar tubos de los más diversos materiales como acero, fundición dúctil, hormigón plástico (OE, PVC, GRP)...

Especialmente diseñado para trabajos en zonas con ambiente explosivo.

*The MasterEX 79760 is a powerful hydraulic pipe cutting machine ideal for cutting and bevelling of most different materials, as steel, ductile iron, concrete, cement, clay, plastics (PE, PVC, GRP)...*

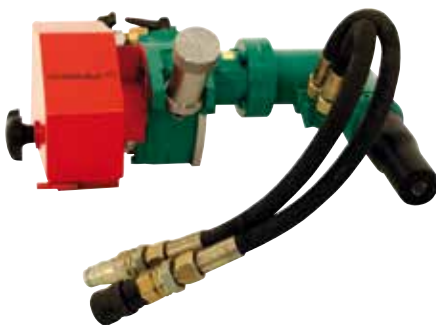
*Machine especially designed for safety works in explosive areas.*

Le coupe-tube biseauté MasterEX 79760 est une puissante machine hydraulique idéale pour couper et chanfreiner des tubes des matériaux les plus divers tels que l'acier, la fonte ductile, le béton plastique (OE, PVC, GRP) ...

Spécialement conçu pour des travaux dans des zones à atmosphère explosive.

**HIDRÁULICA / HIDRAULIC / HYDRAULIQUE / HYDRAULISCH / IDRAULICA / HIDRÁULICA / ГИДРАВЛИЧЕСКИЙ**

\* 12M



COD.

79760



**Zonas / Zones**

**1, 2 GAS / GAZ**

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                     |                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tipo / Type / Type                                                  | Hidráulico / Hydraulic / Hydraulique                                                                                                                                                                                                                                                                       |
| Presión de trabajo / Working pressure / Pression de travail         | 90-140 bar                                                                                                                                                                                                                                                                                                 |
| Accesorios incluidos / Accessories Included / Accessoires inclus    | Mango (79763) / Handle (79763) / Manche (79763)                                                                                                                                                                                                                                                            |
| Para cortar y biselar / To cut and bevel / Pour couper et biseauter | "Acero, INOX, Fundición dúctil, Metal no férreo, Hormigón, Cemento, Arcilla, Plástico, PE, PVC, GFK"<br>"Steel, INOX, Ductile iron, Non-Ferrous metal, Concrete, Cement, Clay, Plastics, PE, PVC, GFK"<br>"Acier, INOX, fonte ductile, métal non ferrique, béton, ciment, argile, plastique, PE, PVC, GFK" |
| Potencia / Power / Puissance                                        | 2 kW                                                                                                                                                                                                                                                                                                       |
| Caudal hidráulico / Oil flow / Flux d'huile                         | 15-50 L/min                                                                                                                                                                                                                                                                                                |
| Conexión / Connection / Connexion                                   | Flat face 1/2" BSP / Flat face 1/2" BSP / Flat star 1/2"                                                                                                                                                                                                                                                   |
| Velocidad de rotación / Rotation speed / Vitesse de rotation        | Etapa1: 950 rpm / Etapa2: 200 rpm<br>1st Stage: 950 rpm / 2nd Stage: 200 rpm<br>1ère étape: 950 rpm / 2ème étape: 200 rpm                                                                                                                                                                                  |
| Nivel sonoro / Sound level / Niveau sonore                          | 98,0 dB                                                                                                                                                                                                                                                                                                    |
| Nivel de vibración / Vibration level / Niveau de vibration          | < 2,5 m/s <sup>2</sup>                                                                                                                                                                                                                                                                                     |
| Altura / Overall length / Longueur                                  | 250 mm                                                                                                                                                                                                                                                                                                     |
| Designación ATEX / ATEX marking / Marquage ATEX                     | ⊕ II 2G Ex h IIB T6 Gb                                                                                                                                                                                                                                                                                     |
| Peso / Weight / Poids                                               | 13 kg                                                                                                                                                                                                                                                                                                      |

■ ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ

■ CARROS-GUÍA / GUIDE-CARRIAGE / CHARIOTS DE GUIDAGE / FÜHRUNGSWAGEN / CARRELLI GUIDA / CARROS-GUÍA / НАПРАВЛЯЮЩИЕ КАРЕТКИ

| COD.  | Descripción / Description / Description                           |
|-------|-------------------------------------------------------------------|
| 79761 | Carro guía pequeño / Guide carriage small / Chariot petit guidage |
| 79762 | Carro guía grande / Guide carriage large / Chariot grand guidage  |
| 79763 | Mango / Feeding pipe / Manche                                     |

■ CADENA DE GUIADO / GUIDE CHAIN / CHAÎNES DE GUIDAGE / FÜHRUNGSKETTE / CATENE DI GUIDA / CORRENTES DE GUÍA / ГИДРАВЛИЧЕСКИЙ

| COD.  | Descripción / Description / Description                                                                                            |
|-------|------------------------------------------------------------------------------------------------------------------------------------|
| 79764 | Cadena de guiado con 24 eslabones y tensionador / 24 Guide chain links and tensioner / Chaîne de guidage à 24 maillons et tenseurs |
| 79765 | Cadena de guiado con 35 eslabones y tensionador / 35 Guide chain links and tensioner / Chaîne de guidage à 35 maillons et tenseurs |
| 79766 | Cadena de guiado con 46 eslabones y tensionador / 46 Guide chain links and tensioner / Chaîne de guidage à 46 maillons et tenseurs |
| 79767 | Cadena de guiado con 57 eslabones y tensionador / 57 Guide chain links and tensioner / Chaîne de guidage à 57 maillons et tenseurs |
| 79768 | Cadena de guiado con 68 eslabones y tensionador / 68 Guide chain links and tensioner / Chaîne de guidage à 68 maillons et tenseurs |
| 79769 | Cadena de guiado con 79 eslabones y tensionador / 79 Guide chain links and tensioner / Chaîne de guidage à 79 maillons et tenseurs |
| 79770 | Cadena de guiado con 90 eslabones y tensionador / 90 Guide chain links and tensioner / Chaîne de guidage à 90 maillons et tenseurs |
| 79772 | Eslabón 57 mm / Chain link 57 mm / Maillon 57 mm                                                                                   |

■ CADENA DE FIJACION / TENSIONING CHAIN / CHAÎNE DE FIXATION / SPANNKETTE / CATENA DI FISSAZIONE / CORRENT DE FIXAÇÃO / КРЕПЁЖНАЯ ЦЕПЬ

| COD.  | Descripción / Description / Description                    |
|-------|------------------------------------------------------------|
| 79773 | Tensionador pequeño / Tensioner small / Tenseur petit      |
| 79774 | Tensionador grande / Tensioner large / Tenseur grand       |
| 79775 | Cadena de fijación / Tensioning chain / Chaîne de fixation |

■ CONSUMIBLES DE CORTE / CUTTING SUPPLIES / CONSOMMABLES DE COUPE / SCHNEIDWAREN / CONSUMABILI DI TAGLIO / CONSUMÍVEIS DE CORTE / РАСХОДНЫЕ МАТЕРИАЛЫ ДЛЯ РЕЗКИ

| COD.  | Descripción / Description / Description                                            | MAT.                         | O.D.<br>mm |
|-------|------------------------------------------------------------------------------------|------------------------------|------------|
| 79776 | Disco con dientes de carburo / Carbide-tipped blade / Disque avec dents en carbure | Carburo / Carbide / Carbone  | 180        |
| 79777 | Disco de diamante / Diamond-tipped blade / Disque de diamant                       | Diamante / Diamond / Diamant | 180        |
| 79778 | Disco biselador 45° / Beveling cutter 45° / Disque biseau 45°                      |                              |            |
| 79779 | Disco biselador 60° / Beveling cutter 60° / Disque biseau 60°                      | HSS                          | 100        |
| 79780 | Disco biselador 90° / Beveling cutter 90° / Disque biseau 90°                      |                              |            |

EGGA Master  
ART IN INNOVATION

\* 12M: GARANTÍA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

■ MEZCLADORA / MIXER / MÉLANGEUR / MIXER / MISCELATORE / MISTURADORA / МИКСЕР

La mezcladora para trabajos pesados de EGA Master es muy fácil de utilizar, gracias a su velocidad y eficacia se obtienen buenas mezclas, incluso con los materiales más exigentes.

*EGA Master heavy-duty mixer is very easy to use, and thanks to its high speed and effectiveness it obtains good mixing, even with the most demanding materials.*

Le mélangeur destinés aux travaux lourds d'EGA Master est très facile à utiliser, grâce à sa vitesse et son efficacité s'obtiennent de bons mélanges, y compris avec les matériaux les plus exigeants.

■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

\* 12M



COD.

79619



Zonas / Zones

M2 MINERÍA / MINING / MINIÈRE

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                                | Neumático / Pneumatic / Pneumatique |
|-------------------------------------------------------------------|-------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail       | 6 bar                               |
| Máx. Ø de la herramienta / Max. Ø of the tool / Ø max. de l'outil | 140 mm                              |
| Capacidad de mezclado / Mixing capacity / Capacité de mélange     | 50 kg                               |
| Velocidad / Speed / Vitesse                                       | 0-440 rpm                           |
| Potencia / Power / Puissance                                      | 1,1 kW                              |
| Consumo de aire / Air consumption / Consommation d'air            | 1,4 m <sup>3</sup> /min             |
| Conexión / Connection / Connexion                                 | R 3/8" male                         |
| Nivel sonoro / Sound level / Niveau sonore                        | 79 db                               |
| Nivel de vibración / Vibration level / Niveau de vibration        | <2,5 m/s <sup>2</sup>               |
| Designación ATEX / ATEX marking / Marquage ATEX                   | Ⓢ I M2 c T6                         |
| Peso / Weight / Poids                                             | 8,7 kg                              |



■ VENTILADOR / FAN / VENTILATEUR / VENTILATOREN / VENTILATORE / VENTILADOR / ВЕНТИЛЯТОР

■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

En los ventiladores axiales o helicoidales de EGA Master el aire circula en la misma dirección que su eje. Son capaces de mover grandes cantidades de aire por lo que son muy adecuados para la ventilación y la extracción de humos y gases.

EGA Master axial or helical fans circulate the air in the same direction of its axis. These fans are capable of moving large quantities of air thus they are very suitable for ventilation and smoke and gas extraction.

Dans les ventilateurs axiaux ou hélicoidaux d'EGA Master, l'air circule dans la même direction que son axe. Ils sont capables de déplacer une grande quantité d'air, ce qui justifie leurs aptitudes pour la ventilation et l'extraction de fumées et gaz.

■ AXIAL / AXIAL / AXIAL / AXIAL / ASSIALE / AXIAL / АКСИАЛЬНЫЙ

\* 12M



COD.  
79620



Zonas / Zones  
1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                                               | Neumático / Pneumatic / Pneumatique |
|----------------------------------------------------------------------------------|-------------------------------------|
| Máxima presión de trabajo / Maximum operating pressure / Pression max de travail | 5 bar                               |
| Ø nominal / nominal Ø / Ø nominal                                                | 300                                 |
| RPM                                                                              | 2300 +/- 5 %                        |
| Consumo de aire / Air consumption / Consommation d'air                           | 0,45 m <sup>3</sup> /min            |
| Nivel sonoro / Sound level / Niveau sonore                                       | 85,7 db(A)                          |
| Caudal de ventilación / Output air flow / Débit de ventilation                   | 0,57 m <sup>3</sup> /s              |
| Longitud / Length / Longueur                                                     | 350                                 |
| Designación ATEX / ATEX marking / Marquage ATEX                                  | Ⓔ II 2G c IIB T6                    |
| Peso / Weight / Poids                                                            | 13 kg                               |

EGA Master  
ART IN INNOVATION

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■ VENTILADOR / FAN / VENTILATEUR / VENTILATOREN / VENTILATORE / VENTILADOR / ВЕНТИЛЯТОР

■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

■ AXIAL / AXIAL / AXIAL / AXIAL / ASSIALE / AXIAL / АКСИАЛЬНЫЙ

\* 12M



COD.

79000

79621

79622



Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                                               | Neumático / Pneumatic / Pneumatique                                                              |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Máxima presión de trabajo / Maximum operating pressure / Pression max de travail | 4 bar                                                                                            |
| Ø nominal / nominal Ø / Ø nominal                                                |                                                                                                  |
|                                                                                  | 79000 400                                                                                        |
|                                                                                  | 79621 500                                                                                        |
|                                                                                  | 79622 600                                                                                        |
| Consumo de aire / Air consumption / Consommation d'air                           |                                                                                                  |
|                                                                                  | 79000 2,03 m <sup>3</sup> /min                                                                   |
|                                                                                  | 79621 2,73 m <sup>3</sup> /min                                                                   |
|                                                                                  | 79622 3,84 m <sup>3</sup> /min                                                                   |
| Conexión / Connection / Connexion                                                | Acoplamiento de garras hembra 3/4"<br>Claw coupling female 3/4"<br>Raccord à griffe femelle 3/4" |
| Nivel sonoro / Sound level / Niveau sonore                                       |                                                                                                  |
|                                                                                  | 79000 92 db                                                                                      |
|                                                                                  | 79621 105 db                                                                                     |
|                                                                                  | 79622 99 db                                                                                      |
| Caudal de ventilación / Output air flow / Débit de ventilation                   |                                                                                                  |
|                                                                                  | 79000 3,15 m <sup>3</sup> /s                                                                     |
|                                                                                  | 79621 4,33 m <sup>3</sup> /s                                                                     |
|                                                                                  | 79622 5,83 m <sup>3</sup> /s                                                                     |
| Longitud / Length / Longueur                                                     |                                                                                                  |
|                                                                                  | 79000 440                                                                                        |
|                                                                                  | 79621 520                                                                                        |
|                                                                                  | 79622 520                                                                                        |
| Designación ATEX / ATEX marking / Marquage ATEX                                  | Ⓜ II 2G c IIB T6                                                                                 |
| Peso / Weight / Poids                                                            |                                                                                                  |
|                                                                                  | 79000 32 kg                                                                                      |
|                                                                                  | 79621 46 kg                                                                                      |
|                                                                                  | 79622 58 kg                                                                                      |

■ VENTILADOR / FAN / VENTILATEUR / VENTILATOREN / VENTILATORE / VENTILADOR / ВЕНТИЛЯТОР

■ ELÉCTRICO / ELECTRIC / ÉLECTRIQUE / ELEKTRISCH / ELETTRICA / ELÉTRICO / ЭЛЕКТРИЧЕСКИЙ

■ AXIAL / AXIAL / AXIAL / AXIAL / ASSIALE / AXIAL / АКСИАЛЬНЫЙ

\* 12M CE



COD.  
79624



Zonas / Zones  
1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                             | Eléctrico / Electric / Électrique |
|----------------------------------------------------------------|-----------------------------------|
| Ø nominal / nominal Ø / Ø nominal                              | 300                               |
| Velocidad nominal / Nominal speed / Vitesse nominal            | 2870 rpm                          |
| Voltaje / Voltage / Voltage                                    | 230 V                             |
| Consumo / Consumption / Consommation                           | 2,3 A                             |
| Frecuencia / Frequency / Fréquence                             | 50 Hz                             |
| Potencia de salida / Output power / Puissance de sortie        | 0,37 kW                           |
| Nivel sonoro / Sound level / Niveau sonore                     | 85 db                             |
| Caudal de ventilación / Output air flow / Débit de ventilation | 1 m <sup>3</sup> /s               |
| Clase de protección / Protection class / Classe de protection  | IP55                              |
| Longitud / Length / Longueur                                   | 390                               |
| Designación ATEX / ATEX marking / Marquage ATEX                | Ⓔ II 2G c IIB T3                  |
| Peso / Weight / Poids                                          | 20,5 kg                           |

\* 12M CE



COD.  
79237



Zonas / Zones  
1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                             | Eléctrico / Electric / Électrique |
|----------------------------------------------------------------|-----------------------------------|
| Ø nominal / nominal Ø / Ø nominal                              | 300                               |
| Velocidad nominal / Nominal speed / Vitesse nominal            | 2840 rpm                          |
| Voltaje / Voltage / Voltage                                    | 230/400 V                         |
| Consumo / Consumption / Consommation                           | 1,6/0,92 A                        |
| Frecuencia / Frequency / Fréquence                             | 50 Hz                             |
| Potencia de salida / Output power / Puissance de sortie        | 0,35 kW                           |
| Caudal de ventilación / Output air flow / Débit de ventilation | 1 m <sup>3</sup> /s               |
| Clase de protección / Protection class / Classe de protection  | IP55                              |
| Nivel sonoro / Sound level / Niveau sonore                     | 86 db                             |
| Longitud / Length / Longueur                                   | 390                               |
| Designación ATEX / ATEX marking / Marquage ATEX                | Ⓔ II 2G c IIB T3                  |
| Peso / Weight / Poids                                          | 20,0 kg                           |

\* 12M: GARANTÍA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

ACCESORIOS / ACCESSORIES / ACCESSOIRES / ZUBEHÖR / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ

| COD.  | Descripción / Description / Description                               | Válido para / Valid for / Valable pour | I.D.<br>mm |
|-------|-----------------------------------------------------------------------|----------------------------------------|------------|
| 79710 |                                                                       | 79620, 79624, 79237                    | 300        |
| 76149 | Pieza de conexión anti-estática<br><i>Antistatic connecting piece</i> | 79000                                  | 400        |
| 76289 | Pièce de connexion antistatique                                       | 79621                                  | 500        |
| 76460 |                                                                       | 79622                                  | 600        |

| COD.  | Descripción / Description / Description                                    | Válido para / Valid for / Valable pour | I.D.<br>mm |
|-------|----------------------------------------------------------------------------|----------------------------------------|------------|
| 79711 |                                                                            | 79620, 79624, 79237                    | 300        |
| 76473 | Acoplamiento rápido anti-estático<br><i>Antistatic quick-seal coupling</i> | 79000                                  | 400        |
| 76704 | Raccord rapide antistatique                                                | 79621                                  | 500        |
| 76706 |                                                                            | 79622                                  | 600        |

| COD.  | Descripción / Description / Description                                              | Válido para / Valid for / Valable pour | I.D.<br>mm |
|-------|--------------------------------------------------------------------------------------|----------------------------------------|------------|
| 79712 |                                                                                      | 79620, 79624, 79237                    | 300        |
| 76708 | Manguera de plástico 5M, anti-estática<br><i>Plastic ducting 5M long, antistatic</i> | 79000                                  | 400        |
| 76710 | Conduit en plastique 5M de long, antistatique                                        | 79621                                  | 500        |
| 76750 |                                                                                      | 79622                                  | 600        |



■ VENTILADOR / FAN / VENTILATEUR / VENTILATOREN / VENTILATORE / VENTILADOR / ВЕНТИЛЯТОР

■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

■ VENTURI

\* 12M



COD.

72984

72985

72986

72987

72988

72989



Zonas / Zones

1, 2 GAS / GAZ

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                             | Neumático / Pneumatic / Pneumatique |                                                                |
|----------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail    | 2-6 bar                             |                                                                |
| Ø nominal / nominal Ø / Ø nominal                              |                                     |                                                                |
|                                                                | 72984                               | 100                                                            |
|                                                                | 72985                               | 125                                                            |
|                                                                | 72986                               | 150                                                            |
|                                                                | 72987                               | 180                                                            |
|                                                                | 72988                               | 200                                                            |
|                                                                | 72989                               | 250                                                            |
| Caudal de ventilación / Output air flow / Débit de ventilation |                                     |                                                                |
|                                                                | 72984                               | 14,9 (4 bar) / 17,7 (5 bar) / 20,5 (6 bar) m <sup>3</sup> /min |
|                                                                | 72985                               | 19,6 (4 bar) / 23,3 (5 bar) / 26,2 (6 bar) m <sup>3</sup> /min |
|                                                                | 72986                               | 36,3 (4 bar) / 42,7 (5 bar) / 49,8 (6 bar) m <sup>3</sup> /min |
|                                                                | 72987                               | 53,6 (4 bar) / 62,0 (5 bar) / 67,5 (6 bar) m <sup>3</sup> /min |
|                                                                | 72988                               | 54,3 (4 bar) / 65,3 (5 bar) / 78,3 (6 bar) m <sup>3</sup> /min |
|                                                                | 72989                               | 67,2 (4 bar) / 78,9 (5 bar) / 88,7 (6 bar) m <sup>3</sup> /min |
| Consumo de aire / Air consumption / Consommation d'air         |                                     |                                                                |
|                                                                | 72984                               | 1,6-2,3 m <sup>3</sup> /min                                    |
|                                                                | 72985                               | 1,7-2,4 m <sup>3</sup> /min                                    |
|                                                                | 72986                               | 2,8-4,4 m <sup>3</sup> /min                                    |
|                                                                | 72987                               | 2,9-4,5 m <sup>3</sup> /min                                    |
|                                                                | 72988                               | 6,3-9,7 m <sup>3</sup> /min                                    |
|                                                                | 72989                               | 6,4-9,5 m <sup>3</sup> /min                                    |
| Conexión / Connection / Connexion                              |                                     |                                                                |
|                                                                | 72984                               | G 3/8" f                                                       |
|                                                                | 72985                               | G 3/8" f                                                       |
|                                                                | 72986                               | G 1/2" f                                                       |
|                                                                | 72987                               | G 1/2" f                                                       |
|                                                                | 72988                               | G 3/4" f                                                       |
|                                                                | 72989                               | G 3/4" f                                                       |
| Nivel sonoro / Sound level / Niveau sonore                     |                                     |                                                                |
|                                                                | 72984                               | 100,8 db                                                       |
|                                                                | 72985                               | 101,1 db                                                       |
|                                                                | 72986                               | 103,8 db                                                       |
|                                                                | 72987                               | 104,4 db                                                       |
|                                                                | 72988                               | 115,8 db                                                       |
|                                                                | 72989                               | 116,3 db                                                       |
| Nivel de vibración / Vibration level / Niveau de vibration     |                                     | <2,5 m/s <sup>2</sup>                                          |
| Longitud / Length / Longueur                                   |                                     |                                                                |
|                                                                | 72984                               | 410                                                            |
|                                                                | 72985                               | 425                                                            |
|                                                                | 72986                               | 435                                                            |
|                                                                | 72987                               | 450                                                            |
|                                                                | 72988                               | 450                                                            |
|                                                                | 72989                               | 450                                                            |
| Designación ATEX / ATEX marking / Marquage ATEX                |                                     | Ⓔ II 2G c T6                                                   |
| Peso / Weight / Poids                                          |                                     |                                                                |
|                                                                | 72984                               | 3,3 kg                                                         |
|                                                                | 72985                               | 3,9 kg                                                         |
|                                                                | 72986                               | 5,2 kg                                                         |
|                                                                | 72987                               | 5,3 kg                                                         |
|                                                                | 72988                               | 6,8 kg                                                         |
|                                                                | 72989                               | 8,0 kg                                                         |

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■ VENTILADOR / FAN / VENTILATEUR / VENTILATOREN / VENTILATORE / VENTILADOR / ВЕНТИЛЯТОР

■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

■ VENTURI

\* 12M



COD.

72994  
72995  
72996  
72997  
72998  
72999



Zonas / Zones

M2 MINERÍA / MINING / MINIÈRE

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

| Tipo / Type / Type                                             | Neumático / Pneumatic / Pneumatique |                                                                |
|----------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------|
| Presión de trabajo / Working pressure / Pression de travail    | 2-6 bar                             |                                                                |
| Ø nominal / nominal Ø / Ø nominal                              |                                     |                                                                |
|                                                                | 72994                               | 101,6                                                          |
|                                                                | 72995                               | 129,0                                                          |
|                                                                | 72996                               | 154,0                                                          |
|                                                                | 72997                               | 168,3                                                          |
|                                                                | 72998                               | 204,0                                                          |
|                                                                | 72999                               | 219,1                                                          |
| Caudal de ventilación / Output air flow / Débit de ventilation |                                     |                                                                |
|                                                                | 72994                               | 14,9 (4 bar) / 17,7 (5 bar) / 20,5 (6 bar) m <sup>3</sup> /min |
|                                                                | 72995                               | 17,4 (4 bar) / 20,4 (5 bar) / 25,8 (6 bar) m <sup>3</sup> /min |
|                                                                | 72996                               | 36,3 (4 bar) / 42,7 (5 bar) / 49,8 (6 bar) m <sup>3</sup> /min |
|                                                                | 72997                               | 53,6 (4 bar) / 62,0 (5 bar) / 67,5 (6 bar) m <sup>3</sup> /min |
|                                                                | 72998                               | 54,3 (4 bar) / 65,3 (5 bar) / 78,3 (6 bar) m <sup>3</sup> /min |
|                                                                | 72999                               | 67,2 (4 bar) / 78,9 (5 bar) / 88,7 (6 bar) m <sup>3</sup> /min |
| Consumo de aire / Air consumption / Consommation d'air         |                                     |                                                                |
|                                                                | 72994                               | 1,6-2,3 m <sup>3</sup> /min                                    |
|                                                                | 72995                               | 1,7-2,4 m <sup>3</sup> /min                                    |
|                                                                | 72996                               | 2,8-4,4 m <sup>3</sup> /min                                    |
|                                                                | 72997                               | 2,9-4,5 m <sup>3</sup> /min                                    |
|                                                                | 72998                               | 6,3-9,7 m <sup>3</sup> /min                                    |
|                                                                | 72999                               | 6,4-9,5 m <sup>3</sup> /min                                    |
| Conexión / Connection / Connexion                              |                                     |                                                                |
|                                                                | 72994                               | G 1/2" f                                                       |
|                                                                | 72995                               | G 1/2" f                                                       |
|                                                                | 72996                               | G 1/2" f                                                       |
|                                                                | 72997                               | G 1/2" f                                                       |
|                                                                | 72998                               | G 3/4" f                                                       |
|                                                                | 72999                               | G 3/4" f                                                       |
| Nivel sonoro / Sound level / Niveau sonore                     |                                     |                                                                |
|                                                                | 72994                               | 100,8 db                                                       |
|                                                                | 72995                               | 101,1 db                                                       |
|                                                                | 72996                               | 103,8 db                                                       |
|                                                                | 72997                               | 104,4 db                                                       |
|                                                                | 72998                               | 115,8 db                                                       |
|                                                                | 72999                               | 116,3 db                                                       |
| Nivel de vibración / Vibration level / Niveau de vibration     |                                     | <2,5 m/s <sup>2</sup>                                          |
| Longitud / Length / Longueur                                   |                                     |                                                                |
|                                                                | 72994                               | 410                                                            |
|                                                                | 72995                               | 425                                                            |
|                                                                | 72996                               | 435                                                            |
|                                                                | 72997                               | 450                                                            |
|                                                                | 72998                               | 450                                                            |
|                                                                | 72999                               | 450                                                            |
| Designación ATEX / ATEX marking / Marquage ATEX                | Ⓢ I M2 c T6                         |                                                                |
| Peso / Weight / Poids                                          |                                     |                                                                |
|                                                                | 72994                               | 4,8 kg                                                         |
|                                                                | 72995                               | 5,6 kg                                                         |
|                                                                | 72996                               | 7,5 kg                                                         |
|                                                                | 72997                               | 7,7 kg                                                         |
|                                                                | 72998                               | 9,9 kg                                                         |
|                                                                | 72999                               | 11,5 kg                                                        |

**BOMBAS ACCIONADORAS DE LLAVES DINAMOMÉTRICAS HIDRÁULICAS / POWER UNIT PUMP FOR HYDRAULIC TORQUE WRENCHES / POMPES POUR CLÉS DYNAMOMETRIQUES HYDRAULIQUES / DREHMOMENTSCHLÜSSEL / POMPE DI AZIONAMENTO PER CHIAVI DI COPPIA IDRAULICHE / BOMBAS DE ACCIONAMENTO DE CHAVES DINAMOMÉTRICAS HIDRÁULICAS / ПРИВОДНЫЕ НАСОСЫ ДЛЯ ГИДРАВЛИЧЕСКИХ ДИНАМОМЕТРИЧЕСКИХ КЛЮЧЕЙ**

La bomba hidráulica ATEX EGA Master 76757 no sólo aporta las mejores prestaciones en cuanto a presión y caudal para un trabajo rápido y ergonómico, sino que asegura el cumplimiento de las medidas de seguridad exigidas por la Directiva 2014/34/UE para ambientes explosivos.

The EGA Master ATEX hydraulic power unit pump 76757, not only provides the best features in terms of pressure and flow for a quick an ergonomic work, but also ensures the fulfilment of the safety measures required by 2014/34/UE Directive for explosive environments.

La pompe hydraulique ATEX EGA Master 76757 non seulement proportionne les meilleures performances en termes de pression et de débit pour un travail rapide et ergonomique, mais elle assure également l'accomplissement des mesures de sécurité requises par la directive 2014/34/UE pour les environnements explosifs.

**HIDRÁULICA / HIDRAULIC / HYDRAULIQUE / HYDRAULISCH / IDRAULICA / HIDRÁULICA / ГИДРАВЛИЧЕСКИЙ**

**DE ACCIONAMIENTO ELÉCTRICO / ELECTRIC DRIVE / D' ACCIONNEMENT ÉLECTRIQUE / ELEKTRISCHER ANTRIEB / CON AZIONAMENTO ELETTRICO / DE ACCIONAMENTO ELÉCTRICO / ЭЛЕКТРИЧЕСКИЙ**

\* 12M



COD.

76757

**Zonas / Zones**

1, 2 GAS / GAZ

**CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES**

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                 |                                           |
|-------------------------------------------------|-------------------------------------------|
| Tipo / Type / Type                              | Hidráulico / Hydraulic / Hydraulique      |
| Voltaje / Voltage / Voltage                     | 400 V                                     |
| Potencia / Power / Puissance                    | 1,1 kW                                    |
| Capacidad / Capacity / Capacité                 | 10 L                                      |
| Caudal / Flow rate / Débit                      | 7,5 l/min. @ 70 bar / 0,9 l/min @ 700 bar |
| Puertos / Ports / Ports                         | 4                                         |
| Designación ATEX / ATEX marking / Marquage ATEX | Ⓔ II 2G Ex IIB T3 Gb X                    |

**ACCESORIOS / ACCESSORIES / ACCESSOIRES / ZUBEHÖR / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ**

| COD.  | Descripción / Description / Description    | Conexión / Connection / Connexion |      |
|-------|--------------------------------------------|-----------------------------------|------|
| 79999 | Manguera bitubo / Twin hose / Tuyau bitube | 1/4"                              | 10 m |

| COD.  | Descripción / Description / Description               |    |    |
|-------|-------------------------------------------------------|----|----|
| 79815 | Aceite hidráulico / Hydraulic oil / Huile hydraulique | 20 | 17 |



\* 12M: GARANTÍA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

39

USO SUBACUÁTICO

UNDERWATER USE

UTILISATION SUBAQUATIQUE

UNTERWASSEREINSATZ

UTENSILI IDRAULICI E PNEUMATICI PER USO SUBACQUEO

SUBAQUÁTICO

ИНСТРУМЕНТ ДЛЯ ПОДВОДНЫХ РАБОТ

AQUA *Master*



# AQUA Master



**EGA Master** ha lanzado una completísima gama de herramientas neumáticas e hidráulicas para usos subacuáticos; amoladoras, llaves de impacto, taladros, sierras... Todas ellas están diseñadas para profesionales cuyo ámbito de trabajo habitual esté situado bajo el agua: embarcaciones hundidas, estructuras sumergidas, plataformas petrolíferas, centrales hidráulicas... Gracias a su diseño constructivo son aptas para su uso a cualquier profundidad accesible para los submarinistas.

*EGA Master has launched a very complete range of pneumatic and hydraulic tools for underwater applications; grinders, impact wrenches, drills, saws (etc.). All of them are specially designed for professionals who usually work in underwater environment: sunk boats, submerged structures, oil rigs, hydro electric power station (etc.). Because of their design, they are suitable for being used at all depths accessible to divers.*

**EGA Master** a lancéé une complète gamme d'outillage pneumatique et hydraulique pour utilisations subaquatiques; affilage, clés à frapper, perceuses, scies... Elle est conçue pour des professionnels dont le cadre de travail habituel est situé sous l'eau: embarcations coulées, structures submergées, plates-formes pétrolières et centrales hydrauliques... Grâce à son dessin constructif, elle est apte pour une utilisation dans n'importe quelle profondeur accessible pour les sous-marins.



## Instrucciones de manejo para las herramientas subacuáticas Operating instructions for underwater tools Mode d'emploi des outils subaquatiques

### Antes de la operación subacuática:

- Comprobar que la máquina no tiene fugas.
- Comprobar todas las funciones de la máquina.
- Rociar todas las piezas móviles con el lubricante OKS 8601 (o similar).

### Después de la operación subacuática:

- Limpiar la máquina.
- Secar la máquina con aire comprimido.
- Rociar todas las piezas móviles con el lubricante OKS 8601 (o similar).

### Before underwater operation:

- Test the machine for leakage.
- Test all functions of the machine.
- Spray all moving parts with lubricant OKS 8601 (or similar).

### After underwater operation:

- Clean the machine.
- Dry the machine with compressed air.
- Spray all moving parts with lubricant OKS 8601 (or similar).

### Avant l'opération subaquatique:

- Vérifier que la machine n'a pas de fuites.
- Vérifier toutes les fonctions de la machine.
- Asperger toutes les parties mobiles avec le lubrifiant OKS 8601 (ou équivalent).

### Après l'opération subaquatique:

- Nettoyer la machine.
- Sécher la machine avec de l'air comprimé.
- Asperger toutes les pièces mobiles avec le lubrifiant OKS 8601 (ou équivalent).



## AQUAMaster

### ■ AMOLADORAS / GRINDERS / MEULEUSES / SCHLEIFMASCHINEN / SMERIGLIATRICI / REBARBADORAS / УГЛОВЫЕ ШЛИФОВАЛЬНЫЕ МАШИНКИ

Las amoladoras son herramientas muy versátiles, utilizadas en el sector del metal y la construcción para trabajar con diferentes materiales (acero, hormigón, piedra, madera, ...). Dependiendo de la herramienta de inserción escogida, podremos realizar diversos trabajos como por ejemplo; pulir, lijar, rebarbar, tronzar, devastar...

Grinders are very versatile tools, used in metal industry and construction, to work with different materials (steel, concrete, stone, wood, ...). Different insertion tools, can do different jobs such as, grinding, sanding, deburring and cutting.

Les meuleuses sont des outils versatils, utilisés dans le secteur métallier et la construction pour différents matériaux (acier, béton, bois, pierre, ...). Suivant le disque choisi, nous pourrions polir, lisser, raboter, couper, dévaster...

### ■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

#### ■ AMOLADORA ANGULAR / ANGLE GRINDER / MEULEUSE ANGULAIRE / WINKELSCHLEIFER / SMERIGLIATRICE ANGOLARE / REBARBADORA ANGULAR / УГЛОВАЯ ШЛИФОВАЛЬНАЯ МАШИНКА

COD.

**79900**

CE | 12M

#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                             |                                     |
|-------------------------------------------------------------|-------------------------------------|
| Tipo / Type / Type                                          | Neumático / Pneumatic / Pneumatique |
| Presión de trabajo / Working pressure / Pression de travail | 6 bar                               |
| Disco / Disk / Disque                                       | ≤ 125 mm                            |
| Rosca de montaje / Mounting thread / Filage d'assemblage    | 1/4"                                |
| RPM                                                         | 11600                               |
| Potencia / Power / Puissance                                | 0,3 kW                              |
| Conexión / Connection / Connexion                           | R 1/4"                              |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)             | ≥ 10 mm                             |
| Consumo de aire / Air consumption / Consommation d'air      | 1 m <sup>3</sup> /min               |
| Nivel sonoro / Sound level / Niveau sonore                  | 88,50 db                            |
| Nivel de vibración / Vibration level / Niveau de vibration  | <2,5 m/s <sup>2</sup>               |
| Peso / Weight / Poids                                       | 2,5 kg                              |



### ■ AMOLADORA RECTA / AXIAL DIE GRINDER / MEULEUSE DROITE / AXIAL-SCHLEIFMASCHINE / SMERIGLIATRICE DRITTA / RECTIFICADORA / ПРЯМАЯ ШЛИФОВАЛЬНАЯ МАШИНА

COD.

**79901**

CE | 12M

#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                             |                                     |
|-------------------------------------------------------------|-------------------------------------|
| Tipo / Type / Type                                          | Neumático / Pneumatic / Pneumatique |
| Presión de trabajo / Working pressure / Pression de travail | 6 bar                               |
| RPM                                                         | 20000                               |
| Potencia / Power / Puissance                                | 0,7 kW                              |
| Conexión / Connection / Connexion                           | R 1/4" f                            |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)             | ≥ 10 mm                             |
| Consumo de aire / Air consumption / Consommation d'air      | 0,85 m <sup>3</sup> /min            |
| Nivel sonoro / Sound level / Niveau sonore                  | 85,90 db                            |
| Nivel de vibración / Vibration level / Niveau de vibration  | <2,5 m/s <sup>2</sup>               |
| Longitud / Length / Longueur                                | 250 mm                              |
| Ø de pinza / Collet Ø / Ø pince                             | 6 mm                                |
| Peso / Weight / Poids                                       | 1,4 kg                              |



## AQUA Master

### HIDRÁULICA / HYDRAULIC / HYDRAULIQUE / HYDRAULISCH / IDRAULICA / HIDRÁULICA / ГИДРАВЛИЧЕСКИЕ

#### AMOLADORA VERTICAL / VERTICAL GRINDER / MEULEUSE VERTICALE / VERTIKALSCHLEIFER / MOLATRICE VERTICALE / REBARBADORA VERTICAL / ПЛОСКОШЛИФОВАЛЬНАЯ МАШИНА

COD.

**79921**

CE I 12M

#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

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#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                             |                                      |
|-------------------------------------------------------------|--------------------------------------|
| Tipo / Type / Type                                          | Hidráulico / Hydraulic / Hydraulique |
| Presión de trabajo / Working pressure / Pression de travail | 90-140 bar                           |
| Disco / Disk / Disque                                       | ≤ 230 mm                             |
| RPM                                                         | 3600                                 |
| Potencia / Power / Puissance                                | 3,5 kW                               |
| Caudal hidráulico / Oil flow / Flux d'huile                 | 20-45 l/min                          |
| Conexión / Connection / Connexion                           | 3/4"-16UNF                           |
| Peso / Weight / Poids                                       | 5,8 kg                               |
| Conexión de disco / Disk connection / Connexion du disque   | 22.2/5/8-11UNC                       |



### AMOLADORA RECTA / AXIAL DIE GRINDER / MEULEUSE DROITE / AXIAL-SCHLEIFMASCHINE / SMERIGLIATRICE DRITTA / RECTIFICADORA / ПРЯМАЯ ШЛИФОВАЛЬНАЯ МАШИНА

COD.

**79909**

CE I 12M

#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

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#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                             |                                      |
|-------------------------------------------------------------|--------------------------------------|
| Tipo / Type / Type                                          | Hidráulico / Hydraulic / Hydraulique |
| Presión de trabajo / Working pressure / Pression de travail | 105 bar                              |
| Rosca de montaje / Mounting thread / Filage d'assemblage    | 1/4"                                 |
| RPM                                                         | 10400                                |
| Potencia / Power / Puissance                                | 1,1 kW                               |
| Caudal hidráulico / Oil flow / Flux d'huile                 | 7,5 l/min                            |
| Conexión / Connection / Connexion                           | R 1/2"FF                             |
| Nivel sonoro / Sound level / Niveau sonore                  | 90,70 db                             |
| Nivel de vibración / Vibration level / Niveau de vibration  | <2,5 m/s <sup>2</sup>                |
| Longitud / Length / Longueur                                | 270 mm                               |
| Peso / Weight / Poids                                       | 1,6 kg                               |
| Ø de pinza / Collet Ø / Ø pince                             | 6 mm                                 |



39

USO SUBACUÁTICO  
 UNDERWATER USE  
 UTILISATION SUBAQUATIQUE  
 UNTERWASSEREINSATZ  
 UTENSILI IDRAULICI E PNEUMATICI PER USO SUBACQUEO  
 SUBAQUÁTICO  
 ИНСТРУМЕНТ ДЛЯ ПОДВОДНЫХ РАБОТ



# AQUA Master

COD.

79911

CE | 12M



## CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / *Accessories not included* / Accessoires non inclus

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## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                    |                                             |
|--------------------------------------------------------------------|---------------------------------------------|
| Tipo / <i>Type</i> / Type                                          | Hidráulico / <i>Hydraulic</i> / Hydraulique |
| Presión de trabajo / <i>Working pressure</i> / Pression de travail | 140 bar                                     |
| Disco / <i>Disk</i> / Disque                                       | ≤ 200 mm                                    |
| RPM                                                                | 7000                                        |
| Potencia / <i>Power</i> / Puissance                                | 1,8 kW                                      |
| Caudal hidráulico / <i>Oil flow</i> / Flux d'huile                 | 18-50 l/min                                 |
| Conexión / <i>Connection</i> / Connexion                           | 1/2" FF                                     |
| Nivel sonoro / <i>Sound level</i> / Niveau sonore                  | 80,6 db                                     |
| Nivel de vibración / <i>Vibration level</i> / Niveau de vibration  | <2,5 m/s <sup>2</sup>                       |
| Peso / <i>Weight</i> / Poids                                       | 7,6 kg                                      |

# EGGA Master

## ART IN INNOVATION

12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

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**EGGA Master**  
 ART IN INNOVATION

1259

## AQUA Master


### ■ LLAVES DE IMPACTO / IMPACT WRENCHES / CLÉS À CHOC / SCHLAGSCHRAUBER / AVVITATORI AD IMPULSI / CHAVES DE IMPACTO / УДАРНЫЕ ГАЙКОВЕРТЫ

Las llaves de impacto se utilizan para aplicar altos pares a tornillos de todo tipo con el simple accionamiento de un gatillo. De esta manera, podremos apretar y aflojar tornillos (por muy oxidados que éstos estén) que a mano nos sería imposible. Es muy importante tener en cuenta la medida de los tornillos con los que se va a trabajar porque no todos aguantarán el par máximo que estas llaves son capaces de aplicar.

Impact wrenches are used to apply high torque to nuts of all kinds. Thus, we can tighten and loosen the nuts (even very oxidized ones) that would be impossible to do by hand. It is very important to consider which nuts we will work on, because not all of them will stand the maximum torque that these wrenches are able to apply.

Les clés à choc s'utilisent pour appliquer un serrage important de tout type de boulons, en actionnant tout simplement une gâchette. De cette façon, il est possible de serrer ou de desserrer des écrous (même très oxydés) qui serait impossible manuellement. Il est important de prendre en compte le diamètre des écrous à travailler car tous ne pourront pas supporter le couple maximum que ces clés sont capables d'appliquer.

### ■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

| COD.                                                                                                                                                                                                                                                                                                                                                                                           |                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 79902                                                                                                                                                                                                                                                                                                                                                                                          |                                     |
| 79903                                                                                                                                                                                                                                                                                                                                                                                          |                                     |
|    12M                                                                                                                                                                                                                                                                                                         |                                     |
| CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES                                                                                                                                                                                                                                                                                                                                                  |                                     |
| Accesorios no incluidos / Accessories not included / Accessoires non inclus                                                                                                                                                                                                                                                                                                                    |                                     |
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| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                                                                                                                                                                                                                                                                                                                       |                                     |
| Tipo / Type / Type                                                                                                                                                                                                                                                                                                                                                                             | Neumático / Pneumatic / Pneumatique |
| Presión de trabajo / Working pressure / Pression de travail                                                                                                                                                                                                                                                                                                                                    | 6 bar                               |
| Cuadrado conductor / Square drive / Carré conducteur                                                                                                                                                                                                                                                                                                                                           |                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                | 79902 3/4"                          |
|                                                                                                                                                                                                                                                                                                                                                                                                | 79903 1"                            |
| Par de apriete / Torque / Paire de serrage                                                                                                                                                                                                                                                                                                                                                     | 1350 Nm                             |
| Consumo de aire / Air consumption / Consommation d'air                                                                                                                                                                                                                                                                                                                                         | 1,4 m <sup>3</sup> /min             |
| Para pernos y tuercas / For bolts and nuts / Pour boulons et écrous                                                                                                                                                                                                                                                                                                                            | ≤ M30 (46 mm AF)                    |
| Conexión / Connection / Connexion                                                                                                                                                                                                                                                                                                                                                              | R 1/2" f - R 1/2" f                 |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                                                                                                                                                                                                                                                                                                                                                | 13 mm                               |
| Nivel sonoro / Sound level / Niveau sonore                                                                                                                                                                                                                                                                                                                                                     | 96 db                               |
| Nivel de vibración / Vibration level / Niveau de vibration                                                                                                                                                                                                                                                                                                                                     |                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                | 79902 6,2 m/s <sup>2</sup>          |
|                                                                                                                                                                                                                                                                                                                                                                                                | 79903 4,5 m/s <sup>2</sup>          |
| Designación ATEX / ATEX marking / Marquage ATEX                                                                                                                                                                                                                                                                                                                                                | Ⓜ II 2G c T6                        |
| Peso / Weight / Poids                                                                                                                                                                                                                                                                                                                                                                          |                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                | 79902 5,6 kg                        |
|                                                                                                                                                                                                                                                                                                                                                                                                | 79903 5,5 kg                        |



Vasos de impacto - Cuadrado 3/4" y 1" - Ver capítulo de Llaves de vaso.  
 Impact socket wrenches - 3/4" and 1" Sq. Drive - See Socket wrenches chapter.  
 Douilles à choc - Carrée de 3/4" et 1" - Voir chapitre Douilles.



# AQUAMaster

## ■ HIDRÁULICA / HYDRAULIC / HYDRAULIQUE / HYDRAULISCH / IDRAULICA / HIDRÁULICA / ГИДРАВЛИЧЕСКИЕ

| COD.                                                                                                                                                                                                                                                                                                                                                                                           |                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 79917                                                                                                                                                                                                                                                                                                                                                                                          |                                      |
| 79918                                                                                                                                                                                                                                                                                                                                                                                          |                                      |
| Ex CE I 12M                                                                                                                                                                                                                                                                                                                                                                                    |                                      |
| CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES                                                                                                                                                                                                                                                                                                                                                  |                                      |
| Accesorios no incluidos / Accessories not included / Accessoires non inclus                                                                                                                                                                                                                                                                                                                    |                                      |
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| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                                                                                                                                                                                                                                                                                                                       |                                      |
| Tipo / Type / Type                                                                                                                                                                                                                                                                                                                                                                             | Hidráulico / Hydraulic / Hydraulique |
| Presión de trabajo / Working pressure / Pression de travail                                                                                                                                                                                                                                                                                                                                    | 70-140 bar                           |
| Cuadrado conductor / Square drive / Carré conducteur                                                                                                                                                                                                                                                                                                                                           |                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                | 79917 3/4"                           |
|                                                                                                                                                                                                                                                                                                                                                                                                | 79918 1"                             |
| Par máx. / Torque max. / Paire max.                                                                                                                                                                                                                                                                                                                                                            | 1700 Nm                              |
| Caudal hidráulico / Oil flow / Flux d'huile                                                                                                                                                                                                                                                                                                                                                    | 20-40 l/min                          |
| Para pernos y tuercas / For bolts and nuts / Pour boulons et écrous                                                                                                                                                                                                                                                                                                                            | <= M30 (46 mm AF)                    |
| Conexión / Connection / Connexion                                                                                                                                                                                                                                                                                                                                                              | M18 x 1,5                            |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                                                                                                                                                                                                                                                                                                                                                | 12 mm                                |
| Nivel sonoro / Sound level / Niveau sonore                                                                                                                                                                                                                                                                                                                                                     | 85,3 db                              |
| Nivel de vibración / Vibration level / Niveau de vibration                                                                                                                                                                                                                                                                                                                                     | 3,8 m/s <sup>2</sup>                 |
| Longitud / Length / Longueur                                                                                                                                                                                                                                                                                                                                                                   | 245 mm                               |
| Designación ATEX / ATEX marking / Marquage ATEX                                                                                                                                                                                                                                                                                                                                                | ⊕ II 2G Ex h IIB T5 Gb               |
| Peso / Weight / Poids                                                                                                                                                                                                                                                                                                                                                                          | 7,3 kg                               |



| COD.                                                                                                                                                                                                                                                                                                                                                                                           |                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 79919                                                                                                                                                                                                                                                                                                                                                                                          |                                      |
| Ex CE I 12M                                                                                                                                                                                                                                                                                                                                                                                    |                                      |
| CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES                                                                                                                                                                                                                                                                                                                                                  |                                      |
| Accesorios no incluidos / Accessories not included / Accessoires non inclus                                                                                                                                                                                                                                                                                                                    |                                      |
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| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES                                                                                                                                                                                                                                                                                                                       |                                      |
| Tipo / Type / Type                                                                                                                                                                                                                                                                                                                                                                             | Hidráulico / Hydraulic / Hydraulique |
| Presión de trabajo / Working pressure / Pression de travail                                                                                                                                                                                                                                                                                                                                    | 140 bar                              |
| Cuadrado conductor / Square drive / Carré conducteur                                                                                                                                                                                                                                                                                                                                           | 1"                                   |
| Par / Torque / Paire                                                                                                                                                                                                                                                                                                                                                                           | 2500 Nm                              |
| Caudal hidráulico / Oil flow / Flux d'huile                                                                                                                                                                                                                                                                                                                                                    | 25-45 l/min                          |
| Para pernos y tuercas / For bolts and nuts / Pour boulons et écrous                                                                                                                                                                                                                                                                                                                            | ≤ M36 (55 mm AF)                     |
| Conexión / Connection / Connexion                                                                                                                                                                                                                                                                                                                                                              | 1/2"FF                               |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                                                                                                                                                                                                                                                                                                                                                | 12 mm                                |
| Designación ATEX / ATEX marking / Marquage ATEX                                                                                                                                                                                                                                                                                                                                                | ⊕ II 2G Ex h IIB T5 Gb               |
| Peso / Weight / Poids                                                                                                                                                                                                                                                                                                                                                                          | 10,7 kg                              |



Vasos de impacto - Cuadrado 3/4" y 1" - Ver capítulo de Llaves de vaso.  
 Impact socket wrenches - 3/4" and 1" Sq. Drive - See Socket wrenches chapter.  
 Douilles à choc - Carrée de 3/4" et 1" - Voir chapitre Douilles.

12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

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## AQUAMaster

### ■ TALADROS / DRILLS / PERCEUSES / KLEINBOHRMASCHINE / TRAPANI / BERBEQUINS / ДРЕЛИ

Los taladros de uso subacuático de EGA Master son robustos, potentes y muy manejables. El usuario dispone de diferentes modelos para poder escoger el que más se adapte a sus necesidades. El taladro percutor de EGA Master está pensado para realizar taladros y perforaciones en multitud de materiales. La gran diferencia frente a un taladro normal, es la posibilidad de seleccionar un movimiento de percusión que acompañe al de rotación, facilitando enormemente la capacidad de perforación. Es imprescindible para perforar espesores muy gruesos de material de obra determinados o materiales muy duros, como el hormigón, la piedra, etc.

EGA Master's drills for underwater use are solid, powerful and very manageable. The user can choose different models that best suit his your needs. EGA Master Hammer drill is designed for drilling holes in several types of materials. The great difference from an ordinary drill, is the possibility of selecting a percussive movement that accompanies the rotation, greatly facilitating the drilling performance. This drill is essential to bore very thick or very hard materials such as concrete, stone, etc.

Les perceuses subaquatiques d'EGA Master sont robustes, puissantes et très maniables. L'utilisateur dispose de différents modèles pour pouvoir choisir celui qui s'adapte le mieux à ses besoins. La perceuse à percussion d'EGA Master a été conçue pour réaliser des perçages dans des multitudes de matériaux. La grande différence face à une perceuse normale, est la possibilité de sélectionner un mouvement de percussion qui accompagne celui de rotation, facilitant énormément la capacité de perforation. Elle est indispensable pour percer de grosses épaisseurs de matériau de travail ou des matériaux très durs, comme le béton, la pierre, etc.

### ■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

COD.

79904

79905

CE I 12M

#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                    |                                     |
|------------------------------------------------------------------------------------|-------------------------------------|
| Tipo / Type / Type                                                                 | Neumático / Pneumatic / Pneumatique |
| Presión de trabajo / Working pressure / Pression de travail                        | 6 bar                               |
| Portabrocas / Chuck / Mandrin                                                      |                                     |
|                                                                                    | 79904 10 mm                         |
|                                                                                    | 79905 13 mm                         |
| Capacidad / Capacity / Capacité                                                    |                                     |
|                                                                                    | 79904 10 mm (acero)                 |
|                                                                                    | 79905 13 mm (acero)                 |
| RPM                                                                                |                                     |
|                                                                                    | 79904 1550                          |
|                                                                                    | 79905 850                           |
| Potencia / Power / Puissance                                                       | 0,5 kW                              |
| Conexión (entrada/salida) / Connection (inlet/outlet) / Connexion (entrée /sortie) | R 1/4" f - R 3/8" f                 |
| Consumo de aire / Air consumption / Consommation d'air                             | 0,6 m <sup>3</sup> /min             |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                                    | ≥ 10 mm                             |
| Nivel sonoro / Sound level / Niveau sonore                                         | 84 db                               |
| Nivel de vibración / Vibration level / Niveau de vibration                         | <2,5 m/s <sup>2</sup>               |
| Longitud / Length / Longueur                                                       |                                     |
|                                                                                    | 79904 235 mm                        |
|                                                                                    | 79905 245 mm                        |
| Conexión / Connection / Connexion                                                  | R1/4" f / R3/8" f                   |
| Designación ATEX / ATEX marking / Marquage ATEX                                    | Ⓜ II 2G Ex h IIB T6 Gb              |
| Peso / Weight / Poids                                                              | 2,1 kg                              |



# AQUAMaster

## TALADRO CON PERCUSIÓN / IMPACT DRILL / PERCEUSE À PERCUSSION / SCHLAGBOHRMASCHINE / TRAPANO A PERCUSSIONE / BERBEQUIM DE PERCUSSÃO / УДАРНАЯ ДРЕЛЬ

COD.

**79906**

Ex CE I 12M

### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                   |                                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Tipo / Type / Type                                                                | Neumático / Pneumatic / Pneumatique                                                                 |
| Presión de trabajo / Working pressure / Pression de travail                       | 6 bar                                                                                               |
| Portabrocas / Chuck / Mandrin                                                     | 13 mm                                                                                               |
| Capacidad / Capacity / Capacité                                                   | 13 mm (acero) - 20 mm (hormigón) / 13 mm (steel) - 20 mm (concrete) / 13 mm (acier) - 20 mm (béton) |
| RPM                                                                               | 950                                                                                                 |
| Potencia / Power / Puissance                                                      | 0,5 kW                                                                                              |
| Consumo de aire / Air consumption / Consommation d'air                            | 0,6 m <sup>3</sup> /min                                                                             |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                                   | ≥ 10 mm                                                                                             |
| Nivel sonoro / Sound level / Niveau sonore                                        | 84 db                                                                                               |
| Nivel de vibración / Vibration level / Niveau de vibration                        | <2,5 m/s <sup>2</sup>                                                                               |
| Conexión (entrada/salida) / Connection (inlet/outlet) / Connexion (entrée/sortie) | R 1/4" f - R 3/8" f                                                                                 |
| Longitud / Length / Longueur                                                      | 300 mm                                                                                              |
| Designación ATEX / ATEX marking / Marquage ATEX                                   | ⊕ II 2G Ex h IIB T6 Gb                                                                              |
| Peso / Weight / Poids                                                             | 3,3 kg                                                                                              |



COD.

**79907**

Ex CE I 12M

### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                   |                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|
| Tipo / Type / Type                                                                | Neumático / Pneumatic / Pneumatique                 |
| Presión de trabajo / Working pressure / Pression de travail                       | 6 bar                                               |
| Capacidad / Capacity / Capacité                                                   | 28 mm (hormigón) / 28 mm (concrete) / 28 mm (béton) |
| RPM                                                                               | 625                                                 |
| Potencia / Power / Puissance                                                      | 0,5 kW                                              |
| Consumo de aire / Air consumption / Consommation d'air                            | 0,6 m <sup>3</sup> /min                             |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                                   | ≥ 10 mm                                             |
| Nivel sonoro / Sound level / Niveau sonore                                        | 93 db                                               |
| Nivel de vibración / Vibration level / Niveau de vibration                        | 4,5 m/s <sup>2</sup>                                |
| Conexión (entrada/salida) / Connection (inlet/outlet) / Connexion (entrée/sortie) | R 1/2" f - R 3/8" f                                 |
| Impactos por minuto / Impacts per minute / Impacts par minute                     | 3000                                                |
| Adaptador / Adapter plug / Adaptateur                                             | SDS-plus®                                           |
| Longitud / Length / Longueur                                                      | 400 mm                                              |
| Designación ATEX / ATEX marking / Marquage ATEX                                   | ⊕ II 2G Ex h IIB T6 Gb                              |
| Peso / Weight / Poids                                                             | 6,3 kg                                              |



**12M** GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

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# AQUA Master

COD.

79908

CE I 12M

## CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / *Accessories not included* / Accessoires non inclus

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## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                           |                                                                                                                         |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Tipo / Type / Type                                                                        | Neumático / <i>Pneumatic</i> / Pneumatique                                                                              |
| Presión de trabajo / <i>Working pressure</i> / Pression de travail                        | 6 bar                                                                                                                   |
| Portabrocas / <i>Chuck</i> / Mandrin                                                      | SDS-max                                                                                                                 |
| Capacidad / <i>Capacity</i> / Capacité                                                    | 50 mm (hormigón) - 80 mm (mampostería) / <i>50 mm (concrete) - 80 mm (masonry)</i> / 50 mm (béton) - 80 mm (maçonnerie) |
| RPM                                                                                       | 250                                                                                                                     |
| Potencia / <i>Power</i> / Puissance                                                       | 1,5 kW                                                                                                                  |
| Consumo de aire / <i>Air consumption</i> / Consommation d'air                             | 1,5 m <sup>3</sup> /min                                                                                                 |
| Manguera (Øint.) / <i>Hose (Øint.)</i> / Tuyau (Øint.)                                    | ≥ 13 mm                                                                                                                 |
| Nivel sonoro / <i>Sound level</i> / Niveau sonore                                         | 90,4 db                                                                                                                 |
| Nivel de vibración / <i>Vibration level</i> / Niveau de vibration                         | 9,2 m/s <sup>2</sup>                                                                                                    |
| Conexión (entrada/salida) / <i>Connection (inlet/outlet)</i> / Connexion (entrée /sortie) | R 1/2" f - R 3/8" f                                                                                                     |
| Impactos por minuto / <i>Impacts per minute</i> / Impacts par minute                      | 2500                                                                                                                    |
| Longitud / <i>Length</i> / Longueur                                                       | 640 mm                                                                                                                  |
| Designación ATEX / <i>ATEX marking</i> / Marquage ATEX                                    | ⊕ II 2G Ex h IIB T6 Gb                                                                                                  |
| Peso / <i>Weight</i> / Poids                                                              | 13,3 kg                                                                                                                 |



## HIDRÁULICA / HYDRAULIC / HYDRAULIQUE / HYDRAULISCH / IDRAULICA / HIDRÁULICA / ГИДРАВЛИЧЕСКИЕ

COD.

79912

CE I 12M

## CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / *Accessories not included* / Accessoires non inclus

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## ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                    |                                             |
|--------------------------------------------------------------------|---------------------------------------------|
| Tipo / Type / Type                                                 | Hidráulico / <i>Hydraulic</i> / Hydraulique |
| Presión de trabajo / <i>Working pressure</i> / Pression de travail | 140 bar                                     |
| RPM                                                                | 280                                         |
| Potencia / <i>Power</i> / Puissance                                | 1,6 kW                                      |
| Par / <i>Torque</i> / Paire                                        | 60 Nm                                       |
| Caudal hidráulico / <i>Oil flow</i> / Flux d'huile                 | 10 l/min                                    |
| Conexión / <i>Connection</i> / Connexion                           | 1/2" FF                                     |
| Nivel sonoro / <i>Sound level</i> / Niveau sonore                  | 85,2 db                                     |
| Portabrocas / <i>Chuck</i> / Mandrin                               | MT3                                         |
| Nivel de vibración / <i>Vibration level</i> / Niveau de vibration  | <15,8 m/s <sup>2</sup>                      |
| Peso / <i>Weight</i> / Poids                                       | 8,5 kg                                      |



# AQUA Master

## TALADRO CON PERCUSIÓN / IMPACT DRILL / PERCEUSE À PERCUSSION / SCHLAGBOHRMASCHINE / TRAPANO A PERCUSSIONE / BERBEQUIM DE PERCUSSÃO / УДАРНАЯ ДРЕЛЬ

COD.

**79915**

Ex CE I 12M



### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                               |                                                                                                                  |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Tipo / Type / Type                                            | Hidráulico / Hydraulic / Hydraulique                                                                             |
| Presión de trabajo / Working pressure / Pression de travail   | 80 bar                                                                                                           |
| Impactos por minuto / Impacts per minute / Impacts par minute | 3400                                                                                                             |
| Capacidad / Capacity / Capacité                               | 28 mm (hormigón) - 50 mm (mampostería) / 28 mm (concrete) - 50 mm (masonry) / 28 mm (béton) - 50 mm (maçonnerie) |
| RPM                                                           | 500                                                                                                              |
| Potencia / Power / Puissance                                  | 1,2 kW                                                                                                           |
| Caudal hidráulico / Oil flow / Flux d'huile                   | 15-45 l/min                                                                                                      |
| Conexión / Connection / Connexion                             | 3/4"-16UNF                                                                                                       |
| Adaptador / Adapter plug / Adaptateur                         | SDS-plus®                                                                                                        |
| Nivel sonoro / Sound level / Niveau sonore                    | 92 db                                                                                                            |
| Nivel de vibración / Vibration level / Niveau de vibration    | 4,5 m/s <sup>2</sup>                                                                                             |
| Longitud / Length / Longueur                                  | 460 mm                                                                                                           |
| Designación ATEX / ATEX marking / Marquage ATEX               | Ⓜ II 2G Ex h IIB T5 Gb                                                                                           |
| Peso / Weight / Poids                                         | 8,2 kg                                                                                                           |

COD.

**79916**

Ex CE I 12M



### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                               |                                                                                                                  |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Tipo / Type / Type                                            | Hidráulico / Hydraulic / Hydraulique                                                                             |
| Presión de trabajo / Working pressure / Pression de travail   | 80 bar                                                                                                           |
| Impactos por minuto / Impacts per minute / Impacts par minute | 2300                                                                                                             |
| Capacidad / Capacity / Capacité                               | 50 mm (hormigón) - 80 mm (mampostería) / 50 mm (concrete) - 80 mm (masonry) / 50 mm (béton) - 80 mm (maçonnerie) |
| RPM                                                           | 270                                                                                                              |
| Potencia / Power / Puissance                                  | 1,2 kW                                                                                                           |
| Caudal hidráulico / Oil flow / Flux d'huile                   | 15-45 l/min                                                                                                      |
| Conexión / Connection / Connexion                             | 3/4"-16UNF                                                                                                       |
| Adaptador / Adapter plug / Adaptateur                         | SDS-max                                                                                                          |
| Nivel sonoro / Sound level / Niveau sonore                    | 92 db                                                                                                            |
| Nivel de vibración / Vibration level / Niveau de vibration    | 9 m/s <sup>2</sup>                                                                                               |
| Longitud / Length / Longueur                                  | 640 mm                                                                                                           |
| Designación ATEX / ATEX marking / Marquage ATEX               | Ⓜ II 2G Ex h IIB T5 Gb                                                                                           |
| Peso / Weight / Poids                                         | 14 kg                                                                                                            |

12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

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 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
 Si vous ne trouvez pas l'article que vous desirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)

## AQUA Master

TALADRO MAGNÉTICO / MAGNETIC CORE DRILL / PERCEUSE MAGNÉTIQUE / KERNLOCHBOHRER MIT MAGNETFÜß / TRAPANO MAGNETICO / BERBEQUIM MAGNÉTICO / СТАНОК ДЛЯ ВЫРЕЗАНИЯ ОТВЕРСТИЙ НА МАГНИТНОЙ ПОДУШКЕ

COD.

79432

Ex CE I 12M

### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

Para más información técnica o sobre los accesorios consultar en [www.egamaster.com](http://www.egamaster.com) / For more technical information or accessories check [www.egamaster.com](http://www.egamaster.com) / Pour de plus amples informations techniques et des accessoires, veuillez consulter le site [www.egamaster.com](http://www.egamaster.com)

### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                 |                                      |
|-------------------------------------------------------------------------------------------------|--------------------------------------|
| Tipo / Type / Type                                                                              | Hidráulico / Hydraulic / Hydraulique |
| Presión de trabajo / Working pressure / Pression de travail                                     | 140 bar                              |
| Portabrocas / Chuck / Mandrin                                                                   | MT3                                  |
| Máximo diámetro de perforación / Maximum diameter of drilling / Diamètre maximum de perforation | 100 mm                               |
| Fuerza magnética / Magnetic force / Force magnétique                                            | 850 kg                               |
| RPM                                                                                             | 40-250                               |
| Potencia / Power / Puissance                                                                    | 2,5 kW                               |
| Caudal hidráulico / Oil flow / Flux d'huile                                                     | 20-23 l/min                          |
| Carrera / Stroke / Parcours                                                                     | 300 mm                               |
| Nivel sonoro / Sound level / Niveau sonore                                                      | 79,8 db                              |
| Nivel de vibración / Vibration level / Niveau de vibration                                      | <2,5 m/s <sup>2</sup>                |
| Designación ATEX / ATEX marking / Marquage ATEX                                                 | Ⓜ II 2G c IIB T5                     |
| Peso / Weight / Poids                                                                           | 22,5 kg                              |



# EGGA Master

## ART IN INNOVATION

## AQUAMaster

### SIERRAS PORTÁTILES / RECIPROCATING SAWS / SCIES PORTABLES / STICHSÄGE / SEGNETTI PORTATILI / SERRAS PORTÁTEIS / ПИЛЫ ВОЗВРАТНО-ПОСТУПАТЕЛЬНОГО ДЕЙСТВИЯ

Las sierras portátiles son herramientas necesarias para poder realizar todo tipo de cortes; cortes cruzados, rectos, cortes curvos, cortes en pico, biselados, etc. Destacan las sierras sable también conocidas como sierras de vaivén, que como bien dice su nombre, aprovechan el movimiento de vaivén de su cuchilla para facilitar la realización de cortes.

Reciprocating saws are necessary tools to perform all types of cutting: cross cut, straight, curved cuts, cuts in peak, beveled, etc.. It is worth highlighting saber saws also known as jigsaws, which use the swinging motion of its blade to make cuts easier.

Les scies portables sont adaptées pour des coupes; coupes croisées, droites, courbes, biseautées, etc... Il y a aussi les scies sabres, avec un mouvement de va et vient, pour faciliter la coupe.

### HIDRÁULICA / HYDRAULIC / HYDRAULIQUE / HYDRAULISCH / IDRAULICA / HIDRÁULICA / ГИДРАВЛИЧЕСКИЕ

COD.

79913

Ex CE I 12M

#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                |                                      |
|----------------------------------------------------------------|--------------------------------------|
| Tipo / Type / Type                                             | Hidráulico / Hydraulic / Hydraulique |
| Presión de trabajo / Working pressure / Pression de travail    | 140 bar                              |
| Tipo de válvula / Valve type / Type de valve                   | Twist                                |
| Carrera / Stroke / Parcours                                    | 60 mm                                |
| N.º de golpes / Number of strokes / Nro. de coups              | 500 rpm                              |
| Potencia / Power / Puissance                                   | 2,8 kW                               |
| Caudal hidráulico / Oil flow / Flux d'huile                    | 10-50 l/min                          |
| Conexión / Connection / Connexion                              | 12S                                  |
| Manguera (Øint.) / Hose (Øint.) / Tuyau (Øint.)                | 12 mm                                |
| Nivel sonoro / Sound level / Niveau sonore                     | 86 db                                |
| Nivel de vibración / Vibration level / Niveau de vibration     | <2,5 m/s <sup>2</sup>                |
| Material de la carcasa / Casing material / Matière de la coque | Aluminio / Aluminum / Aluminium      |
| Designación ATEX / ATEX marking / Marquage ATEX                | Ex II 2G Ex h IIB T5 Gb              |
| Peso / Weight / Poids                                          | 6,1 kg                               |



### SIERRA DE SABLE / SABRE SAW / SCIE SABRE / SÄBELSÄGE / SEGNETTO ALTERNATIVO / SERRA DE SABRE / САБЕЛЬНАЯ ПИЛА

COD.

79914

Ex CE I 12M

#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                             |                                                                                           |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Tipo / Type / Type                                          | Hidráulico / Hydraulic / Hydraulique                                                      |
| Presión de trabajo / Working pressure / Pression de travail | 140 bar                                                                                   |
| Tipo de válvula / Valve type / Type de valve                | Trigger                                                                                   |
| Carrera / Stroke / Parcours                                 | 28 mm                                                                                     |
| N.º de golpes / Number of strokes / Nro. de coups           | 1500 rpm                                                                                  |
| Potencia / Power / Puissance                                | 1,5 kW                                                                                    |
| Caudal hidráulico / Oil flow / Flux d'huile                 | 22-50 l/min                                                                               |
| Conexión / Connection / Connexion                           | 1/2" FF                                                                                   |
| Nivel sonoro / Sound level / Niveau sonore                  | 89,4 db                                                                                   |
| Nivel de vibración / Vibration level / Niveau de vibration  | <2,5 m/s <sup>2</sup>                                                                     |
| Capacidad de corte / Cutting capacity / Capacité de coupe   | Madera: 160 mm - Acero: 19 mm / Wood: 160 mm - Steel: 19 mm / Bois: 160 mm - Acier: 19 mm |
| Designación ATEX / ATEX marking / Marquage ATEX             | Ex II 2G Ex h IIB T5 Gb                                                                   |
| Peso / Weight / Poids                                       | 6,0 kg                                                                                    |



# AQUAMaster

## SIERRA DE CADENA / CHAIN SAW / SCIE À CHAÎNE / KETTENSÄGE / SEGNETTO A CATENA / SERRA DE CORRENTE / ЦЕПНАЯ ПИЛА

COD.

**79980**

Ex CE I 12M

### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                             |                                      |
|-------------------------------------------------------------|--------------------------------------|
| Tipo / Type / Type                                          | Hidráulico / Hydraulic / Hydraulique |
| Presión de trabajo / Working pressure / Pression de travail | 140-200 bar                          |
| Potencia / Power / Puissance                                | 7,7 kW                               |
| RPM                                                         | 5000 rpm                             |
| Caudal hidráulico / Oil flow / Flux d'huile                 | 40-50 l/min                          |
| Nivel sonoro / Sound level / Niveau sonore                  | 85 db                                |
| Nivel de vibración / Vibration level / Niveau de vibration  | <3,6 m/s <sup>2</sup>                |
| Designación ATEX / ATEX marking / Marquage ATEX             | Ex II 2G c IIB T5                    |
| Peso / Weight / Poids                                       | 10,5 Kg                              |



## ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACCESSORIOS / ЗАПАСНЫЕ ЧАСТИ

| COD.         | Descripción / Description / Description                              |
|--------------|----------------------------------------------------------------------|
| <b>74752</b> | Sable porta cadena 27cm / Chainbar 27cm / Porte chaîne sable 27cm    |
| <b>79981</b> | Sable porta cadena 43cm / Chainbar 43cm / Porte chaîne sable 43cm    |
| <b>79983</b> | Sable porta cadena 63cm / Chainbar 63cm / Porte chaîne sable 63cm    |
| <b>74755</b> | Sable porta cadena 73cm / Chainbar 73cm / Porte chaîne sable 73cm    |
| <b>74770</b> | Sable porta cadena 103cm / Chainbar 103cm / Porte chaîne sable 103cm |



| COD.         | Descripción / Description / Description                         |
|--------------|-----------------------------------------------------------------|
| <b>74354</b> | Cadena para sable 27cm / Chain 27cm / Chaîne pour sable 27cm    |
| <b>74359</b> | Cadena para sable 43cm / Chain 43cm / Chaîne pour sable 43cm    |
| <b>79986</b> | Cadena para sable 63cm / Chain 63cm / Chaîne pour sable 63cm    |
| <b>74362</b> | Cadena para sable 73cm / Chain 73cm / Chaîne pour sable 73cm    |
| <b>74369</b> | Cadena para sable 103cm / Chain 103cm / Chaîne pour sable 103cm |



| COD.         | Descripción / Description / Description                                                                                                         |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>79982</b> | Cadena con punta de diamante 43cm / Diamant tipped chain 43cm / Chaîne avec pointe de diamant 43cm                                              |
| <b>74405</b> | Cadena con punta de diamante 43cm Universal / Diamant tipped chain 43cm Universal / Chaîne avec pointe de diamant 43cm Universelle              |
| <b>74624</b> | Cadena con punta de diamante 43cm Alta duración / Diamant tipped chain 43cm High duration / Chaîne avec pointe de diamant 43cm Haute durabilité |



| COD.         | Descripción / Description / Description                                                              |
|--------------|------------------------------------------------------------------------------------------------------|
| <b>74372</b> | Cadena con punta de carburo 27cm / Carbide-tipped chain 27cm / Chaîne avec pointe de carbure 27cm    |
| <b>74375</b> | Cadena con punta de carburo 43cm / Carbide-tipped chain 43cm / Chaîne avec pointe de carbure 43cm    |
| <b>79985</b> | Cadena con punta de carburo 63cm / Carbide-tipped chain 63cm / Chaîne avec pointe de carbure 63cm    |
| <b>74393</b> | Cadena con punta de carburo 73cm / Carbide-tipped chain 73cm / Chaîne avec pointe de carbure 73cm    |
| <b>74996</b> | Cadena con punta de carburo 103cm / Carbide-tipped chain 103cm / Chaîne avec pointe de carbure 103cm |



| COD.         | Descripción / Description / Description                                               |
|--------------|---------------------------------------------------------------------------------------|
| <b>74785</b> | Guarda de sable para 43cm / Guard of chainbar 43cm / Étui pour sable de 43cm          |
| <b>79984</b> | Guarda de sable para 63/73cm / Guard of chainbar 63/73cm / Étui pour sable de 63/73cm |





## AQUAMaster

### ■ PERFORADORA / CORE DRILL / CAROTTEUSE À BETON / BOHRHAMMER / PERFORATORE / PERFURADORA / ДРЕЛЬ АЛМАЗНОГО БУРЕНИЯ

Las perforadoras de EGA Master son máquinas portátiles hidráulicas para hacer perforaciones en superficies de muy diversos materiales; piedra, ladrillo, hormigón, bloque... Dispone de tres velocidades de perforación y su capacidad máxima es de 160mm.

EGA Master's core drills are portable hydraulic machines that drill the surfaces made of very different materials such as stone, brick, concrete, block... They have three drilling speeds and maximum capacity of 160 mm.

Les perceurs d'EGA Master sont des machines hydrauliques portatives, pour toutes sortes de matériaux. Elles ont trois vitesses de perforation et la capacité max est de 160 mm.

### ■ NEUMÁTICO / PNEUMATIC / PNEUMATIQUE / PNEUMATIK / PNEUMATICA / PNEUMÁTICO / ПНЕВМАТИЧЕСКИЕ

COD.

79357

Ex CE I 12M



#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                             |                                                                                                 |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Tipo / Type / Type                                          | Neumático / Pneumatic / Pneumatique                                                             |
| Presión de trabajo / Working pressure / Pression de travail | 6 bar                                                                                           |
| Par / Torque / Paire                                        | 49/31/16 Nm                                                                                     |
| Consumo de aire / Air consumption / Consommation d'air      | 2,2 m <sup>3</sup> /min                                                                         |
| Conexión / Connection / Connexion                           | R 3/4" a                                                                                        |
| RPM                                                         | 400-900-1600                                                                                    |
| Potencia / Power / Puissance                                | 1,6 kW                                                                                          |
| Brocas standard / Standard drills / Mèche standard          | ≤160 mm                                                                                         |
| Conexión a broca / Bit connection / Connexion de bits       | 1.1/4"UNC macho / R1/2" hembra / 1.1/4"UNC male / R1/2" female / 1.1/4"UNC mâle / R1/2" femelle |
| Longitud / Length / Longueur                                | 540 mm                                                                                          |
| Designación ATEX / ATEX marking / Marquage ATEX             | ⊕ II 2G Ex h IIB T6 Gb                                                                          |
| Peso / Weight / Poids                                       | 8,2 kg                                                                                          |

### ■ HIDRÁULICA / HYDRAULIC / HYDRAULIQUE / HYDRAULISCH / IDRAULICA / HIDRÁULICA / ГИДРАВЛИЧЕСКИЕ

COD.

79920

Ex CE I 12M



#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Accesorios no incluidos / Accessories not included / Accessoires non inclus

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#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                             |                                                                                                 |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Tipo / Type / Type                                          | Hidráulico / Hydraulic / Hydraulique                                                            |
| Presión de trabajo / Working pressure / Pression de travail | 140 bar                                                                                         |
| RPM                                                         | 380-900-1800                                                                                    |
| Potencia / Power / Puissance                                | 2,8 kW                                                                                          |
| Par / Torque / Paire                                        | 60/38/17 Nm                                                                                     |
| Caudal hidráulico / Oil flow / Flux d'huile                 | 22-45 l/min                                                                                     |
| Conexión / Connection / Connexion                           | 1/2" FF                                                                                         |
| Brocas standard / Standard drills / Mèche standard          | ≤160 mm                                                                                         |
| Conexión a broca / Bit connection / Connexion de bits       | 1.1/4"UNC macho / R1/2" hembra / 1.1/4"UNC male / R1/2" female / 1.1/4"UNC mâle / R1/2" femelle |
| Longitud / Length / Longueur                                | 490 mm                                                                                          |
| Designación ATEX / ATEX marking / Marquage ATEX             | ⊕ II 2G Ex h IIB T5 Gb                                                                          |
| Peso / Weight / Poids                                       | 8,5 kg                                                                                          |

## AQUAMaster

### ■ LINTERNA / TORCH / LAMPE / TASCHENLAMP / TORCIA / LANTERNA / ФОНАРЬ

#### ■ MASTEREX 79598

La Linterna MasterEx 79598 ofrece una autonomía de 13 horas con sus 4 pilas alcalinas AA y está equipada con un LED de potencia 1W.

Su ligereza, ergonomía y su grado de protección IP68 la convierten en una linterna perfecta para su uso tanto en ambientes de gas explosivos peligrosos, hasta zona 0, como para uso subacuático.

*The MasterEx 79598 LED torch offers 13 hours of continuous work with 4 AA alkaline batteries and is equipped with a 1W power LED.*

*Its light, ergonomics and IP68 protection grade makes it a perfect torch for use both in hazardous gas areas, up to Zone 0, and for underwater use.*

La lampe LED MasterEx 79598 offre une autonomie de 13 heures avec ses 4 piles alcalines AA et elle est composée par un LED de puissance 1W.

Sa légèreté, ergonomie et degré de protection IP68, la transforment en lampe parfaite pour utiliser dans les environnements de gaz explosifs dangereux, jusqu'à la Zone 0, comme pour utilisation subaquatique.

COD.

79598

Ex CE I 12M



#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                |                                                                                          |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Fuente de luz / Light source / Source de lumière               | Osram 1 W Led                                                                            |
| Luminosidad / Brightness / Luminosité                          | 60 Lúmenes / 60 Lumens / 60 Lumens                                                       |
| Alimentación / Power supply / Alimentation                     | 4 x AA pilas (certificadas) / 4 x AA batteries (type tested) / 4 x AA piles (certifiées) |
| Clase de protección / Protection class / Classe de protection  | IP68                                                                                     |
| Designación ATEX / ATEX marking / Marquage ATEX                | ⊕ II 1 G Ex ia IIC T4 ia D 20 T135°C                                                     |
| Inmersión continua / Continuous immersion / Immersion continue | ●                                                                                        |
| Baterías incluidas / Included batteries / Piles incluses       | ●                                                                                        |
| Longitud / Length / Longueur                                   | 175 mm                                                                                   |
| Peso / Weight / Poids                                          | 96 g                                                                                     |



12M GARANTIA 12 MESES / 12 MONTHS OF WARRANTY / 12 MOIS DE GARANTIE / 12 MONATEN GARANTIE / 12 MAANDEN GARANTIE / 12 MESI DI GARANZIA / 12 МЕСЯЦЕВ ГАРАНТИЯ

40

ANTI-MAGNÉTICA DE TITANIO  
NON-MAGNETIC TITANIUM  
AMAGNETIQUE EN TITANE  
TITAN NICHT MAGNETISCH  
ANTIMAGNETICO AL TITANIO  
ANTI-MAGNÉTICO DE TITÂNIO  
НЕМАГНИТНЫЙ ТИТАНОВЫЙ



TITANIO  
TITANIUM  
TITANE

Las herramientas de Titanio EGA Master han sido desarrolladas con la más alta tecnología y fabricadas en aleación de Titanio 6Al-4V, para ser usadas en los más exigentes y avanzados campos, tales como la aviación, equipos hospitalarios, aplicaciones aeroespaciales y militares. Estas propiedades hacen que esta aleación sea la mejor que actualmente existe para aplicaciones críticas y especiales que requieren una gran capacidad mecánica, combinada con características que otra aleación no puede conseguir, como la de ser no-magnética, etc. Muchas aplicaciones requieren herramientas completamente no magnéticas para no causar ninguna alteración, por ejemplo dispositivos muy sensibles usados en laboratorios, hospitales, centros de transformación, estaciones de radar, antenas etc.

*EGA Master Titanium Tools have been developed with the help of the most advanced technology. They are manufactured with Titanium alloy, 6Al-4V, which has been used in the most innovative and advanced fields, such as aviation, military and aerospace applications. Its properties make this alloy the best one among the current existing ones for special and critical applications that require high mechanical properties, combined together with features that no other steel alloy tool can reach, like Non-Magnetism. Many applications require the use of totally non-magnetic tools in order to avoid any magnetic disturbance, such as very sensitive electronic devices used in laboratories, hospitals, power plants, etc.*

L'outillage en Titane d'EGA Master a été développé avec la plus haute technologie, alliage de Titane 6Al-4V, utilisé dans les domaines les plus avancés et les plus techniques comme l'aviation, l'industrie militaire et les applications aérospaciales. Les propriétés du Titane font de cet alliage, le meilleur pour des applications critiques et spéciales qui requièrent une grande résistance mécanique, combinée avec d'autres caractéristiques que d'autres alliages de fer n'ont pas, comme l'amagnétisme. Beaucoup d'applications nécessitent des caractéristiques totalement amagnétiques, pour ne pas causer d'altération magnétique, par exemple, avec des dispositifs très sensibles utilisés dans les laboratoires, les hopitaux et les centres de transformation...

| Propiedades<br>Properties<br>Propriétés                                                                                  | Aplicación y beneficios<br>Application & benefits<br>Applications                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 100 % seguridad de anti- magnetismo<br><i>100% non-magnetic safety</i><br>100% sécurité anti-magnétique                  | Esencial para equipos que requieren una completa seguridad no magnética<br><i>Essential for equipments that require complete non-magnetic safety, avoiding magnetic disturbance</i><br>Essentiel pour des équipements nécessitant de l'outillage amagnétique                                                                                                                                                                                                                                  |
| Inoxidable (más que el acero inoxidable)<br><i>Rustproof (more than stainless steel)</i><br>Inoxidable (plus que l'inox) | Especialmente concebidos para aplicaciones en entornos corrosivos como pueden ser en trabajos en la marina o de aplicaciones de bomberos<br><i>Specially well suited for applications in corrosive environments like the ones encountered in marine works or fire-fighting applications</i><br>Spécialement conçu pour des lieux à fort taux de corrosion, comme des travaux marins ou des utilisations par des pompiers                                                                      |
| Extremadamente resistente al ácido<br><i>Extremely Acid Resistant</i><br>Extremely Acid Resistant                        | Perfecto para la industria química, herramienta duradera<br><i>Perfect for Chemical Industry, long lasting tools</i><br>Parfait pour l'industrie chimique, outillage à longue durabilité                                                                                                                                                                                                                                                                                                      |
| Hipoalergénico<br><i>Hypoallergenic</i><br>Hipoalergénique                                                               | También apropiado por el incremento diario de alergias hacia materiales como el Ni, la alergia más frecuente, presente en la mayoría de las aleaciones de acero<br><i>Also appropriate for the daily increasing allergies to materials such as Ni, the most frequent allergy, present on most of the steel alloys</i><br>Aussi approprié pour éviter les allergies, tous les jours croissantes, au matériau tel que le Nickel (allergie la plus fréquente), présent dans les alliages d'acier |
| 45 % más ligero que el acero<br><i>45% lighter than steel</i><br>45% plus léger que l'acier                              | Evita las modernas y frecuentes lesiones causadas por movimientos de carga, como pueden ser la tendinitis o bursitis<br><i>Avoids modern and frequent injuries caused by repetitive load movements, such as tendinitis or bursitis</i><br>Fait éviter les lésions fréquentes du monde moderne telles que les tendinites, dues à la manipulation de poids                                                                                                                                      |

| MAT.: Ti 6Al-4V                                                                  |                              |
|----------------------------------------------------------------------------------|------------------------------|
| Composición<br><i>Composition</i><br>Composition                                 | V 3,5 % - 4,5 %              |
|                                                                                  | Al 5,5 % - 6,8 %             |
|                                                                                  | Otros / Others / Autres <1 % |
| Dureza / <i>Hardness</i> / Dureté                                                | 33-43 HRC                    |
| Temperatura de fusión<br><i>Melting Temperatura</i><br>Temperature de fusion     | 1650 °C                      |
| Resistencia a la tracción<br><i>Tensile Strength</i><br>Resistance à la traction | 993 N/mm <sup>2</sup>        |



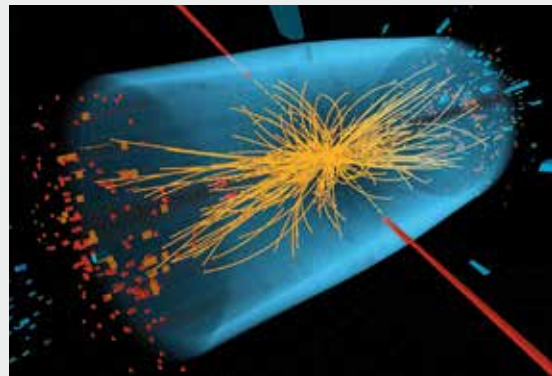
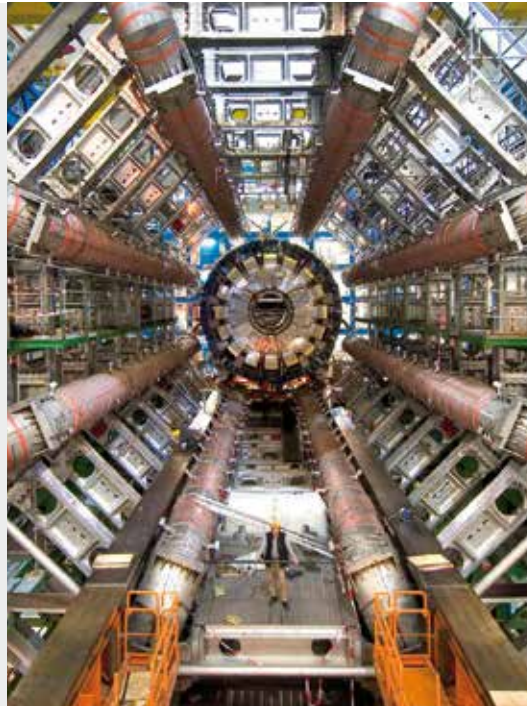
■ **PRINCIPALES CAMPOS DE APLICACIÓN**  
**MAIN APPLICATION FIELDS**  
**PRINCIPAUX CHAMPS D'APPLICATION**

| <b>Propiedad antimagnética</b><br><i>Non-magnetic property</i><br><b>Propriété antimagnétique</b>                                                                                                                                | <b>Inoxidable y resistente al ácido</b><br><i>Rustproof and acid resistant properties</i><br><b>Inoxidable et résistant à l'acide</b> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Marina / <i>Navy</i> / Marine                                                                                                                                                                                                    | Trabajos al exterior / <i>Outdoor works</i> / Travaux extérieurs                                                                      |
| Servicios de reparación de Electrónica y dispositivos Eléctricos<br><i>Electronic and Electric device repairing services</i><br>Services de réparation Electronique et dispositifs électriques                                   | Construcciones de Diques / <i>Dock constructions</i> / Construction de docks                                                          |
| Fabricantes de Electrónica y dispositivos Eléctricos<br><i>Electronic and Electric device manufacturers</i><br>Fabricants d'électronique et de dispositifs électriques                                                           | Aplicaciones sub-acuáticas / <i>Scuba Diving applications</i><br>Applications Sous-marines                                            |
| Estaciones de servicio y energía / <i>Power stations</i><br>Stations-service et energie                                                                                                                                          | Industria química / <i>Chemical Industry</i> / Industrie chimique                                                                     |
| Defensa / <i>Defence</i> / Defense                                                                                                                                                                                               | Bomberos / <i>Fire-fighters</i> / Pompiers                                                                                            |
| Fuerzas aéreas / <i>Air Forces</i> / Forces aériennes                                                                                                                                                                            | Instalaciones de desalinización de aguas<br><i>Water De-salination Installations</i> / Usine de désalement d'eau                      |
| Fabricante de armas / <i>Weapon fabrication</i> / Fabricants d'armes                                                                                                                                                             | Defensa / <i>Defence</i> / Defense                                                                                                    |
| Trabajos ferroviarios / <i>Railway works</i> / Travaux ferrovières                                                                                                                                                               | Fuerzas aéreas / <i>Air Force</i> / Forces aériennes                                                                                  |
| Telecomunicaciones / <i>Telecommunication</i> / Telecommunications                                                                                                                                                               | Marina / <i>Navy</i> / Marine                                                                                                         |
| Aplicaciones aeroespaciales / <i>Aerospace applications</i><br>Applications aéropaciales                                                                                                                                         | Industrias farmacéuticas / <i>Pharmaceutical Industries</i><br>Industrie Pharmaceutique                                               |
| Aviación / <i>Aviation</i> / Aviation                                                                                                                                                                                            | Construcción de barcos / <i>Ship building</i> / Construction navale                                                                   |
| Laboratorios de alta tecnología / <i>High Tech Laboratories</i><br>Laboratoires de haute technologie                                                                                                                             | Plataformas exteriores de Gas y petróleo / <i>Offshore oil and gas platforms</i><br>Plateformes extérieures de gaz et de pétrole      |
| Hospitales (escaners, rayos X, MRI, ECG, Dispositivos desfibriladores...)<br><i>Hospitals (scanners, X-ray, MRI, ECG, Defibrillation devices, CRT...)</i><br>Hopitaux (scaners, rayons X, MRI, ECG, Dispositifs desfilibriseurs) |                                                                                                                                       |
| Industrias farmacéuticas / <i>Pharmaceutical Industries</i><br>Industrie pharmaceutique                                                                                                                                          |                                                                                                                                       |
| Industrias nucleares / <i>Nuclear Industries</i> / Industries nucleaires                                                                                                                                                         | Fabricas de sal / <i>Salt Industry</i> / Usine de sel                                                                                 |
| NMR imanes, espectrómetros, grandes imanes Tesla<br><i>NMR Magnets, Spectrometers, High Tesla Magnets</i><br>NMR aimans, spectromètres, électronique à raisonnance magnétique                                                    |                                                                                                                                       |

■ **INSTRUCCIONES DE USO Y GARANTÍA**  
**INSTRUCTIONS FOR USE & WARRANTY**  
**INSTRUCTIONS DE GARANTIE ET D'UTILISATION**

- Las herramientas de Titanio no pueden alcanzar la dureza de las herramientas convencionales. Esto es debido al hecho de que la composición del material hace que sea imposible que sea inducida su dureza. Por esta razón, el uso de las herramientas de Titanio debe tener un especial cuidado, evitando sobreesfuerzos.  
*Titanium Tools cannot reach the hardness of conventional tools, due to the fact that the material composition makes it impossible to be induction hardened. For this reason the use of Titanium Tools has to be carried out with special care, avoiding overstraining, heating, etc.*  
L'outillage Titane ne peut pas avoir la même dureté que l'outillage traditionnel, car la composition du matériau empêche l'induction de la dureté. Pour cela, il requière une attention spéciale, en évitant la rupture, la chaleur...
- El uso de herramientas de Titanio no debe ser la única medida preventiva en áreas en las que se ha diseñado para ello. Otros objetos, como ropa o material presencial, deben ser también adecuados.  
*The use of Titanium Tools must not be the only preventive measure in areas which the items are designed for. Other items, clothes or present material must also be adequate.*  
L'utilisation d'outillage en Titane ne doit pas être le seul moyen de prévention dans les environnements pour lequel il est conçu. D'autres objets, comme les vêtements et matériaux présents doivent aussi être adaptés aux applications anti-déflagrantes.
- Las herramientas de Titanio de **EGA Master** tienen una garantía de por vida. En el caso de defecto de fabricación deberán ser reparadas o reemplazadas sin ningún coste. El uso indebido es considerado como una excepción de la garantía.  
*EGA Master Titanium Tools are provided with lifetime warranty. In case an EGA Master tool breaks or fails to perform under normal and correct use, it will be repaired or replaced free of cost. Any misuse, abuse or normal service wear is considered as an exception to the warranty.*  
L'outillage en Titane de **EGA Master** a une garantie à vie. Dans le cas d'une rupture ou en présence de vices à la livraison, l'outillage devra être réparé ou remplacé sans aucun surcoût. Une utilisation non conforme exclut la garantie.

¿Sabía usted que las herramientas de Titanio de **EGA Master** se emplean por el laboratorio CERN (Organización Europea de Investigación Nuclear) que recientemente ha encontrado el Bosón de Higgs, uno de los descubrimientos científicos más importantes de todos los tiempos? Las partículas que colisionan durante los experimentos se aceleran a velocidades cercanas a la luz usando potentísimos electro-imanés. Estos últimos requieren del empleo de herramientas completamente amagnéticas, como las herramientas de Titanio fabricadas por **EGA Master**.



Did you know that **EGA Master** titanium tools are used by the CERN laboratory (European Organization for Nuclear Research) which has recently found the Higgs Boson, one of the greatest scientific discoveries of all times? The particles that collide during the experiments are accelerated to speeds that are close to the speed of light by using very powerful electro-magnets. Such magnets require the use of non-magnetic tools, the most non-magnetic of which are the ones made in Titanium by **EGA Master**.

Saviez vous que les outils en titane d'**EGA Master** sont utilisés par le laboratoire CERN (Organisation Européenne de Recherche Nucléaire) qui a récemment découvert le boson d'Higgs, une des découvertes scientifiques les plus importantes de tous les temps? Les particules que entrent en collision durant les expériences s'accélèrent à des vitesses proches de celle de la lumière en utilisant des électro-aimants très puissants. Ces derniers requièrent l'usage d'outils complètement amagnétiques, tels que les outils en Titane fabriqués par **EGA Master**.

■ ALICATES / PLIERS / PINCES / ZANGEN / PINZE / ALICATES / ПЛОСКОГУБЦЫ

■ UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALE / UNIVERSAIS / КОМБИНИРОВАННЫЕ

| COD.  | L (mm) | g   |
|-------|--------|-----|
| 71646 | 160    | 150 |
| 71647 | 200    | 250 |

**BMAT** | Modelo registrado / Registered model / Modèle enregistré



■ TELEFONISTA / LONG NOSE / TÉLÉPHONE / TELEFONZANGEN / TELEFONISTI / TELEFONISTA / СУДЛИННЕННЫМИ НОСАМИ

| COD.  | L (mm) | g   |
|-------|--------|-----|
| 71648 | 180    | 100 |
| 71649 | 200    | 100 |

**BMAT** | Modelo registrado / Registered model / Modèle enregistré



■ CORTE DIAGONAL / DIAGONAL CUTTING PLIERS / COUPANTES DIAGONALES / KRAFTSEITENSCHNEIDER / TAGLIO LATERALE / CORTE DIAGONAL / БОКОРЕЗЫ

| COD.  | L (mm) | g   |
|-------|--------|-----|
| 71650 | 160    | 100 |
| 71651 | 200    | 100 |

**BMAT** | Modelo registrado / Registered model / Modèle enregistré



■ ALICATE TIPO FORD / SLIP JOINT PLIER / PINCE MOTORISTE / MECHANIKERZANGE / PINCE PER GASISTI / ALICATE MOTORISTA / СКОЛЬЗЯЩИЕ КЛЕЩИ

| COD.  | L (mm) | g   |
|-------|--------|-----|
| 71731 | 200    | 250 |



■ ALICATES CIRCLIPS / CIRCLIPS PLIERS / PINCES CIRCLIPS / ZANGEN FÜR SICHERUNGSRINGE / PINZE PER ANELLI / ALICATES FREIOS / СЪЕМНИК КОЛЕЦ

| COD.  | L (mm) | O.D. mm | g   |
|-------|--------|---------|-----|
| 72082 | 180    | 19-60   | 100 |



■ ALICATES PARA TERMINALES / CRIMPING PLIERS / PINCES À SERTIR LES COSSES / KABELKLEMMZANGE / PINZA PER CAPICORDA / ALICATE PARA CRAVAR TERMINAIS / ОБЖИМНЫЕ КЛЕЩИ

| COD.  | L (mm) | g   |
|-------|--------|-----|
| 71652 | 200    | 120 |



■ TENAZAS / PINCERS / TENAILLES / ZANGE / TENAGLIE / ALICATES / КЛЕЩИ

■ PICO DE LORO / GROOVE JOINT / MULTIPRISE À CRÉMAILLÈRE / WASSERPUMPENZANGE / PINZE REGOLABILI / BICO DE PAPAGAIO / КЛЕЩИ ЖЕЛОБКОВОГО ТИПА

| COD.  | L (mm) | g   |
|-------|--------|-----|
| 72532 | 250    | 250 |
| 72533 | 370    | 550 |



■ **LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ**

■ **LLAVE COMBINADA DE CARRACA / COMBINATION RATCHET WRENCH / CLÉ MIXTE À CLIQUET / RATSCHEN-RINGGABELSCHLÜSSEL / CHIAVE COMBINATA A CRICCO / CHAVE DE BOCA E LUNETAS COM ROQUETE / КЛЮЧ ТРЕЩЕТОЧНЫЙ КОМБИНИРОВАННЫЙ**

| COD.  | AF mm | g  |
|-------|-------|----|
| 74820 | 8     | 20 |
| 74822 | 10    | 28 |
| 74824 | 12    | 32 |
| 74825 | 13    | 46 |
| 74826 | 14    | 55 |
| 74829 | 17    | 90 |



■ **LLAVES FIJAS / OPEN-END WRENCHES / CLÉS À FOURCHE / GABELSCHLUSSEL / CHIAVI FISSE / CHAVES DUAS BOCAS / РОЖКОВЫЕ КЛЮЧИ**

■ **MM**

| COD.  | AF mm | g   |
|-------|-------|-----|
| 71967 | 5-5,5 |     |
| 71660 | 6-7   |     |
| 71968 | 8-9   | 20  |
| 71661 | 8-10  |     |
| 71825 | 10-11 |     |
| 71662 | 10-12 | 30  |
| 71824 | 12-13 | 40  |
| 71663 | 12-14 | 50  |
| 71890 | 14-15 | 70  |
| 71664 | 14-17 |     |
| 71826 | 16-17 | 100 |
| 71665 | 17-19 |     |
| 71827 | 18-19 |     |
| 71666 | 19-22 |     |
| 71973 | 20-22 | 150 |
| 71974 | 21-23 |     |
| 71667 | 22-24 |     |
| 71975 | 24-27 | 250 |
| 71976 | 25-28 |     |
| 71977 | 30-32 | 300 |



■ **INCH**

| COD.  | AF inch      | g   |
|-------|--------------|-----|
| 71891 | 1/4-5/16     |     |
| 71892 | 5/16-3/8     | 20  |
| 71893 | 3/8-7/16     | 30  |
| 71894 | 1/2-9/16     | 50  |
| 71895 | 9/16-5/8     |     |
| 71896 | 19/32-11/16  |     |
| 71897 | 5/8-11/16    | 100 |
| 71898 | 11/16-3/4    |     |
| 71899 | 3/4-25/32    |     |
| 71900 | 3/4-7/8      | 150 |
| 71901 | 13/16-7/8    |     |
| 71902 | 15/16-1      | 200 |
| 71903 | 1-1.1/8      |     |
| 71904 | 1.1/16-1.1/8 | 250 |
| 71905 | 1.1/16-1.1/4 | 300 |





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ANTI-MAGNÉTICA DE TITANIO  
NON-MAGNETIC TITANIUM  
AMAGNETIQUE EN TITANE  
TITAN NICHT MAGNETISCH  
ANTIMAGNETICO AL TITANIO  
ANTI-MAGNÉTICO DE TITÂNIO  
НЕМАГНИТНЫЙ ТИТАНОВЫЙ



■ LLAVES COMBINADAS / COMBINATION WRENCHES / CLÉS MIXTES / GABELSCHLUSSEL / CHIAVI FISSE / CHAVES DUAS BOCAS / КОМБИНИРОВАННЫЕ КЛЮЧИ

■ MM

| COD.  | AF mm | g    |
|-------|-------|------|
| 74311 | 3     |      |
| 74312 | 4     | 15   |
| 74313 | 5     |      |
| 71978 | 6     | 20   |
| 71668 | 7     |      |
| 71669 | 8     | 30   |
| 71670 | 9     |      |
| 71671 | 10    |      |
| 71672 | 11    | 40   |
| 71673 | 12    |      |
| 71674 | 13    |      |
| 71675 | 14    | 50   |
| 71676 | 15    |      |
| 71677 | 17    | 100  |
| 71979 | 18    | 125  |
| 71678 | 19    | 150  |
| 71679 | 22    | 200  |
| 71680 | 24    | 250  |
| 71980 | 25    | 270  |
| 71981 | 26    | 300  |
| 71982 | 27    |      |
| 71983 | 28    | 350  |
| 71984 | 29    | 400  |
| 71681 | 30    | 410  |
| 71985 | 32    | 450  |
| 71986 | 36    | 500  |
| 71987 | 41    | 750  |
| 71988 | 46    | 1050 |



■ INCH

| COD.  | AF inch | g  |
|-------|---------|----|
| 71828 | 7/32    |    |
| 71829 | 15/64   | 15 |
| 71832 | 1/4     | 20 |
| 71830 | 5/16    | 30 |
| 71831 | 7/16    | 40 |
| 71833 | 1/2     | 50 |



■ LLAVES ACODADAS / DOUBLE OFFSET RING WRENCHES / CLÉS POLYGALES CONTRE-COUDÉES / RINGSCHLUSSEL / CHIAVI POLIGONALI / CHAVES LUNETA / КЛЮЧИ ДВОЙНАЯ ИЗОГНУТАЯ ЗВЕЗДОЧКА

■ MM

| COD.  | AF mm | g  |
|-------|-------|----|
| 71989 | 5-5,5 | 20 |
| 71682 | 6-7   |    |
| 71990 | 6-8   |    |
| 71991 | 8-9   |    |
| 71683 | 8-10  | 30 |
| 71992 | 9-11  |    |
| 71993 | 10-11 |    |
| 71684 | 10-12 |    |
| 71994 | 11-13 | 40 |
| 71995 | 12-13 | 45 |
| 71685 | 12-14 | 50 |
| 71996 | 13-15 | 70 |
| 71997 | 14-15 | 80 |



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**ANTI-MAGNÉTICA DE TITANIO**  
**NON-MAGNETIC TITANIUM**  
**AMAGNETIQUE EN TITANE**  
**TITAN NICHT MAGNETISCH**  
**ANTIMAGNETICO AL TITANIO**  
**ANTI-MAGNÉTICO DE TITÂNIO**  
**НЕМАГНИТНЫЙ ТИТАНОВЫЙ**



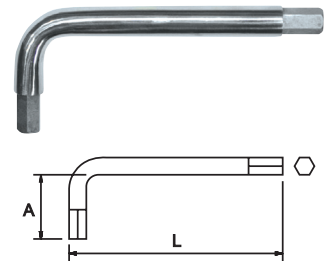
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|-------|-------|-----|
| 71998 | 14-16 | 90  |
| 71686 | 14-17 |     |
| 71687 | 17-19 | 100 |
| 71999 | 18-19 |     |
| 72000 | 18-20 | 125 |
| 71688 | 19-22 |     |
| 72001 | 20-22 | 150 |
| 72002 | 21-23 | 200 |
| 71689 | 22-24 | 250 |
| 72003 | 24-27 | 300 |
| 72004 | 25-28 | 350 |
| 72005 | 26-29 | 370 |
| 72006 | 27-30 | 400 |
| 72007 | 30-32 | 450 |
| 72008 | 28-36 | 470 |
| 72009 | 32-36 | 500 |
| 72010 | 41-46 | 600 |

■ **LLAVES HEXAGONALES / HEXAGONAL KEYS / CLÉS MÂLES / INBUSSCHLÜSSEL / CHIAVI ESAGONALI / CHAVES HEXAGONAIS / ШЕСТИГРАННИК**

■ **STANDARD**

■ **MM**

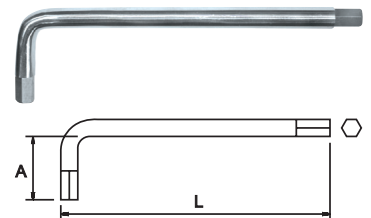
| COD.  | AF mm | L (mm) | A (mm) | g   |
|-------|-------|--------|--------|-----|
| 71963 | 1,5   | 45     | 14     | 5   |
| 71964 | 2     | 48     | 16     |     |
| 71965 | 2,5   | 55     | 18     | 10  |
| 71966 | 3     | 60     | 20     |     |
| 72043 | 3,5   | 65     | 23     | 15  |
| 71712 | 4     | 70     | 25     |     |
| 71713 | 5     | 80     | 28     | 20  |
| 71714 | 6     | 90     | 32     | 50  |
| 71972 | 7     | 95     | 34     | 70  |
| 71715 | 8     | 100    | 36     | 90  |
| 72044 | 9     | 105    | 38     | 110 |
| 71716 | 10    | 110    | 40     | 130 |
| 72045 | 11    | 120    | 42     | 150 |
| 72046 | 12    | 125    | 45     | 180 |
| 72047 | 14    | 140    | 55     | 210 |
| 72048 | 17    | 160    | 65     | 250 |



■ **SERIE LARGA / LONG SERIE / SÉRIE LONGUE / LANGE FORM / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ**

■ **MM**

| COD.  | AF mm | L (mm) | A (mm) | g   |
|-------|-------|--------|--------|-----|
| 72049 | 1,5   | 90     | 14     | 10  |
| 72050 | 2     | 100    | 16     |     |
| 72051 | 3     | 110    | 20     | 15  |
| 72052 | 3,5   | 115    | 23     | 25  |
| 72053 | 4     | 120    | 25     |     |
| 72054 | 5     | 130    | 28     | 30  |
| 72055 | 6     | 145    | 32     | 55  |
| 72056 | 7     | 155    | 34     | 90  |
| 72057 | 8     | 160    | 36     | 120 |
| 72058 | 9     | 175    | 38     | 130 |
| 72059 | 10    | 180    | 40     | 160 |

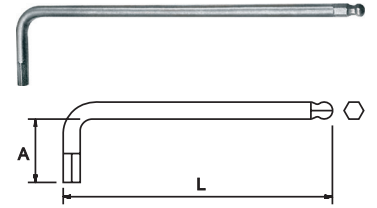


LLAVES HEXAGONALES DE BOLA / BALLPOINT HEXAGONAL KEYS / CLÉS MÂLES À TÊTE SPHÉRIQUE / KUGELKOPF INBUSSCHLÜSSEL / CHIAVI ESAGONALI CON TESTA SFERICA / CHAVES HEXAGONAIS ESFERICAS / ШЕСТИГРАННЫЕ КЛЮЧИ С ШАРОВОЙ ГОЛОВКОЙ

SERIE LARGA / LONG SERIE / SÉRIE LONGUE / LANGE FORM / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

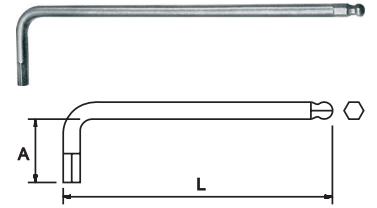
MM

| COD.  | AF mm | L (mm) | A (mm) | g   |
|-------|-------|--------|--------|-----|
| 72060 | 1,5   | 90     | 14     | 5   |
| 72061 | 2     | 100    | 16     | 10  |
| 72062 | 2,5   | 110    | 18     | 15  |
| 72063 | 3     | 125    | 20     | 20  |
| 71717 | 4     | 140    | 25     | 30  |
| 71718 | 5     | 155    | 28     | 50  |
| 72064 | 5,5   | 175    | 32     | 70  |
| 71719 | 6     | 190    | 34     | 90  |
| 72065 | 7     | 200    | 36     | 110 |
| 71720 | 8     | 210    | 38     | 130 |
| 72066 | 9     | 230    | 40     | 150 |
| 71721 | 10    | 240    | 42     | 180 |
| 72067 | 11    | 260    | 45     | 210 |
| 72068 | 12    | 280    | 55     | 250 |
| 72069 | 14    | 300    | 65     |     |
| 72070 | 17    |        |        |     |



INCH

| COD.  | AF inch | L (mm) | A (mm) | g   |
|-------|---------|--------|--------|-----|
| 71838 | 1/16    | 90     | 14     | 5   |
| 71839 | 5/64    | 100    | 16     | 10  |
| 71840 | 3/32    | 110    | 18     | 15  |
| 71841 | 1/8     | 125    | 20     | 20  |
| 71842 | 5/32    | 140    | 25     | 30  |
| 71843 | 3/16    | 155    | 28     | 50  |
| 71844 | 7/32    | 175    | 32     | 70  |
| 71845 | 1/4     | 190    | 34     | 90  |
| 71846 | 5/16    | 200    | 36     | 110 |
| 71847 | 3/8     | 210    | 38     | 120 |



LLAVE ALLEN CON MANGO EN "T" / ALLEN KEY WITH "T" HANDLE / CLÉ HEXAGONALE EMMANCHÉE EN T / INBUSSCHLÜSSEL MIT T-GRIFF / CHIAVE A T ESAGONALE CON IMPUGNATURA IN PLASTICA / CHAVES MACHO SEXTAVADO COM CABO EM T / КЛЮЧ АЛЕН С РУЧКОЙ «Т»

| COD.  | AF mm | T mm | T mm | g  |
|-------|-------|------|------|----|
| 72503 | 3     |      | 155  | 65 |
| 72504 | 4     | 43   |      |    |
| 72505 | 5     |      |      |    |
| 72506 | 6     |      |      |    |
| 72507 | 8     | 55   | 165  | 75 |
| 72508 | 10    |      |      |    |



LLAVE AJUSTABLE / ADJUSTABLE WRENCH / CLÉ À MOLETTE / ROLLGABELSCHÜSSEL / CHIAVE REGOLABILI A RULLINO / CHAVE AJUSTAVEL / РАЗВОДНЫЕ КЛЮЧИ

| COD.  | L (inch) | L (mm) | CAP. (mm) | g   |
|-------|----------|--------|-----------|-----|
| 71654 | 6        | 150    | 19        | 70  |
| 71655 | 8        | 200    | 25        | 110 |
| 71656 | 10       | 250    | 30        | 220 |
| 79448 | 12       | 300    | 34        | 400 |



LLAVE DINAMOMÉTRICA / TORQUE WRENCH / CLÉ DYNAMOMETRIQUE / DREHMOMENTSCHLÜSSEL / CHIAVE DINAMOMETRICA / CHAVE DINAMOMETRICA / РЕВЕРСИВНЫЕ ДИНАМОМЕТРИЧЕСКИЕ КЛЮЧИ

| COD.  | AF inch | L (mm) | N.m      | g    |
|-------|---------|--------|----------|------|
| 79440 | 3/8     | 360    | 5-50     | 420  |
| 79441 |         | 405    | 10-100   | 480  |
| 79442 | 1/2     | 500    | 20-200   | 550  |
| 79443 |         | 595    | 50-250   | 650  |
| 79444 |         |        | 60-300   |      |
| 79445 | 3/4     | 1040   | 150-750  | 2450 |
| 79446 | 1       | 1253   | 200-1000 | 4350 |



12M

| COD.  | AF inch | L (mm) | N.m    | g   |
|-------|---------|--------|--------|-----|
| 74296 | 1/2     | 410    | 30-160 | 500 |



12M

| COD.  | AF inch | L (mm) | N.m   | g   |
|-------|---------|--------|-------|-----|
| 72540 | 3/8     | 310    | 10-15 | 400 |



12M

LLAVES DE VASO / SOCKET WRENCHES / DOUILLES / STECKSCHLUSSEL / DOPEN / CHAVES DE CAIXA / ГОЛОВКИ

1/4"

STANDARD

MM

| COD.  | AF mm | g   |
|-------|-------|-----|
| 71701 | 4     |     |
| 71702 | 5     |     |
| 71703 | 6     | 5,0 |
| 71704 | 7     |     |
| 71705 | 8     |     |
| 71706 | 9     | 10  |
| 71707 | 10    |     |
| 71708 | 11    | 15  |
| 71709 | 12    |     |
| 71710 | 13    | 20  |
| 71711 | 14    |     |



INCH

| COD.  | AF inch | g   |
|-------|---------|-----|
| 72039 | 1/8     |     |
| 72040 | 3/16    | 5,0 |
| 72041 | 1/4     |     |
| 72042 | 3/8     | 10  |



LLAVE DE CARRACA REVERSIBLE / REVERSIBLE RATCHET HANDLE / CLÉ À CLIQUET RÉVERSIBLE / UMSCHALTKNARRE / CHIAVE A CRICCO REVERSIBILE / ROQUETE REVERSIBLE / РЕВЕРСИВНАЯ ТРЕЩЕТКА

| COD.  | AF inch | L (mm) | g   |
|-------|---------|--------|-----|
| 71783 | 1/4     | 150    | 180 |



MANGO CORREDIZO EN "T" / SLIDING "T" HANDLE / POIGNÉE COULISSANTE / T-GLEITGRIFF / ASTA CON QUADRO ESCORREVOLO / CABO "T" CORREDIÇO / ПОДВИЖНАЯ "T" РУЧКА

| COD.  | AF inch | L (mm) | g   |
|-------|---------|--------|-----|
| 72497 | 1/4     | 150    | 150 |



# 40

**ANTI-MAGNÉTICA DE TITANIO**  
**NON-MAGNETIC TITANIUM**  
**AMAGNETIQUE EN TITANE**  
**TITAN NICHT MAGNETISCH**  
**ANTIMAGNETICO AL TITANIO**  
**ANTI-MAGNÉTICO DE TITÂNIO**  
**НЕМАГНИТНЫЙ ТИТАНОВЫЙ**



■ 1/4"

■ ALARGADERA / EXTENSION / RALLONGE / VERLÄNGERUNG / PROLUNGA / EXTENÇÃO / УДЛИНИТЕЛЬ

| COD.  | AF inch | L (mm) | g   |
|-------|---------|--------|-----|
| 72494 | 1/4     | 100    | 150 |
| 72495 | 1/4     | 150    | 200 |



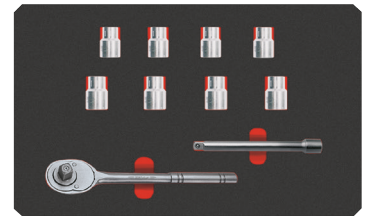
■ JUEGOS LLAVES DE VASO / SOCKET WRENCHES SETS / SETS DOUILLES / WERKZEUGSÄTZE FÜR STECKSCHLÜSSEL / KIT BUSSOLE DOPPEN / JOGOS CHAVES DE CAIXA / НАБОР ГОЛОВКИ

■ 10 PCS.

| COD.  | AF inch | PCS. | g     |
|-------|---------|------|-------|
| 79083 | 1/4     | 10   | 51079 |



| PCS. | COD.  | PCS. | Descripción / Description / Description | MAT.               |              |
|------|-------|------|-----------------------------------------|--------------------|--------------|
| 1    | 71701 |      | 1/4", 4 mm                              | Titanio / Titanium |              |
|      | 71702 |      | 1/4", 5 mm                              |                    |              |
|      | 71703 |      | 1/4", 6 mm                              |                    |              |
|      | 71704 |      | 1/4", 7 mm                              |                    |              |
|      | 71705 |      | 1/4", 8 mm                              |                    |              |
|      | 71707 |      | 1/4", 10 mm                             |                    |              |
|      | 71708 |      | 1/4", 11 mm                             |                    |              |
|      | 71710 |      | 1/4", 13 mm                             |                    |              |
|      | 72494 |      | Alargadera / Extension                  |                    | 1/4", 100 mm |
|      | 71783 |      | Llave de carraca / Ratchet handle       |                    | 1/4"         |



■ 3/8"

■ STANDARD

■ MM

| COD.  | AF mm | g  |
|-------|-------|----|
| 72011 | 4     | 15 |
| 72012 | 5     |    |
| 72013 | 6     |    |
| 72014 | 7     |    |
| 72015 | 8     |    |
| 72016 | 9     | 25 |
| 71691 | 10    |    |
| 71692 | 11    |    |
| 71693 | 12    |    |
| 71694 | 13    |    |
| 71695 | 14    | 35 |
| 71696 | 15    |    |
| 71697 | 16    |    |
| 71698 | 17    |    |
| 71699 | 18    |    |
| 71700 | 19    | 60 |
|       |       |    |



■ INCH

| COD.  | AF inch | g  |
|-------|---------|----|
| 72017 | 5/16    | 25 |
| 72018 | 3/8     |    |
| 72019 | 7/16    |    |
| 72020 | 1/2     |    |
| 72021 | 9/16    |    |
| 72022 | 5/8     | 40 |
| 72023 | 11/16   |    |
| 72024 | 1.1/16  |    |
| 72025 | 1.1/4   |    |
|       |         |    |



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ANTI-MAGNÉTICA DE TITANIO  
NON-MAGNETIC TITANIUM  
AMAGNETIQUE EN TITANE  
TITAN NICHT MAGNETISCH  
ANTIMAGNETICO AL TITANIO  
ANTI-MAGNÉTICO DE TITÂNIO  
НЕМАГНИТНЫЙ ТИТАНОВЫЙ



Management System  
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3/8"

SERIE LARGA / LONG SOCKET / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

| COD.  | AF mm | g  |
|-------|-------|----|
| 72026 | 6     |    |
| 72027 | 7     |    |
| 72028 | 8     |    |
| 72029 | 9     |    |
| 72030 | 10    |    |
| 72031 | 11    |    |
| 72032 | 12    | 35 |
| 72033 | 13    |    |
| 72034 | 14    | 60 |
| 72035 | 15    | 70 |
| 72036 | 16    | 75 |
| 72037 | 17    |    |
| 72038 | 18    | 90 |



LLAVE DE CARRACA REVERSIBLE / REVERSIBLE RATCHET HANDLE / CLÉ À CLIQUET RÉVERSIBLE / UMSCHALTKNARRE / CHIAVE A CRICCO REVERSIBILE / ROQUETE REVERSIBILE / РЕВЕРСИВНАЯ ТРЕЩЕТКА

| COD.  | AF inch | L (mm) | g   |
|-------|---------|--------|-----|
| 71784 | 3/8     | 180    | 230 |



MANGO CORREDIZO EN "T" / SLIDING "T" HANDLE / POIGNÉE COULISSANTE / T-GLEITGRIFF / ASTA CON QUADRO ESCORREVOLO / CABO "T" CORREDIÇO / ПОДВИЖНАЯ "Т" РУЧКА

| COD.  | AF inch | L (mm) | g   |
|-------|---------|--------|-----|
| 72498 | 3/8     | 250    | 250 |



ALARGADERA / EXTENSION / RALLONGE / VERLÄNGERUNG / PROLUNGA / EXTENÇÃO / УДЛИНИТЕЛЬ

| COD.  | AF inch | L (mm) | g   |
|-------|---------|--------|-----|
| 72491 | 3/8     | 100    | 150 |
| 72492 | 3/8     | 200    | 250 |



ARTICULACIÓN UNIVERSAL / UNIVERSAL JOINT / CARDAN UNIVERSEL / KARDANGELNKE / SNODO CARDANICO / CARDAN UNIVERSAL / ШАРНИР

| COD.  | AF inch | g   |
|-------|---------|-----|
| 72500 | 3/8     | 100 |



BERBIQUÍ / SPEEDER HANDLE / VILEBREQUIN / KURBEL / LEVA GIROBECCHINO / MANIVELA / КОЛЕНЧАТАЯ РУЧКА

| COD.  | AF inch | L (mm) | g   |
|-------|---------|--------|-----|
| 72496 | 3/8     | 400    | 300 |



MANGO ARTICULADO / SWIVEL HANDLE / MANCHE ARTICULÉ / GELENKGRIF / MANICO ARTICOLATO / CABO ARTICULADO / ГИБКАЯ РУКОЯТКА

| COD.  | AF inch | g   |
|-------|---------|-----|
| 72502 | 3/8     | 300 |



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ANTI-MAGNÉTICA DE TITANIO  
NON-MAGNETIC TITANIUM  
AMAGNETIQUE EN TITANE  
TITAN NICHT MAGNETISCH  
ANTIMAGNETICO AL TITANIO  
ANTI-MAGNÉTICO DE TITÂNIO  
НЕМАГНИТНЫЙ ТИТАНОВЫЙ



3/8"

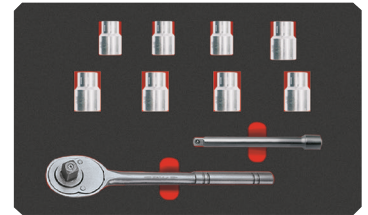
JUEGOS LLAVES DE VASO / SOCKET WRENCHES SETS / SETS DOUILLES / WERKZEUGSÄTZE FÜR STECKSCHLÜSSEL / KIT BUSSOLE DOPPEN / JOGOS CHAVES DE CAIXA / НАБОР ГОЛОВКИ

10 PCS.

| COD.  | AF inch | PCS. |       | Kg  |
|-------|---------|------|-------|-----|
| 79084 | 3/8     | 10   | 51079 | 1,1 |

| PCS. | COD.  | PCS. | Descripción / Description / Description | MAT.               |              |
|------|-------|------|-----------------------------------------|--------------------|--------------|
| 1    | 72013 |      | 3/8", 6 mm                              | Titanio / Titanium |              |
|      | 72014 |      | 3/8", 7 mm                              |                    |              |
|      | 72015 |      | 3/8", 8 mm                              |                    |              |
|      | 71691 |      | 3/8", 10 mm                             |                    |              |
|      | 71692 |      | 3/8", 11 mm                             |                    |              |
|      | 71694 |      | 3/8", 13 mm                             |                    |              |
|      | 71698 |      | 3/8", 17 mm                             |                    |              |
|      | 71700 |      | 3/8", 19 mm                             |                    |              |
|      | 72491 |      | Alargadera / Extension                  |                    | 3/8", 100 mm |
|      | 71784 |      | Llave de carraca / Ratchet handle       |                    | 3/8"         |



1/2"

STANDARD

MM

| COD.  | AF mm | g   |
|-------|-------|-----|
| 71850 | 7     |     |
| 71851 | 8     | 25  |
| 71852 | 9     |     |
| 71853 | 10    |     |
| 71854 | 11    |     |
| 71855 | 12    | 30  |
| 71856 | 13    |     |
| 71857 | 14    |     |
| 71858 | 15    |     |
| 71859 | 16    | 35  |
| 71860 | 17    |     |
| 71861 | 18    |     |
| 71862 | 19    | 40  |
| 71863 | 20    |     |
| 71864 | 21    | 45  |
| 71865 | 22    | 50  |
| 71866 | 23    | 55  |
| 71867 | 24    |     |
| 71868 | 25    | 60  |
| 71869 | 26    |     |
| 71870 | 27    | 65  |
| 71871 | 28    | 80  |
| 71872 | 29    | 90  |
| 71873 | 30    | 100 |
| 71874 | 31    | 105 |
| 71875 | 32    | 120 |



INCH

| COD.  | AF inch | g  |
|-------|---------|----|
| 71876 | 1/4     |    |
| 71877 | 7/16    | 25 |
| 71878 | 1/2     | 30 |
| 71879 | 9/16    |    |
| 71880 | 5/8     | 35 |
| 71881 | 11/16   |    |
| 71882 | 3/4     | 40 |
| 71883 | 13/16   |    |
| 71884 | 7/8     | 50 |
| 71885 | 15/16   | 55 |
| 71886 | 1       | 60 |
| 71887 | 1.1/16  | 70 |
| 71888 | 1.1/8   | 90 |



LLAVE DE CARRACA REVERSIBLE / REVERSIBLE RATCHET HANDLE / CLÉ À CLIQUET RÉVERSIBLE / UMSCHALTKNARRE / CHIAVE A CRICCO REVERSIBILE / ROQUETE REVERSIBILE / РЕВЕРСИВНАЯ ТРЕЩЕТКА

| COD.  | AF inch | L (mm) | g   |
|-------|---------|--------|-----|
| 71785 | 1/2     | 220    | 300 |



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ANTI-MAGNÉTICA DE TITANIO  
NON-MAGNETIC TITANIUM  
AMAGNETIQUE EN TITANE  
TITAN NICHT MAGNETISCH  
ANTIMAGNETICO AL TITANIO  
ANTI-MAGNÉTICO DE TITÂNIO  
НЕМАГНИТНЫЙ ТИТАНОВЫЙ



1/2"

MANGO CORREDIZO EN "T" / SLIDING "T" HANDLE / POIGNÉE COULISSANTE / T-GLEITGRIFF / ASTA CON QUADRO ESCORREVOLO / CABO "T" CORREDIÇO / ПОДВИЖНАЯ "Т" РУЧКА

| COD.  | AF inch | L (mm) | g   |
|-------|---------|--------|-----|
| 72499 | 1/2     | 250    | 250 |



ALARGADERA / EXTENSION / RALLONGE / VERLÄNGERUNG / PROLUNGA / EXTENÇÃO / УДЛИНИТЕЛЬ

| COD.  | AF inch | L (mm) | g   |
|-------|---------|--------|-----|
| 72493 | 1/2     | 100    | 150 |



ARTICULACIÓN UNIVERSAL / UNIVERSAL JOINT / CARDAN UNIVERSEL / KARDANGELNK / SNODO CARDANICO / CARDAN UNIVERSAL / ШАРНИР

| COD.  | AF inch | g   |
|-------|---------|-----|
| 72501 | 1/2     | 150 |



JUEGOS LLAVES DE VASO / SOCKET WRENCHES SETS / SETS DOUILLES / WERKZEUGSÄTZE FÜR STECKSCHLÜSSEL / KIT BUSSOLE DOPPEN / JOGOS CHAVES DE CAIXA / НАБОР ГОЛОВКИ

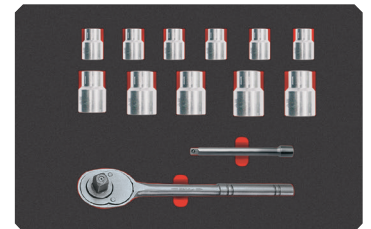
13 PCS.

| COD.  | AF inch | PCS. | 51053 | Kg  |
|-------|---------|------|-------|-----|
| 79085 | 1/2     | 13   | 51053 | 2,1 |



| PCS. | COD. PCS. | Descripción / Description / Description | MAT.                              |              |
|------|-----------|-----------------------------------------|-----------------------------------|--------------|
| 1    | 71851     | Llaves de vaso / Socket wrenches        | 1/2", 8 mm                        |              |
|      | 71853     |                                         | 1/2", 10 mm                       |              |
|      | 71584     |                                         | 1/2", 11 mm                       |              |
|      | 71856     |                                         | 1/2", 13 mm                       |              |
|      | 71860     |                                         | 1/2", 17 mm                       |              |
|      | 71862     |                                         | 1/2", 19 mm                       |              |
|      | 71865     |                                         | 1/2", 22 mm                       |              |
|      | 71867     |                                         | 1/2", 24 mm                       |              |
|      | 71870     |                                         | 1/2", 27 mm                       |              |
|      | 71873     |                                         | 1/2", 30 mm                       |              |
|      | 71875     |                                         | 1/2", 32 mm                       |              |
|      | 72493     |                                         | Alargadera / Extension            | 1/2", 100 mm |
|      | 71785     |                                         | Llave de carraca / Ratchet handle | 1/2"         |

Titanio / Titanium



DESTORNILLADORES / SCREWDRIVERS / TOURNEVIS / HANDSCHRAUBER / CACCIAVITI / CHAVES DE FENDA / ОТВЕРТКИ

ELECTRICISTA / ELECTRICIAN / ELECTRICIEN / ELEKTRIKER / PER ELETTRICISTI / ELETRICISTA / ЭЛЕКТРИЧЕСКАЯ

| COD.  | mm  | mm | mm  | g   |
|-------|-----|----|-----|-----|
| 72071 | 50  |    |     | 50  |
| 71971 | 100 | 3  |     | 60  |
| 71969 | 150 |    | 75  | 65  |
| 71722 | 100 | 4  |     | 70  |
| 72072 | 150 |    |     | 75  |
| 72073 | 100 | 5  |     | 80  |
| 71723 | 150 |    | 90  | 90  |
| 72074 | 100 | 6  |     | 100 |
| 72075 | 125 |    | 100 | 80  |
| 71970 | 150 | 8  |     | 90  |
| 71724 | 200 |    | 115 | 100 |
| 71725 | 300 | 10 |     |     |








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**ANTI-MAGNÉTICA DE TITANIO**  
**NON-MAGNETIC TITANIUM**  
**AMAGNETIQUE EN TITANE**  
**TITAN NICHT MAGNETISCH**  
**ANTIMAGNETICO AL TITANIO**  
**ANTI-MAGNÉTICO DE TITÂNIO**  
**НЕМАГНИТНЫЙ ТИТАНОВЫЙ**







| COD.  |  |  |  |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 72193 | 50                                                                                |                                                                                   | 50                                                                                 |
| 72194 | 100                                                                               | 3                                                                                 |                                                                                    |
| 72195 | 150                                                                               |                                                                                   | 60                                                                                 |
| 72196 | 100                                                                               | 4                                                                                 |                                                                                    |
| 72197 | 150                                                                               |                                                                                   | 70                                                                                 |
| 72198 | 100                                                                               | 5                                                                                 |                                                                                    |
| 72199 | 150                                                                               |                                                                                   | 75                                                                                 |
| 72200 | 100                                                                               | 6                                                                                 |                                                                                    |
| 72201 | 125                                                                               |                                                                                   | 90                                                                                 |
| 72202 | 150                                                                               | 8                                                                                 |                                                                                    |
| 72203 | 200                                                                               |                                                                                   | 100                                                                                |
| 72204 | 300                                                                               | 10                                                                                | 120                                                                                |






#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Todo titanio / All titanium / Tout titane

#### PHILLIPS®\*

| COD.  |  |  |  |  |
|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 71726 | PH-0                                                                              | 75                                                                                | 75                                                                                | 50                                                                                 |
| 71727 | PH-1                                                                              | 100                                                                               | 90                                                                                | 55                                                                                 |
| 71728 | PH-2                                                                              | 150                                                                               | 110                                                                               | 70                                                                                 |
| 71729 | PH-3                                                                              | 200                                                                               |                                                                                   | 80                                                                                 |
| 71730 | PH-4                                                                              | 250                                                                               | 115                                                                               | 100                                                                                |





| COD.  |  |  |  |
|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 72205 | PH-0                                                                                | 75                                                                                  | 40                                                                                   |
| 72206 | PH-1                                                                                | 100                                                                                 | 50                                                                                   |
| 72207 | PH-2                                                                                | 150                                                                                 | 70                                                                                   |
| 72208 | PH-3                                                                                | 200                                                                                 | 80                                                                                   |
| 72209 | PH-4                                                                                | 250                                                                                 | 100                                                                                  |



#### CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Todo titanio / All titanium / Tout titane

#### DESTORNILLADOR ACODADO / OFFSET SCREWDRIVER / TOURNEVIS CONTRE COUDÉ / WINKELSCHRAUBENDREHER / CACCIAVITE A SQUADRA / CHAVE DE PARAFUSOS ANGULAR / КОЛЕНЧАТАЯ ОТВЕРТКА



| COD.  | L (mm) |  |  |
|-------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 72528 | 100    | 4 x 0,8                                                                             | 10                                                                                  |
| 72529 | 150    | 6 x 1                                                                               | 25                                                                                  |
| 72530 | 250    | 10 x 1,5                                                                            | 90                                                                                  |



#### PUNTAS ATORNILLADORAS CON VASO / SOCKET BITS / EMBOUTS DE VISSAGE AVEC DOUILLE / STECKSCHÜSSELEINSATZ / INSERTI A BUSSOLA / PONTAS APARAFUSADORAS COM CAIXA / ГОЛОВКИ-БИТЫ

1/2"

#### HEXAGONAL / HEXAGONAL / HEXAGONALE / HEXAGONAL / ESAGONALE / HEXAGONAL / ШЕСТИГРАННАЯ

| COD.  |  | L (mm) |  |
|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|
| 74351 | 5                                                                                   |        |                                                                                     |
| 79810 | 6                                                                                   |        |                                                                                     |
| 79811 | 8                                                                                   | 50     | 46                                                                                  |
| 79812 | 10                                                                                  |        |                                                                                     |



\*Para tornillos PHILLIPS® (Marca registrada por Phillips Screw Company) / \*For screws PHILLIPS® (Phillips Screw Company registered trademark) / \*Pour vis PHILLIPS® (Marque enregistrée par Phillips Screw Company)


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**EGA Master**  
 ART IN INNOVATION

1285


■ MISCELÁNEA / MISCELLANEOUS / DIVERS / VERSCHIEDENE / MISCELLANEA / MISTURA / РАЗНОЕ

■ RAYADOR / MARKING TOOL / POINTE À TRACER / MARKIERWERKEUG / ATREZZO PER MARCARE / RISCADOR / МАРКИРОВОЧНЫЙ ИНСТРУМЕНТ

| COD.  | L (mm) |  |
|-------|--------|-----------------------------------------------------------------------------------|
| 72531 | 200    | 12                                                                                |




■ BARRA PATA DE GALLO / CROW BAR / PINCE À LEVIER / BRECHSTANGE / BARRA A ZAMPA DI GALLO / PÉ DE CABRA / МОНТИРОВКА

| COD.  | L (inch) |  |
|-------|----------|-----------------------------------------------------------------------------------|
| 72537 | 18       | 370                                                                               |




■ BARRA DE DESENCOFRAR / WRECKING BAR / PINCE MONSIEUR / BRECHEISEN / APRICASSE CON LEVA CHIODI / PE DE CABRA / КРЮК

| COD.  | L (inch) |  |
|-------|----------|-----------------------------------------------------------------------------------|
| 72538 | 18       | 750                                                                               |




■ PINZAS / TWEEZERS / BRUCELLES / GREIFPINZETTEN / PINZETTE DI PRECISIONES / PINÇAS / ПИНЦЕТЫ

| COD.  | L (mm) |  |
|-------|--------|-----------------------------------------------------------------------------------|
| 71657 | 155    | 30                                                                                |




| COD.  | L (mm) |  |
|-------|--------|-------------------------------------------------------------------------------------|
| 71658 | 155    | 30                                                                                  |



| COD.  | L (mm) |  |
|-------|--------|-------------------------------------------------------------------------------------|
| 71659 | 155    | 30                                                                                  |



■ BOTADOR / PIN PUNCH / CHASSE-GOUPILLES / SPLINTREIBER / PUNTE / PUNÇÃO / ЦИЛИНДРИЧЕСКИЙ ПРОБОЙНИК

| COD.  | L (mm) | Ø (mm) |  |
|-------|--------|--------|-------------------------------------------------------------------------------------|
| 72077 | 110    | 2,5    | 25                                                                                  |
| 72078 |        | 3      |                                                                                     |
| 72079 |        | 4      | 35                                                                                  |
| 72080 | 120    | 5      | 45                                                                                  |
| 72081 | 130    | 6      | 55                                                                                  |




■ MARTILLO DE BOLA / BALL PEIN HAMMER / MARTEAU À BOULE / SCHLOSSER HAMMER / MARTELLO A PALLA / MARTELO DE BOLA / МОЛОТОК С ШАРОВОЙ ГОЛОВКОЙ

| COD.  |  |
|-------|-------------------------------------------------------------------------------------|
| 72083 | 450                                                                                 |



■ TIJERA / SCISSORS / CISEAUX / SCHEREN / FORBICI / TESOURA / НОЖНИЦЫ

| COD.  | L (mm) |  |
|-------|--------|-------------------------------------------------------------------------------------|
| 71889 | 225    | 180                                                                                 |



40

ANTI-MAGNÉTICA DE TITANIO  
NON-MAGNETIC TITANIUM  
AMAGNETIQUE EN TITANE  
TITAN NICHT MAGNETISCH  
ANTIMAGNETICO AL TITANIO  
ANTI-MAGNÉTICO DE TITÂNIO  
НЕМАГНИТНЫЙ ТИТАНОВЫЙ



#### ■ CUCHILLOS / KNIVES / COUTEAUX / MESSER / COLTELLI / FACAS / НОЖИ

| COD.  | L (mm) | L (mm) | g  |
|-------|--------|--------|----|
| 72509 | 225    | 100    | 75 |
| 72527 | 250    | 130    | 80 |



#### ■ CINCEL / FLAT CHISEL / COUPEAU ET BEDANE / MAURERMEISSEL / SCALPELLI PER MURATORI / ESCOPRO / ПЛОСКОЕ ЗУБИЛО

| COD.  | L x W (mm) | g   |
|-------|------------|-----|
| 72534 | 165 x 16   | 130 |
| 72535 | 125 x 22   |     |



#### ■ ESPÁTULA / SCRAPER / SPATULE / SPACHTEL / SPATOLA / ESPATULA / СКРЕБОК

| COD.  | mm | mm | g  |
|-------|----|----|----|
| 72536 | 90 | 40 | 35 |



#### ■ SET



| COD.  | PCS. |
|-------|------|
| 74392 | 7    |

| PCS. | COD.  | PCS. | Descripción / Description / Description                  |         |
|------|-------|------|----------------------------------------------------------|---------|
|      | 71648 |      | Alicate telefonista / Long nose plier                    | 180 mm  |
|      | 71650 |      | Alicate corte diagonal / Diagonal cutting plier          | 160 mm  |
|      | 71655 |      | Llave ajustable / Adjustable wrench                      | 8"      |
| 1    | 72073 |      | Destornilladores electricista / Electrician screwdrivers | 5 x 100 |
|      | 71723 |      |                                                          | 5 x 150 |
|      | 71726 |      | Destornilladores Phillips® / Phillips® screwdriver       | PH-0    |
|      | 71728 |      |                                                          | PH-2    |



■ JUEGO UNIVERSAL / UNIVERSAL SET / SET UNIVERSELLE / UNIVERSAL SET / KIT UNIVERSALE / JOGOS UNIVERSAIS / УНИВЕРСАЛЬНЫЕ НАБОРЫ

■ 25 PCS.

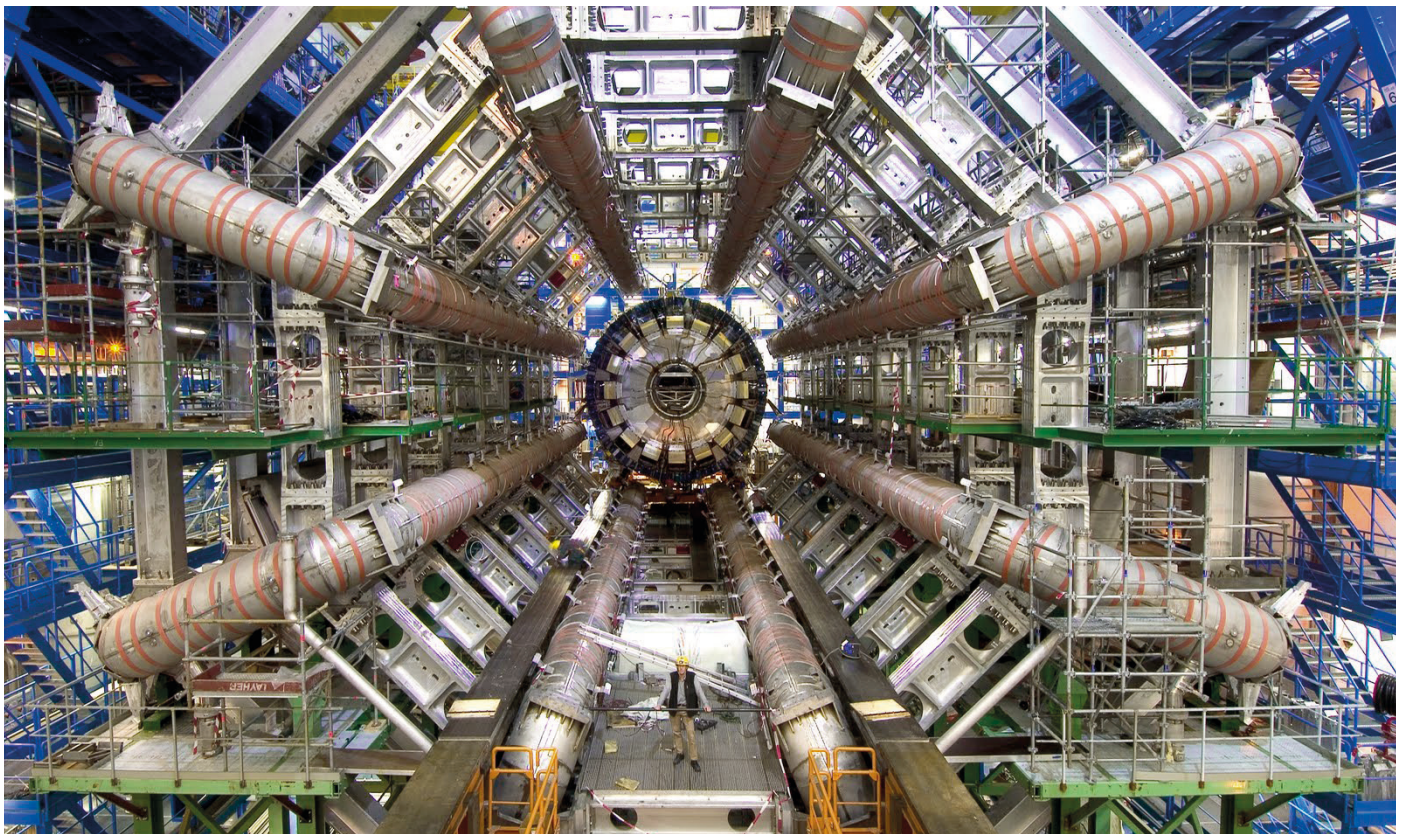
| COD.         | PCS. |  |  |
|--------------|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>79082</b> | 25   | 51056                                                                             | 4                                                                                 |

| PCS. | COD. PCS. | Descripción / Description / Description                  | MAT.       |
|------|-----------|----------------------------------------------------------|------------|
|      | 71660     |                                                          | 6-7 mm     |
|      | 71968     |                                                          | 8-9 mm     |
|      | 71825     |                                                          | 10-11 mm   |
|      | 71824     |                                                          | 12-13 mm   |
|      | 71890     |                                                          | 14-15 mm   |
|      | 71826     | Llaves fijas / Open-end wrenches                         | 16-17 mm   |
|      | 71827     |                                                          | 18-19 mm   |
|      | 71973     |                                                          | 20-22 mm   |
|      | 71975     |                                                          | 24-27 mm   |
|      | 71977     |                                                          | 30-32 mm   |
|      | 71647     | Alicata universal / Combination pliers                   | 200 mm     |
|      | 71656     | Llave ajustable / Adjustable wrench                      | 10"        |
| 1    | 71712     |                                                          | 4 mm       |
|      | 71713     |                                                          | 5 mm       |
|      | 71714     |                                                          | 6 mm       |
|      | 71972     | Llaves hexagonales / Hexagonal keys                      | 7 mm       |
|      | 71715     |                                                          | 8 mm       |
|      | 72044     |                                                          | 9 mm       |
|      | 71716     |                                                          | 10 mm      |
|      | 71971     |                                                          | 3 x 100 mm |
|      | 71722     | Destornilladores electricista / Electrician screwdrivers | 4 x 100 mm |
|      | 72073     |                                                          | 5 x 100 mm |
|      | 72075     |                                                          | 6 x 125 mm |
|      | 71727     | Destornilladores Phillips® / Phillips® screwdriver       | PH1        |
|      | 71728     |                                                          | PH2        |



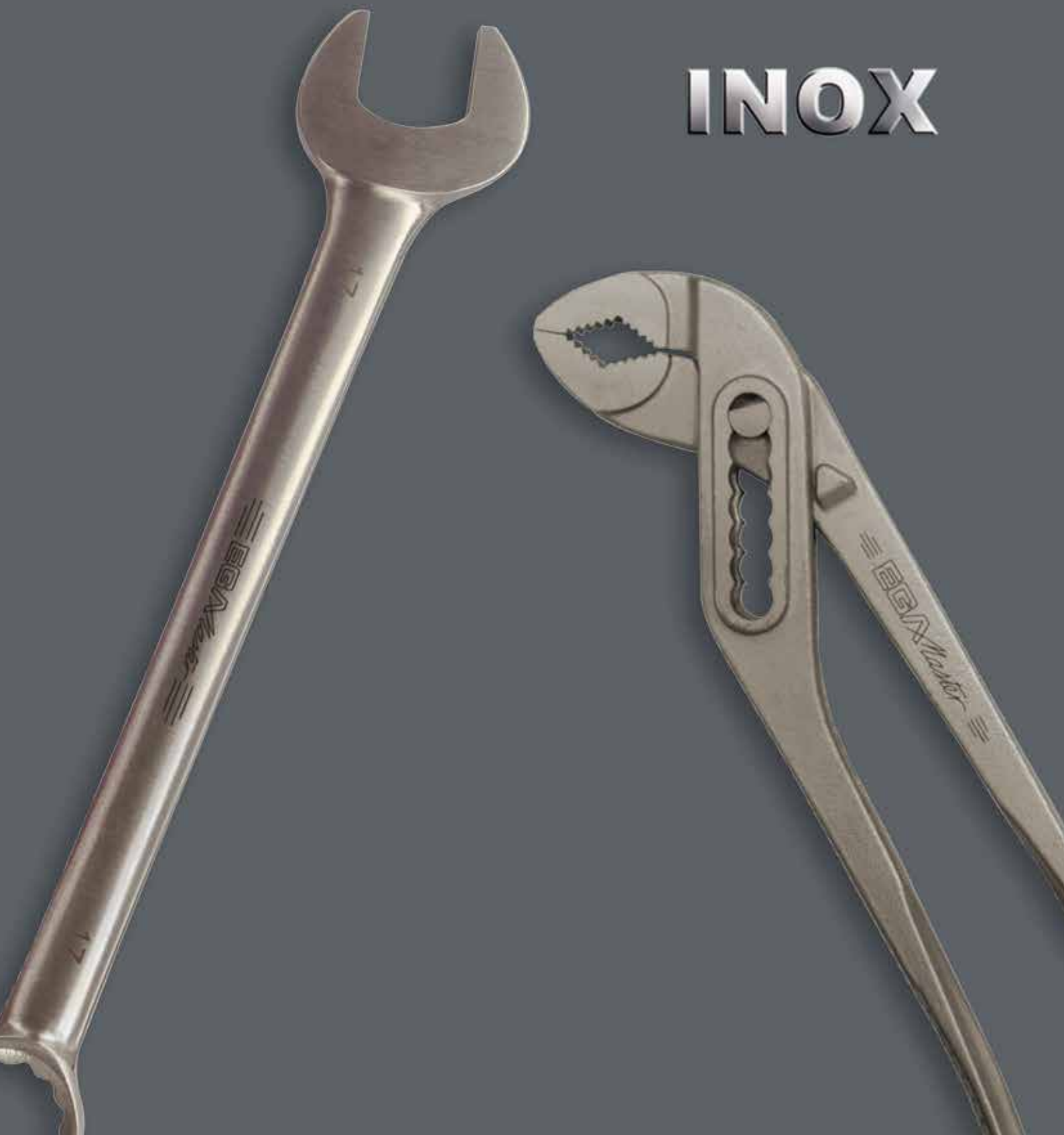
Titanio / Titanium



41

HERRAMIENTA INOX  
INOX (STAINLESS STEEL) TOOLS  
OUTILLAGE INOX  
INOX WERKZEUGE  
UTENSILI INOX  
FERRAMENTA INOX  
ИНСТРУМЕНТ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ

INOX





# INOX

Un mundo desarrollándose exponencialmente rápido, genera crecientes necesidades en materia de seguridad y aplicaciones de tecnología avanzada.

**EGA Master** ha desarrollado una nueva gama de herramientas de acero inoxidable para proporcionar soluciones a algunas de estas necesidades. El acero inoxidable 420\* contribuye a evitar contaminaciones, oxidación y cumplimiento de requisitos de sala blanca.

*A world developing exponentially fast, creates increasing needs on safety and technologically advanced applications.*

*EGA Master has developed a new range of stainless steel tools to provide solutions to some of these needs. 420\* stainless steel contributes to avoid contaminations, rusting and complying with clean room environment requirements.*

Le monde en plein développement exponentiel, crée une augmentation des besoins en matière de sécurité et applications de technologie avancées

**EGA Master** a développé une nouvelle gamme d'outillages en acier inoxydable pour apporter des solutions à certains de ces besoins. L'acier inoxydable 420\* contribue à éviter la contamination, l'oxydation en respectant les règles ambiantales des milieux extra sain.



\* Los armarios portaherramientas inox están fabricados en acero inoxidable 430.  
*The stainless steel roller cabinets are made of 430 stainless steel.*  
 Les servantes en inox sont fabriquées en acier inoxydable 430.



| Propiedades requeridas<br>Property required<br>Propriétés recommandées                                                                                                                                                                     | Necesarias en<br>Where needed<br>Nécessité dans                                                                                                                                                                                                                                                                                                            | Sectores<br>Sectors<br>Secteurs                                                                                                                 | Porque no acero al carbón<br>Why not carbon steel<br>Pourquoi pas d'acier au carbone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Porque acero inoxidable<br>Why stainless steel<br>Pourquoi acier inoxydable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Tolerancia cero o baja a contaminación y partículas</p> <p><i>Zero or low tolerance to contamination and particles</i></p> <p>Tolérance base ou zéro à la contamination et aux particules</p>                                           | <p>Producción esterilizada en entornos críticos</p> <p><i>Sterile production in critical environments</i></p> <p>Production stérilisé dans des milieux critiques</p>                                                                                                                                                                                       | Laboratorios / <i>Laboratories</i> / Laboratoires                                                                                               | <p>Sólo pueden ser esterilizadas unas pocas decenas de veces, ya que el cromado utilizado para evitar que se oxiden se deteriorará, se descascarillará con el tiempo, contaminando el proceso.</p> <p><i>They can only be sterilized few dozens of times, as the chrome plating used to avoid rust will deteriorate and chip off with time, contaminating the process</i></p> <p>Ne peuvent être stérilisé qu'une dizaine de fois vu que le chromé utilisé évitant l'oxidation se détériore et se déséquilibre avec le temps, contaminant le process</p>                                              | <p>Los materiales y el acabado utilizados en su producción permiten su esterilización miles de veces.</p> <p><i>Materials and finishing used in their production enables sterilizing them thousands of times</i></p> <p>Les matériaux et la finition utilisés dans sa fabrication lui permette plus de 1000 stérilisation .</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                            | Bioteología y biomedicina<br><i>Biotech and biomedical</i><br>Biotechnologie et biomedical                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                            | Salas blancas / <i>Cleanrooms</i> / Chambres stériles                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                            | Farmacéuticas / <i>Pharmaceutical</i> / Pharmaceutique                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                            | Producción de nutrientes<br><i>Nutrient production</i><br>Production alimentaire                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                            | Industria nuclear<br><i>Nuclear industry</i><br>Industries nucléaires                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                            | Producción de obleas de silicio<br><i>Silicone wafer production</i><br>Production de plaquettes de silicium                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Proceso de alimentos<br><i>Food processing</i><br>Process alimentaire                                                                                                                                                                      | Instalaciones en medios húmedos<br><i>Wet process facilities</i><br>Installation en milieu humides                                                                                                                                                                                                                                                         |                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p>Evitar la oxidación prematura de piezas por la contaminación de partículas</p> <p><i>Avoiding premature rust of parts by particle contamination</i></p> <p>Évite l'échange d'oxidation de pièces par la contamination de particules</p> | <p>El uso de herramientas en componentes de acero inoxidable, tales como tornillos, tuercas, arandelas, tubos, barras, etc.</p> <p><i>Using tools on Stainless Steel components such as screws, nuts, washers, pipes, bars, etc.</i></p> <p>L'utilisation d'outils en acier inoxydables tout comme les vis, les écrous, rondelles, tubes, barres, ect.</p> | Sector naval / <i>Ship building</i> / Secteur naval                                                                                             | <p>Las herramientas de acero al carbono pueden dejar pequeñas partículas sobre los componentes de acero inoxidable, los cuales se pueden contaminar, y oxidarse</p> <p><i>Carbon steel tools can leave small particles on stainless steel components, which will get contaminated, and make them rust</i></p> <p>Les outils en acier de carbone peuvent laisser des petites particules sur les composants en acier inoxydables, qui peuvent être contaminés et oxidar</p>                                                                                                                             | <p>Las herramientas de acero inoxidable no contaminan otros componentes de acero INOX y, por lo tanto, no se produce su oxidación</p> <p><i>Stainless steel tools will not contaminate other SS components and thus not make them get rusted</i></p> <p>Les outils en aciers inoxydable ne contamineront les autres composant et par conséquent ne produiront aucune oxidation</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                            | Construcción / <i>Construction</i> / Construction                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                            | Fabricación / <i>Manufacturing</i> / Fabrication                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                            | Automóvil / <i>Automotive</i> / Automobile                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                            | Aeronáutica / <i>Aeronautics</i> / Aeronautique                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                            | Aplicaciones marítimas<br><i>Marine applications</i><br>Application maritimes                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                            | Estaciones de servicio y energía<br><i>Power</i><br>Station service et énergétique                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Industria química<br><i>Chemical Industries</i><br>Industries chimiques                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p>Aumento de la vida útil de la herramienta</p> <p><i>Increasing tool lifetime</i></p> <p>Augmentation de la durée de vie utile des outils</p>                                                                                            | <p>Entornos corrosivos</p> <p><i>Corrosive environments</i></p> <p>Milieux corrosifs</p>                                                                                                                                                                                                                                                                   | Naval (buques / mantenimiento de barcos)<br><i>Naval ( vessels / ship maintenance)</i><br>Naval ( navires / manutention de bateaux)             | <p>Las herramientas de acero al carbono, incluso cuando están cromados, se oxidarán rápidamente en áreas altamente corrosivas, dejándolas inutilizables y teniendo que reemplazarlas con frecuencia</p> <p><i>Carbon steel tools, even when they are chrome plated, will rust quickly in highly corrosive areas, leaving them unusable and having to replace them frequently</i></p> <p>Les outils en carbone, inclus quand ils sont en polies s'oxiderront de façon rapide dans des milieux hautement corosifs et les laissant inutilisables et par conséquent seront remplacés plus fréquemment</p> | <p>El acero inoxidable es un acero de bajo contenido en carbono enriquecido con un 10 % de cromo, que permite la formación de una capa de óxido de cromo invisible que protege el núcleo de la oxidación. Incluso cuando la capa está dañada químicamente o mecánicamente, el oxígeno del medio ambiente reparará la capa de nuevo</p> <p><i>Stainless steel is a low carbon steel enriched with above 10% chromium, which allows the formation of an invisible chromium oxide layer that protects the core from rusting. Even when the layer is damaged chemically or mechanically, the oxygen of the environment will repair the layer again</i></p> <p>L'acier inoxidable est un acier a faible composition en carbone enrichi avec 10% de Chrome qui permet la formation d'une pellicule d'oxide de Chrome invisible qui protège de l'oxidation. Meme quand la pellicule est détérioré par un impact l'oxigène du milieux ambiant repare la pellicule</p> |
|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                            | Subacuático / <i>Subaquatic</i> / Subaquatique                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                            | Offshore (Petróleo & Gas / Energía eólica...)<br><i>Offshore (Oil &amp; Gas / Wind Power...)</i><br>Offshore (pétrole & gaz / énergie éolienne) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                            | Plantas de energía nuclear<br><i>Nuclear Power plants</i><br>Plate-forme d'énergie nucléaire                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                            | Industria química<br><i>Chemical industries</i><br>Industries chimique                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                            | Entornos húmedos<br><i>Humid environments</i><br>Environnements humide                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                            | Proceso húmedo<br><i>Wet processing</i><br>Processus humide                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                            | Desalinización del agua<br><i>Water desalination</i><br>Évacuation des eaux                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                            | Explotación salinera<br><i>Salt production</i><br>Exploitation des salines                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                            | Plantas de tratamiento de aguas<br><i>Water treatment plants</i><br>Plate-forme du traitement des eaux                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

Como ocurre con los aceros al carbono, hay docenas de diferentes aceros inoxidable y cada uno de ellos presenta diferentes propiedades para diferentes aplicaciones: algunos son más resistentes a la corrosión, otros son más resistentes a la tracción, otros más duros... Pero ninguno de ellos mejor en todo el conjunto de propiedades.

EGA Master ha elegido el acero inoxidable 420 para la fabricación de sus herramientas, ya que combina de manera óptima las diferentes propiedades requeridas para la fabricación y uso de herramientas de acero inoxidable:

*As with carbon steels, there are dozens of different stainless steels, each of them presenting different properties for different applications. Some are more resistant to rust, some other are stronger, some harder... But non of them is best in all properties.*

*EGA Master has chosen 420 Stainless steel for the manufacturing its tools, as it combines optimally different properties required for manufacturing and use of stainless steel tools:*

Comme avec les aciers au carbone, il existe une douzaine de différents aciers inoxydables, qui chacun d'entre eux présente différentes propriétés pour différentes applications. Certains sont plus résistants à la corrosion, d'autres plus résistants à la traction, d'autres plus dur... Mais aucun meilleur dans un ensemble de propriétés.

EGA Master a élu l'acier inoxydable 420 pour la fabrication de ses outils, vu qu'il associe de façon optimale les différentes propriétés requise pour la fabrication et l'utilisation d'outils en acier inoxydable:

|                                                                                |                         |
|--------------------------------------------------------------------------------|-------------------------|
| Dureza / <i>Hardness</i> / Dureté                                              | 38-48 HRC               |
| Resistencia a la tracción / <i>Tensile Strength</i> / Resistance à la traction | ≥ 635 N/mm <sup>2</sup> |

| Propiedades / <i>Properties</i> / Propriétés                                    | Aplicación y beneficios / <i>Application &amp; benefits</i> / Application et bénéfices                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Evita la contaminación / <i>Avoiding contamination</i> / Evite la contamination | No contaminación por hierro o cromo-níquel / <i>No iron or chrome-nickel contamination</i> / Pas de contamination de l'acier et Chrome-nikel                                                                                                                                                                                                                                                                                                         |
| Esterilización / <i>Sterilization</i> / Stérilisation                           | Miles de procesos de esterilización / <i>Thousands of sterilizing processes</i> / 1000 process de stérilisation                                                                                                                                                                                                                                                                                                                                      |
| Vida útil / <i>Durability</i> / Longévité                                       | La dureza, resistencia y protección antioxido proporcionan mayor durabilidad / <i>Combination of hardness, resistance and antirust protection makes it most durable</i> / La dureté, resistance et protection antioxidante proportionne une plus grande longévité                                                                                                                                                                                    |
| Coste / <i>Cost</i> / Coût                                                      | Siendo una aleación para su producción en serie, junto con sus buenas propiedades de fabricación hace que sea más rentable para la fabricación de herramientas / <i>Being a mass production alloy together with having good manufacturing properties makes it most cost effective for tool manufacturing</i> / En aléation à une fabrication en serie, et en conjunction avec ses excellentes propriétés de fabrication fait qu'il est plus rentable |

| MAT: 420                                       |    |               |
|------------------------------------------------|----|---------------|
| Composición / <i>Composition</i> / Composition | C  | 0,16 - 0,25 % |
|                                                | Mn | ≤ 1,00 %      |
|                                                | Si | ≤ 1,00 %      |
|                                                | Cr | 12 % - 14 %   |

En EGA Master estamos seguros de que la prevención es la cura más eficaz no sólo para aumentar la seguridad, sino también desde el punto de vista de la reducción de costes. Eliminar el riesgo de transferencia ferrosa es un factor clave para aumentar la rentabilidad a largo plazo, mientras se mantienen la seguridad en procesos y personas.

*In EGA Master we are sure that prevention is the most effective cure not only for increased safety, but also from an cost effective point of view. Eliminating the risk of ferrous transfer is a key factor for increasing profitability on the long term, while keeping processes, and people, safe.*

Chez EGA Master nous sommes sûr que la prévention est le remède le plus efficace pour augmenter la sécurité, mais aussi d'un point de vue de réduction de coût. Eliminer le risque de transfert ferreux est un facteur clef pour augmenter la rentabilité a long terme, tout en maintenant la sécurité du process et des personnes.

**PRECAUCIONES**  
**CAUTION**  
**PRÉCAUTIONS**

Estas herramientas no están clasificadas como antimagnéticas, sino que se trata de herramientas fabricadas en acero inoxidable martensítico-ferromagnético cuya permeabilidad magnética es muy superior a la unidad.


*These tools are not classified as non-magnetic but tools made of martensitic - ferromagnetic stainless steel whose magnetic permeability is much higher than the unit.*

Cet outillage n'est pas classé comme antimagnétique, il s'agit d'un outillage fait en acier inoxydable martensitique-ferromagnétique dont la perméabilité magnétique est très supérieure à l'unité.




■ **ALICATES / PLIERS / PINCES / ZANGEN / PINZE / ALICATES / ПЛОСКОГУБЦЫ**

■ **UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALI / UNIVERSAIS / КОМБИНИРОВАННЫЕ**

| COD.         | L (mm) |  |
|--------------|--------|-----------------------------------------------------------------------------------|
| <b>38137</b> | 160    | 230                                                                               |
| <b>38667</b> | 170    | 250                                                                               |
| <b>38138</b> | 200    | 360                                                                               |




■ **BOCA PLANA / FLAT NOSE / BEC PLATS / FLACHZANGEN / BECCHI PIATTI / PONTAS CHATAS / УТКОНОСЫ**

| COD.         | L (mm) |  |
|--------------|--------|-----------------------------------------------------------------------------------|
| <b>38139</b> | 160    | 90                                                                                |




■ **BOCA REDONDA / ROUND NOSE / BECS ROUNDS / RUNDZANGEN / BECCHI TONDI / PONTAS REDONDAS / КРУГЛОГУБЦЫ**

| COD.         | L (mm) |  |
|--------------|--------|-----------------------------------------------------------------------------------|
| <b>38140</b> | 160    | 70                                                                                |




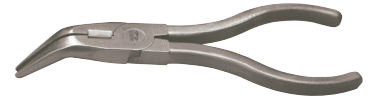
■ **TELEFONISTA / LONG NOSE / TÉLÉPHONE / TELEFONZANGEN / TELEFONISTI / TELEFONISTA / С удлинненными носами**

| COD.         | L (mm) |  |
|--------------|--------|-----------------------------------------------------------------------------------|
| <b>38141</b> | 160    | 90                                                                                |
| <b>38142</b> | 200    | 150                                                                               |




■ **TELEFONISTA BOCA CURVA / BENT NOSE PLIERS / TÉLÉPHONE BECS COUDÉS / TELEFONZANGEN GEBOGEN / TELEFONISTI BECCHI PIEGATI / TELEFONISTA PONTAS CURVAS / С ИЗОГНУТЫМИ НОСАМИ**

| COD.         | L (mm) |  |
|--------------|--------|-------------------------------------------------------------------------------------|
| <b>38143</b> | 160    | 80                                                                                  |
| <b>38144</b> | 200    | 150                                                                                 |




■ **CORTE DIAGONAL / DIAGONAL CUTTING PLIERS / COUPANTES DIAGONALES / SEITENSCHNEIDER / TAGLIO LATERALE / CORTE DIAGONAL / УДЛИННЕННЫЕ ТОНКИЕ**

| COD.         | L (mm) |  |
|--------------|--------|-------------------------------------------------------------------------------------|
| <b>38145</b> | 160    | 120                                                                                 |
| <b>38668</b> | 200    | 200                                                                                 |




■ **CORTE DIAGONAL REFORZADO / HEAVY DUTY CUTTING NIPPERS / COUPANTES RENFORCEÉS / VERSTÄRKTER SEITENSCHNEIDER / TAGLIO LATERALE RINFORZATO / CORTE DIAGONAL REFORÇADO / УСИЛЕННЫЕ БОКОРЕЗЫ**

| COD.         | L (mm) |  |
|--------------|--------|-------------------------------------------------------------------------------------|
| <b>38146</b> | 180    | 190                                                                                 |
| <b>38669</b> | 200    | 230                                                                                 |



■ **CORTE FRONTAL / END CUTTING NIPPER / COUPANTES DEVANT / VORSCHNEIDER / TAGLIO FRONTALE / CORTE FRONTAL / КЛЕЩИ**

| COD.         | L (mm) |  |
|--------------|--------|-------------------------------------------------------------------------------------|
| <b>38147</b> | 160    | 170                                                                                 |




■ **CORTE FRONTAL ELECTRICISTA / END CUTTING NIPPER (ELECTRICIAN) / COUPANTES DEVANT ELECTRICIEN / ELEKTRIKER VORSCHNEIDER / TAGLIO FRONTALE PER ELETTRICISTI / CORTE FRONTAL ELECTRICISTA / КЛЕЩИ (ЭЛЕКТРИЧЕСКИЕ)**

| COD.         | L (mm) |  |
|--------------|--------|-------------------------------------------------------------------------------------|
| <b>38670</b> | 150    | 170                                                                                 |
| <b>38148</b> | 200    | 260                                                                                 |




■ PELACABLES / WIRESTRIPPER / PINCES À DÉNUDER / ABISOLIERZANGEN / PINZE SPELAFILI / DECAPADORES / КЛЕЩИ ДЛЯ ЗАЧИСТКИ КОНТАКТОВ

| COD.  | L (mm) |  |
|-------|--------|-----------------------------------------------------------------------------------|
| 38149 | 160    | 120                                                                               |



■ BIMAT


■ UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALI / UNIVERSAIS / КОМБИНИРОВАННЫЕ

| COD.  | L (mm) |  |
|-------|--------|-----------------------------------------------------------------------------------|
| 38000 | 160    | 230                                                                               |
| 38001 | 180    | 280                                                                               |
| 38002 | 200    | 360                                                                               |



**BIMAT** | Modelo registrado / Registered model / Modèle enregistré


■ BOCA PLANA / FLAT NOSE / BEC PLATS / FLACHZANGEN / BECCHI PIATTI / PONTAS CHATAS / УТКОНОСЫ

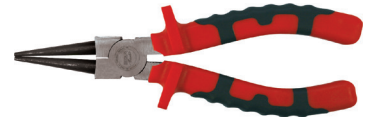
| COD.  | L (mm) |  |
|-------|--------|-----------------------------------------------------------------------------------|
| 38003 | 160    | 170                                                                               |



**BIMAT** | Modelo registrado / Registered model / Modèle enregistré


■ BOCA REDONDA / ROUND NOSE / BECS ROUNDS / RUNDZANGEN / BECCHI TONDI / PONTAS REDONDAS / КРУГЛОГУБЦЫ

| COD.  | L (mm) |  |
|-------|--------|-------------------------------------------------------------------------------------|
| 38004 | 160    | 150                                                                                 |



**BIMAT** | Modelo registrado / Registered model / Modèle enregistré


■ TELEFONISTA / LONG NOSE / TÉLÉPHONE / TELEFONZANGEN / TELEFONISTI / TELEFONISTA / СУДЛИННЕННЫМИ НОСАМИ

| COD.  | L (mm) |  |
|-------|--------|-------------------------------------------------------------------------------------|
| 38005 | 160    | 170                                                                                 |
| 38006 | 200    | 230                                                                                 |



**BIMAT** | Modelo registrado / Registered model / Modèle enregistré


■ TELEFONISTA BOCA CURVA / BENT NOSE PLIERS / TÉLÉPHONE BECS COUDÉS / TELEFONZANGEN GEBOGEN / TELEFONISTI BECCHI PIEGATI / TELEFONISTA PONTAS CURVAS / С ИЗОГНУТЫМИ НОСАМИ

| COD.  | L (mm) |  |
|-------|--------|-------------------------------------------------------------------------------------|
| 38007 | 160    | 160                                                                                 |
| 38008 | 200    | 230                                                                                 |



**BIMAT** | Modelo registrado / Registered model / Modèle enregistré


■ BOCA AGUJA / LONG NEEDLE NOSE / LONG BECS DEMI-RONDS / FLACHZANGE MIT LANGEM MAUL / BECCHI TONDI AFFUSOLATI / PONTAS AGULHA / УДЛИННЕННЫЕ ТОНКИЕ

| COD.  | L (mm) |  |
|-------|--------|-------------------------------------------------------------------------------------|
| 38086 | 160    | 110                                                                                 |



**BIMAT** | Modelo registrado / Registered model / Modèle enregistré


■ CORTE DIAGONAL / DIAGONAL CUTTING PLIERS / COUPANTES DIAGONALES / SEITENSCHNEIDER / TAGLIO LATERALE / CORTE DIAGONAL / УДЛИННЕННЫЕ ТОНКИЕ

| COD.  | L (mm) |  |
|-------|--------|-------------------------------------------------------------------------------------|
| 38009 | 160    | 200                                                                                 |
| 38010 | 190    | 230                                                                                 |



**BIMAT** | Modelo registrado / Registered model / Modèle enregistré


**CORTE DIAGONAL REFORZADO / HEAVY DUTY CUTTING NIPPERS / COUPANTES RENFORCEÉS / VERSTÄRKTER SEITENSCHNEIDER / TAGLIO LATERALE RINFORZATO / CORTE DIAGONAL REFORÇADO / УСИЛЕННЫЕ БОКОРЕЗЫ**

| COD.  | L (mm) |  |
|-------|--------|-----------------------------------------------------------------------------------|
| 38011 | 180    | 270                                                                               |
| 38012 | 200    | 340                                                                               |



**BMAT** | Modelo registrado / Registered model / Modèle enregistré

**CORTE FRONTAL / END CUTTING NIPPER / COUPANTES DEVANT / VORSCHNEIDER / TAGLIO FRONTALE / CORTE FRONTAL / КЛЕЩИ**

| COD.  | L (mm) |  |
|-------|--------|-----------------------------------------------------------------------------------|
| 38013 | 160    | 250                                                                               |



**BMAT** | Modelo registrado / Registered model / Modèle enregistré


**CORTE FRONTAL ELECTRICISTA / END CUTTING NIPPER (ELECTRICIAN) / COUPANTES DEVANT ELECTRICIEN / ELEKTRIKER VORSCHNEIDER / TAGLIO FRONTALE PER ELETTRICISTI / CORTE FRONTAL ELETTRICISTA / КЛЕЩИ (ЭЛЕКТРИЧЕСКИЕ)**

| COD.  | L (mm) |  |
|-------|--------|-----------------------------------------------------------------------------------|
| 38014 | 160    | 250                                                                               |
| 38015 | 200    | 340                                                                               |



**BMAT** | Modelo registrado / Registered model / Modèle enregistré

**PELACABLES / WIRESTRIPPER / PINCES À DÉNUDER / ABISOLIERZANGEN / PINZE SPELAFILI / DECAPADORES / КЛЕЩИ ДЛЯ ЗАЧИСТКИ КОНТАКТОВ**



| COD.  | L (mm) |  |
|-------|--------|-------------------------------------------------------------------------------------|
| 38016 | 160    | 200                                                                                 |



**BMAT** | Modelo registrado / Registered model / Modèle enregistré



**ALICATES CIRCLIP / CIRCLIPS PLIERS / PINCES POUR CIRCLIPS / ZANGEN FÜR SICHERUNGSRINGE / PINZE PER ANELLI / ALICATES FREIOS / СЪЕМНИК КОЛЕЦ**

**EXTERIOR RECTO / EXTERNAL STRAIGHT / EXTERIEUR DROIT / AUSSENSICHERUNGSRINGE, GERADE / DIRITTA PER ESTERNI / EXTERIOR DIREITO / НАРУЖНЫЕ ПРЯМЫ**

| COD.  | L (mm) |  |  |
|-------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 38914 | 140    | 3-10                                                                                | 190                                                                                 |
| 38915 |        | 8-25                                                                                |                                                                                     |
| 38916 |        | 10-25                                                                               |                                                                                     |
| 38890 | 200    | 19-60                                                                               | 290                                                                                 |
| 38917 | 250    | 40-100                                                                              | 420                                                                                 |





**EXTERIOR CURVO / EXTERNAL BENT / EXTERIEUR COUDÉ / BACKEN UM 90 GEBOGEN / PIEGATO PER ESTERNI / EXTERIOR CURVO / НАРУЖНЫЕ ИЗОГНУТЫЕ**

| COD.  | L (mm) |  |  |
|-------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 38918 | 140    | 3-10                                                                                | 190                                                                                 |
| 38919 |        | 8-25                                                                                |                                                                                     |
| 38920 |        | 10-25                                                                               |                                                                                     |
| 38892 | 200    | 19-60                                                                               | 290                                                                                 |
| 38921 | 250    | 40-100                                                                              | 420                                                                                 |



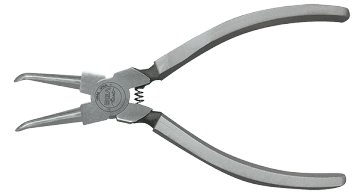
**INTERIOR RECTO / INTERNAL STRAIGHT / INTERIEUR DROIT / INNENSICHERUNGSRINGE, GERADE / DIRITTO PER INTERNI / INTERIOR DIREITO / ВНУТРЕННИЕ ПРЯМЫЕ**

| COD.  | L (mm) |  |  |
|-------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 38441 | 140    | 8-13                                                                                | 190                                                                                 |
| 38442 |        | 12-25                                                                               |                                                                                     |
| 38891 | 200    | 19-60                                                                               | 290                                                                                 |
| 38609 | 250    | 40-100                                                                              | 420                                                                                 |



■ **INTERIOR CURVO / INTERNAL BENT / INTERIEUR COUDÉ / BACKEN UM 90 GEBOGEN / PIEGATTO PER INTERNI / INTERIOR CURVO / ВНУТРЕННИЕ ИЗОГНУТЫЕ**

| COD.         | L (mm) | O.D.<br>mm | g   |
|--------------|--------|------------|-----|
| <b>38234</b> | 140    | 8-13       | 190 |
| <b>38272</b> |        | 12-25      |     |
| <b>38893</b> | 200    | 19-60      | 290 |
| <b>38273</b> | 250    | 40-100     | 420 |



■ **ALICATES MINIS / MINI PLIERS / PINCES MINI / MINI ZANGEN / PINZE MINI / ALICATES MINI / ПЛОСКОГУБЦЫ МИНИ**

■ **UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALI / UNIVERSAIS / КОМБИНИРОВАННЫЕ**

| COD.         | L (mm) | g  |
|--------------|--------|----|
| <b>38081</b> | 125    | 90 |



■ **BOCA PLANA / FLAT NOSE / BEC PLATS / FLACHZANGEN / BECCHI PIATTI / PONTAS CHATAS / УТКОНОСЫ**

| COD.         | L (mm) | g  |
|--------------|--------|----|
| <b>38082</b> | 130    | 70 |



■ **BOCA REDONDA / ROUND NOSE / BECS RONDS / RUNDZANGEN / BECCHI TONDI / PONTAS REDONDAS / КРУЛГОУБЦЫ**

| COD.         | L (mm) | g  |
|--------------|--------|----|
| <b>38083</b> | 130    | 80 |



■ **TELEFONISTA / LONG NOSE / TÉLÉPHONE / TELEFONZANGEN / TELEFONISTI / TELEFONISTA / СУДЛИННЕННЫМИ НОСАМИ**

| COD.         | L (mm) | g  |
|--------------|--------|----|
| <b>38084</b> | 130    | 70 |



■ **TELEFONISTA BOCA CURVA / BENT NOSE PLIERS / TÉLÉPHONE BECS COUDÉS / TELEFONZANGEN GEBOGEN / TELEFONISTI BECCHI PIEGATI / TELEFONISTA PONTAS CURVAS / С ИЗОГНУТЫМИ НОСАМИ**

| COD.         | L (mm) | g  |
|--------------|--------|----|
| <b>38085</b> | 130    | 80 |




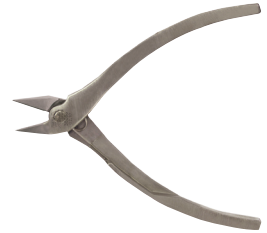
■ CORTE DIAGONAL / DIAGONAL CUTTING PLIERS / COUPANTES DIAGONALES / SEITENSCHNEIDER / TAGLIO LATERALE / CORTE DIAGONAL / УДЛИНЕННЫЕ ТОНКИЕ

| COD.  | L (mm) |  |
|-------|--------|-----------------------------------------------------------------------------------|
| 38087 | 115    | 70                                                                                |




■ CORTE DIAGONAL TRIANGULAR / DIAGONAL CUTTING TRIANGULAR / COUPANTES DIAGONALE TRIANGULAIRE / SEITENSCHNEIDER / TAGLIO LATERALE TRIANGOLARE / CORTE DIAGONAL TRIANGULAR / БОКОРЕЗЫ ТРЕУГОЛЬНЫЕ

| COD.  | L (mm) |  |
|-------|--------|-----------------------------------------------------------------------------------|
| 38088 | 115    | 80                                                                                |




■ CORTE FRONTAL / END CUTTING NIPPER / COUPANTES DEVANT / VORSCHNEIDER / TAGLIO FRONTALE / CORTE FRONTAL / КЛЕЩИ

| COD.  | L (mm) |  |
|-------|--------|------------------------------------------------------------------------------------|
| 38089 | 110    | 65                                                                                 |



■ TENAZAS / PINCERS / TENAILLES / ZANGE / TENAGLIE / ALICATES / КЛЕЩИ

■ DE CANAL / BOX JOINT / MULTIPRISE ENTREPASSÉE / WASSERPUMPENZANGE / PINZE REGOLABILI / BICO DE PAPAGAIO / ШАРНИРНЫЕ

| COD.  | L (inch) |  |
|-------|----------|-------------------------------------------------------------------------------------|
| 38066 | 10       | 320                                                                                 |
| 38067 | 12       | 515                                                                                 |

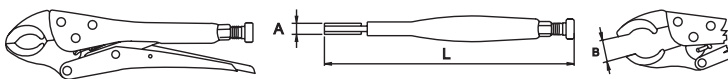





■ PICO DE LORO / GROOVE JOINT / MULTIPRISE À CRÉMAILLÈRE / WASSERPUMPENZANGE / PINZE REGOLABILI / BICO DE PAPAGAIO / КЛЕЩИ ЖЕЛОБКОВОГО ТИПА

| COD.  | L (inch) |  |
|-------|----------|-------------------------------------------------------------------------------------|
| 38176 | 10       | 360                                                                                 |
| 38177 | 12       | 610                                                                                 |



■ GRIP / GRIP / PINCE ÉTAU / GRIPZANGE / PINZE GRIP / PRESSÃO / СТРУБЦИНА



| COD.  | L (inch) | L (mm) | A (mm) | B (mm) |  |  |  |
|-------|----------|--------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 38178 | 10       | 225    | 12     | 40     | 480                                                                                 | 8                                                                                   | ●                                                                                     |



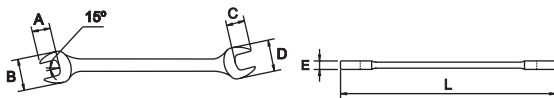
■ **LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ**

■ **LLAVE AJUSTABLE / ADJUSTABLE WRENCH / CLÉ À MOLETTE / ROLLGABELSCHÜSSEL / CHIAVE REGOLABILI A RULLINO / CHAVE AJUSTAVEL / РАЗВОДНЫЕ КЛЮЧИ**

| COD.  | L (inch) | L (mm) | AF mm | g    |
|-------|----------|--------|-------|------|
| 38929 | 6        | 150    | 19    | 135  |
| 38171 | 8        | 200    | 24    | 240  |
| 38172 | 10       | 250    | 28    | 445  |
| 38173 | 12       | 300    | 34    | 680  |
| 38930 | 15       | 375    | 46    | 1400 |
| 38931 | 18       | 450    | 55    | 2000 |
| 38932 | 24       | 600    | 65    | 4700 |



■ **LLAVES FIJAS / OPEN-END WRENCHES / CLÉS À FOURCHE / GABELSCHLÜSSEL / CHIAVI FISSE / CHAVES DUAS BOCAS / РОЖКОВЫЕ КЛЮЧИ**



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | g   |
|-------|-------|--------|--------|--------|--------|--------|--------|-----|
| 38622 | 6-7   | 90     | 6      | 16     | 7      | 14     | 4      | 19  |
| 38623 | 8-9   | 100    | 8      | 18     | 9      | 24     | 5      | 38  |
| 38624 | 10-11 | 120    | 10     | 27     | 11     | 24     | 5,5    | 56  |
| 38625 | 12-13 | 130    | 14     | 31     | 12     | 27     | 6      | 60  |
| 38626 | 14-15 | 150    | 17     | 37     | 14     | 31     | 6,5    | 95  |
| 38627 | 16-17 | 165    | 18     | 37     | 19     | 41     | 7,5    | 140 |
| 38650 | 18-19 | 165    | 18     | 37     | 19     | 41     | 7,5    | 140 |
| 38621 | 19-22 | 180    | 19     | 41     | 22     | 47     | 8,5    | 190 |
| 38651 | 20-22 | 180    | 20     | 41     | 22     | 47     | 8,5    | 190 |
| 38652 | 21-23 | 210    | 21     | 47     | 23     | 51     | 9      | 250 |
| 38628 | 22-24 | 210    | 22     | 47     | 24     | 51     | 9      | 250 |
| 38653 | 24-26 | 230    | 24     | 51     | 26     | 57     | 9,5    | 320 |
| 38943 | 24-27 | 230    | 24     | 51     | 27     | 57     | 9,5    | 320 |
| 38654 | 25-28 | 250    | 25     | 57     | 28     | 64     | 10     | 410 |
| 38944 | 27-29 | 250    | 27     | 57     | 29     | 64     | 10     | 410 |
| 38656 | 27-30 | 250    | 27     | 57     | 30     | 64     | 10     | 410 |
| 38655 | 27-32 | 290    | 27     | 67     | 32     | 67     | 11     | 650 |
| 38606 | 32-36 | 290    | 32     | 67     | 36     | 75     | 11     | 650 |
| 38607 | 36-41 | 310    | 36     | 75     | 41     | 85     | 12     | 870 |
| 38608 | 38-42 | 310    | 36     | 75     | 42     | 85     | 12     | 870 |



■ **SET**

| COD.  | PCS. | 90053 | g   |
|-------|------|-------|-----|
| 38629 | 8    | 90053 | 900 |

| PCS. | Composición / Composition / Composition                | Descripción / Description / Description                                                   |
|------|--------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 8    | 38622, 38623, 38624, 38625, 38626, 38627, 38650, 38621 | Llave fija INOX / Open-end wrench INOX 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 19-22 |



■ **FIJA UNA BOCA / SINGLE ENDED OPEN JAW SPANNER / À FOURCHE SIMPLÉ / EINMAULSCHLÜSSEL / FISSE SEMPLICE / FIXA DE UMA BOCA / ОДНОРОЖКОВЫЙ КЛЮЧ**

| COD.  | AF mm | L (mm) | g   |
|-------|-------|--------|-----|
| 38887 | 7     | 95     | 40  |
| 38894 | 10    | 105    | 50  |
| 38895 | 12    | 125    | 65  |
| 38896 | 14    | 140    | 95  |
| 38897 | 16    | 160    | 100 |
| 38898 | 17    | 160    | 105 |
| 38899 | 18    | 170    | 120 |
| 38900 | 19    | 170    | 130 |
| 38901 | 24    | 220    | 190 |



41

**HERRAMIENTA INOX**  
**INOX (STAINLESS STEEL) TOOLS**  
**OUTILLAGE INOX**  
**INOX WERKZEUGE**  
**UTENSILI INOX**  
**FERRAMENTA INOX**  
**ИНСТРУМЕНТ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ**



| COD.  | AP mm | L (mm) | g    |
|-------|-------|--------|------|
| 38902 | 27    | 240    | 285  |
| 38903 | 30    | 260    | 320  |
| 38904 | 32    | 275    | 400  |
| 38885 | 34    | 290    | 470  |
| 38905 | 36    | 310    | 500  |
| 38906 | 41    | 345    | 580  |
| 38907 | 46    | 375    | 900  |
| 38908 | 50    | 410    | 1150 |
| 38886 | 55    | 450    | 1400 |
| 38909 | 60    | 490    | 2000 |
| 38910 | 65    | 530    | 2800 |
| 38911 | 70    | 570    | 3000 |
| 38912 | 75    | 610    | 3500 |

■ **LLAVES COMBINADAS / COMBINATION WRENCHES / CLÉS MIXTES / GABEL RINGSCHLÜSSEL / CHIAVI COMBinate / CHAVES BOCA E LUNETA / КОМБИНИРОВАННЫЕ КЛЮЧИ**

■ **MM**

| COD.  | AP mm | L (mm) | g   |
|-------|-------|--------|-----|
| 38090 | 6     |        | 10  |
| 38091 | 7     | 115    |     |
| 38092 | 8     |        | 20  |
| 38093 | 9     |        | 30  |
| 38094 | 10    | 140    |     |
| 38095 | 11    |        | 40  |
| 38096 | 12    | 160    |     |
| 38097 | 13    |        | 60  |
| 38098 | 14    | 180    |     |
| 38099 | 15    |        | 80  |
| 38100 | 16    | 200    |     |
| 38101 | 17    |        | 110 |
| 38102 | 18    |        | 120 |
| 38103 | 19    | 225    |     |
| 38104 | 20    |        | 140 |
| 38105 | 21    | 250    |     |
| 38106 | 22    |        | 180 |
| 38107 | 23    |        | 200 |
| 38108 | 24    | 270    |     |
| 38109 | 25    |        | 220 |
| 38110 | 26    | 290    |     |
| 38111 | 27    |        | 310 |
| 38112 | 28    |        | 340 |
| 38113 | 29    | 320    |     |
| 38114 | 30    |        | 380 |
| 38115 | 32    | 350    |     |
| 38116 | 36    | 360    |     |
| 38117 |       |        | 550 |
| 38118 |       |        | 690 |



■ **INCH**

| COD.  | AP inch | L (mm) | g   |
|-------|---------|--------|-----|
| 38116 | 1/4     | 115    | 17  |
| 38117 | 5/16    |        |     |
| 38118 | 11/32   |        |     |
| 38119 | 3/8     | 140    |     |
| 38121 | 13/32   |        | 38  |
| 38120 | 7/16    | 160    |     |
| 38122 | 1/2     |        | 48  |
| 38123 | 9/16    | 180    |     |
| 38124 | 5/8     |        | 70  |
| 38125 | 11/16   | 200    |     |
| 38126 | 3/4     | 225    | 120 |
|       |         |        | 150 |



| COD.  | AF inch | L (mm) | g   |
|-------|---------|--------|-----|
| 38127 | 13/16   |        |     |
| 38128 | 25/32   | 250    | 210 |
| 38129 | 7/8     |        |     |
| 38130 | 15/16   | 270    |     |
| 38131 | 31/32   |        | 260 |
| 38132 | 1       | 290    |     |
| 38133 | 1.1/16  |        | 320 |
| 38134 | 1.1/8   | 320    | 400 |
| 38135 | 1.3/16  |        |     |
| 38136 | 1.1/4   | 350    | 525 |
| 38168 | 1.3/8   | 360    | 710 |
| 38169 | 1.1/2   | 380    | 990 |

## SET

## MM

| COD.  | PCS. | 90081 | g   |
|-------|------|-------|-----|
| 38216 | 8    | 90081 | 400 |

| PCS. | Composición / Composition / Composition                | Descripción / Description / Description        |                       |
|------|--------------------------------------------------------|------------------------------------------------|-----------------------|
| 8    | 38092, 38093, 38094, 38095, 38096, 38097, 38098, 38099 | Llave combinada INOX / Combination wrench INOX | 8-9-10-11-12-13-14-15 |



## INCH

| COD.  | PCS. | 90081 | g   |
|-------|------|-------|-----|
| 38217 | 8    | 90081 | 380 |

| PCS. | Composición / Composition / Composition                | Descripción / Description / Description        |                                                |
|------|--------------------------------------------------------|------------------------------------------------|------------------------------------------------|
| 8    | 38117, 38118, 38119, 38120, 38121, 38122, 38123, 38124 | Llave combinada INOX / Combination wrench INOX | 5/16"-11/32"-3/8"-13/32"-7/16"-1/2"-9/16"-5/8" |



**LLAVE COMBINADA DE CARRACA / COMBINATION RATCHET WRENCH / CLÉ MIXTE À CLIQUET / RATSCHEN-RINGGABELSCHLÜSSEL / CHIAVE COMBINATA A CRICCO / CHAVE DE BOCA E LUNETA COM ROQUETE / КЛЮЧ ТРЕЩЕТОЧНЫЙ КОМБИНИРОВАННЫЙ**

| COD.  | AF mm | L (mm) | g   |
|-------|-------|--------|-----|
| 38174 | 19    | 280    | 240 |
| 38175 | 24    | 500    | 290 |
| 38219 | 27    |        | 300 |





**LLAVES ACODADAS / DOUBLE OFFSET RING WRENCHES / CLÉS POLYGAONALES CONTRE-COUDÉES / RINGSCHLÜSSEL / CHIAVI POLIGONALI / CHAVES LUNETA / КЛЮЧИ ДВОЙНАЯ ИЗОГНУТАЯ ЗВЕЗДОЧКА**

| COD.  | AF mm | L (mm) | g    |
|-------|-------|--------|------|
| 38823 | 6-7   | 170    | 47   |
| 38842 | 8-9   | 190    | 105  |
| 38843 | 10-11 | 200    | 155  |
| 38844 | 12-13 | 220    | 165  |
| 38845 | 14-15 | 255    | 170  |
| 38469 | 16-17 |        | 180  |
| 38846 | 18-19 | 280    | 270  |
| 38847 | 20-22 |        | 350  |
| 38876 | 21-23 | 320    | 355  |
| 38881 | 24-26 | 340    | 460  |
| 38882 | 25-28 | 350    | 510  |
| 38883 | 30-32 | 370    | 655  |
| 38888 | 32-36 | 430    | 950  |
| 38889 | 38-42 | 470    | 1210 |



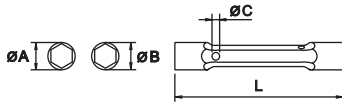






**KIT DEMO 6 LLAVES / 6 SPANNER DEMO KIT / KIT DÉMO. 6 CLÉS / DEMOKIT 6 SCHLÜSSEL / KIT 6 CHIAVI DI DIMOSTRAZIONE / KIT DEMO 6 CHAVES / ДЕМО НАБОР 6 КЛЮЧЕЙ**

| COD.         |                           |    |
|--------------|---------------------------|-------------------------------------------------------------------------------------|
| <b>69342</b> |                           | 300                                                                                 |
| COD. PCS.    |                           |  |
| 61727        | Aerospacial / Aerospacial |                                                                                     |
| 38092        | INOX                      |                                                                                     |
| 73062        | 1000V                     |                                                                                     |
| 70172        | Cu-Be                     | 8                                                                                   |
| 70684        | Al-Bron                   |                                                                                     |
| 71669        | Titanio / Titanium        |                                                                                     |




**DE TUBO DOBLE BOCA / SOCKET DOUBLE ENDED WRENCH / CLÉ À TUBE FORGÉE DROITE / DOPPEL-STECKSCHLÜSSEL / CHIAVI A TUBO / DIRITTE TUBOLARES BOCA DUPLA / ДВОЙНАЯ ГОЛОВКА**



| COD.         |  | L (mm) | A (mm) | B (mm) | C (mm) |  |  |  |
|--------------|-----------------------------------------------------------------------------------|--------|--------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>36709</b> | 6-7                                                                               | 105    | 13     | 13     |        | 70                                                                                |                                                                                   |                                                                                     |
| <b>38192</b> | 8-9                                                                               |        |        | 16     | 4      | 90                                                                                |                                                                                   |                                                                                     |
| <b>38194</b> | 7-10                                                                              | 115    | 14     | 17     |        | 100                                                                               |                                                                                   |                                                                                     |
| <b>36710</b> | 10-11                                                                             | 120    | 17     | 18     | 5      | 110                                                                               |                                                                                   |                                                                                     |
| <b>36711</b> | 12-13                                                                             | 140    | 19     | 20     | 6      | 170                                                                               | 10                                                                                | ●                                                                                   |
| <b>36712</b> | 14-15                                                                             |        | 22     | 23     | 8      | 255                                                                               |                                                                                   |                                                                                     |
| <b>36713</b> | 16-17                                                                             | 155    | 24     | 26     | 9      | 440                                                                               |                                                                                   |                                                                                     |
| <b>36714</b> | 18-19                                                                             | 165    | 27     | 29     | 11     | 520                                                                               |                                                                                   |                                                                                     |
| <b>36715</b> | 20-22                                                                             | 175    | 30     | 33     | 12     | 630                                                                               |                                                                                   |                                                                                     |
| <b>36716</b> | 21-23                                                                             | 185    | 31     | 34     |        | 670                                                                               |                                                                                   |                                                                                     |
| <b>36717</b> | 24-26                                                                             | 195    | 35     | 37     |        | 870                                                                               |                                                                                   |                                                                                     |
| <b>36718</b> | 24-27                                                                             |        |        |        |        |                                                                                   |                                                                                   |                                                                                     |
| <b>36719</b> | 25-28                                                                             | 205    | 36     | 40     | 13     | 965                                                                               | 6                                                                                 | -                                                                                   |
| <b>36720</b> | 27-29                                                                             |        | 39     | 42     |        | 1000                                                                              |                                                                                   |                                                                                     |
| <b>36721</b> | 30-32                                                                             | 210    | 43     | 45     |        | 1300                                                                              |                                                                                   |                                                                                     |



**LLAVE HEAVY DUTY / HEAVY DUTY PIPE WRENCH / CLÉ SERRE-TUBES HEAVY DUTY / HEAVY DUTY ROHRZANGE / GIRATUBI MODELLO AMERICANO PESANTE / CHAVE HEAVY DUTY / ТРУБНЫЕ КЛЮЧИ ДЛЯ БОЛЬШИХ НАГРУЗОК**

| COD.         | L (inch) | CAP. (inch) |  |
|--------------|----------|-------------|-------------------------------------------------------------------------------------|
| <b>38922</b> | 6        | 3/4         | 0,4                                                                                 |
| <b>38923</b> | 8        | 1           |                                                                                     |
| <b>38924</b> | 10       | 1.1/2       | 0,7                                                                                 |
| <b>38925</b> | 12       |             | 1,1                                                                                 |
| <b>38926</b> | 14       | 2           | 1,3                                                                                 |
| <b>38927</b> | 18       | 2.1/2       | 1,5                                                                                 |
| <b>38928</b> | 24       | 3           | 2,3                                                                                 |

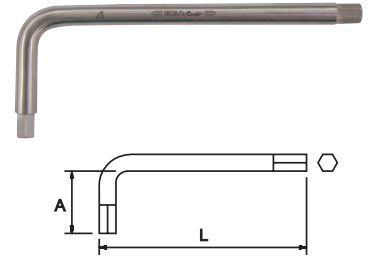


■ **LLAVES HEXAGONALES / HEXAGONAL KEYS / CLÉS MÂLES / INBUSSCHLÜSSEL / CHIAVI ESAGONALI / CHAVES HEXAGONAIS / ШЕСТИГРАННЫЕ КЛЮЧИ**

■ **STANDARD**

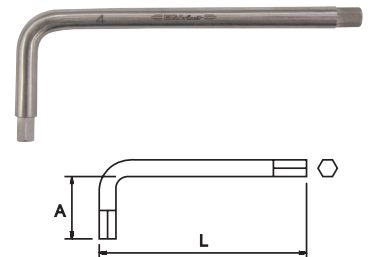
■ **MM**

| COD.  | AF mm | L (mm) | A (mm) | g   |
|-------|-------|--------|--------|-----|
| 38170 | 1,5   | 47     | 16     |     |
| 38186 | 2     | 52     |        | 5,0 |
| 38036 | 2,5   | 55     | 18     |     |
| 38037 | 3     |        |        |     |
| 38038 | 3,5   | 65     | 20     | 10  |
| 38039 | 4     | 70     | 25     |     |
| 38233 | 4,5   | 85     | 28     | 20  |
| 38040 | 5     |        | 30     |     |
| 38041 | 6     | 90     | 32     | 30  |
| 38042 | 7     | 95     | 34     | 40  |
| 38043 | 8     | 100    | 36     | 60  |
| 38044 | 9     | 105    | 38     | 80  |
| 38045 | 10    | 110    | 40     | 110 |
| 38046 | 11    | 120    | 42     | 150 |
| 38047 | 12    | 125    | 45     | 170 |
| 38657 | 14    | 160    | 55     | 360 |
| 38658 | 17    | 180    | 65     | 550 |



■ **INCH**

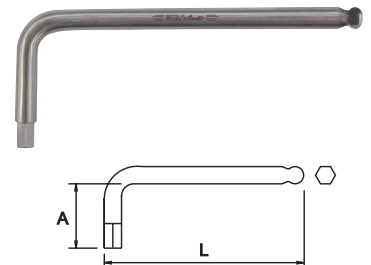
| COD.  | AF inch | L (mm) | A (mm) | g   |
|-------|---------|--------|--------|-----|
| 38605 | 1/16    | 45     | 14     | 3,0 |
| 38603 | 5/64    | 50     | 16     | 3,3 |
| 38604 | 3/32    | 60     | 18     | 4,0 |
| 38589 | 1/8     | 65     | 20     | 10  |
| 38590 | 9/64    | 75     | 25     | 15  |
| 38591 | 5/32    |        |        |     |
| 38592 | 3/16    | 85     | 28     |     |
| 38593 | 7/32    | 95     | 32     |     |
| 38594 | 1/4     | 100    | 34     | 40  |
| 38595 | 5/16    | 110    | 36     |     |
| 38596 | 3/8     | 115    | 38     | 50  |



■ **STANDARD CON PUNTA DE BOLA / STANDARD BALLPOINT / STANDARD EMBOUT SPHÉRIQUE / KUGELKOPF- WINKELSCHRAUBER / STANDARD CON PUNTA A SFERA / STANDARD COM BOLA / СТАНДАРТНЫЙ С ШАРИКОВОЙ ГОЛОВКОЙ**

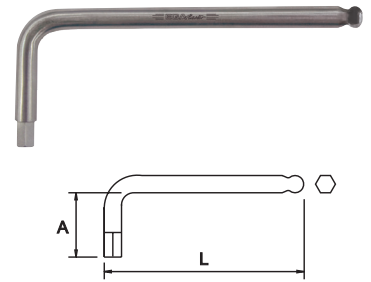
■ **MM**

| COD.  | AF mm | L (mm) | A (mm) | g   |
|-------|-------|--------|--------|-----|
| 38597 | 1,5   | 45     | 14     | 3,3 |
| 38598 | 2,5   | 55     | 18     |     |
| 38599 | 3     | 60     | 20     | 8   |
| 38600 | 4     | 70     | 25     | 14  |
| 38601 | 6     | 90     | 32     | 35  |
| 38602 | 10    | 112    | 40     | 135 |



INCH

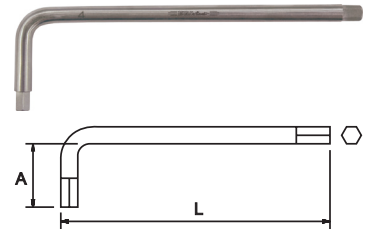
| COD.  | AF <sup>inch</sup> | L (mm) | A (mm) | g   |
|-------|--------------------|--------|--------|-----|
| 38948 | 1/16               | 47     | 14     | 2,5 |
| 38949 | 5/64               | 55     | 16     | 3   |
| 38950 | 3/32               | 60     | 18     | 5   |
| 38951 | 7/64               | 65     | 20     | 10  |
| 38952 | 1/8                | 75     | 25     | 20  |
| 38953 | 9/64               | 85     | 28     | 25  |
| 38954 | 5/32               | 95     | 32     | 40  |
| 38955 | 3/16               | 105    | 34     | 80  |
| 38956 | 7/32               | 110    | 36     | 120 |
| 38957 | 1/4                | 115    | 38     | 200 |
| 38958 | 5/16               | 155    | 55     |     |
| 38959 | 3/8                |        |        |     |
| 38960 | 1/2                |        |        |     |



SERIE LARGA / LONG PATTERN / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ДЛИННЫЙ

MM

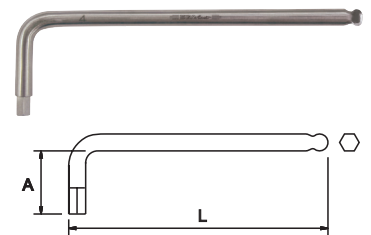
| COD.  | AF <sup>mm</sup> | L (mm) | A (mm) | g   |
|-------|------------------|--------|--------|-----|
| 38048 | 2,5              | 105    | 18     | 10  |
| 38049 | 3                | 110    | 20     | 20  |
| 38206 | 3,5              | 125    | 25     | 30  |
| 38050 | 4                | 120    | 28     | 50  |
| 38051 | 5                | 130    | 32     | 70  |
| 38052 | 6                | 145    | 34     | 100 |
| 38053 | 7                | 155    | 36     | 150 |
| 38054 | 8                | 160    | 38     | 180 |
| 38055 | 9                | 175    | 40     | 250 |
| 38056 | 10               | 180    | 42     | 290 |
| 38057 | 11               | 190    | 45     |     |
| 38058 | 12               | 200    |        |     |



BOLA SERIE LARGA / LONG PATTERN BALLPOINT / SÉRIE LONGUE À TÊTE SPHÉRIQUE / KUGELKOPF- INBUSSCHLÜSSEL / SERIE LUNGA CON TESTA SFERICA / ESFERICAS, SERIE LONGA / ДЛИННЫЙ С ШАРОВОЙ ГОЛОВКОЙ

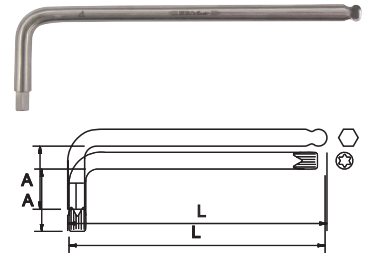
MM

| COD.  | AF <sup>mm</sup> | L (mm) | A (mm) | g   |
|-------|------------------|--------|--------|-----|
| 38640 | 1,5              | 92     | 16     | 6   |
| 38641 | 2                | 102    | 18     | 7   |
| 38642 | 2,5              | 114    | 21     | 14  |
| 38643 | 3                | 129    | 23     | 20  |
| 38659 | 3,5              | 140    | 26     | 24  |
| 38644 | 4                | 144    | 29     | 38  |
| 38645 | 5                | 165    | 33     | 50  |
| 38646 | 5,5              | 185    | 38     | 60  |
| 38647 | 6                | 196    | 41     | 100 |
| 38660 | 7                | 208    | 44     | 140 |
| 38648 | 8                | 219    | 47     | 150 |
| 38661 | 9                | 234    | 50     | 160 |
| 38649 | 10               | 247    | 53     | 170 |
| 38662 | 11               | 262    | 57     | 210 |
| 38663 | 12               | 294    | 70     | 380 |
| 38664 | 14               | 337    | 80     | 560 |
| 38665 | 17               |        |        |     |



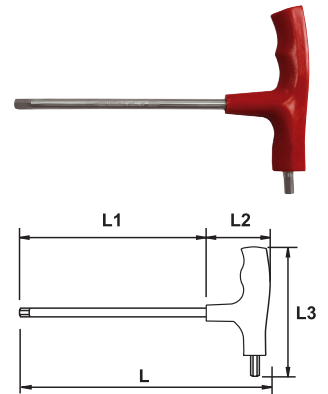
## INCH

| COD.  | AF <sup>inch</sup> | L (mm) | A (mm) | g   |
|-------|--------------------|--------|--------|-----|
| 38618 | 1/16               | 90     | 14     |     |
| 38965 | 5/64               | 100    | 16     | 10  |
| 38966 | 3/32               | 110    | 18     |     |
| 38967 | 7/64               | 130    | 20     | 15  |
| 38968 | 1/8                |        |        |     |
| 38969 | 9/64               |        |        | 20  |
| 38970 | 5/32               | 145    | 25     |     |
| 38971 | 3/16               | 160    | 28     | 40  |
| 38972 | 7/32               | 185    | 32     | 50  |
| 38973 | 1/4                | 195    | 34     | 75  |
| 38974 | 5/16               | 210    | 36     | 150 |
| 38975 | 3/8                | 230    | 38     | 220 |
| 38976 | 1/2                | 290    | 55     | 350 |



## CON MANGO EN T / T-HANDLE / AVEC POIGNÉE EN T / T-GRIFF / CON IMPUGNATURA A T / COM CABO EM T / T-РУЧКА

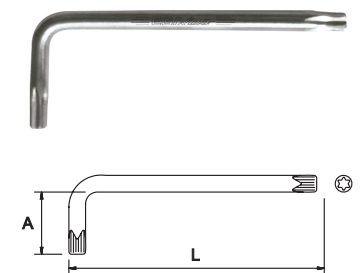
| COD.  | mm  | L (mm) | L1 (mm) | L2 (mm) | L3 (mm) | g   |
|-------|-----|--------|---------|---------|---------|-----|
| 38630 | 2,5 |        |         |         |         | 35  |
| 38631 | 3   |        |         |         |         | 40  |
| 38632 | 4   | 175    | 115     |         |         | 50  |
| 38639 | 5   |        |         |         |         | 60  |
| 38633 | 5,5 |        |         |         |         | 75  |
| 38634 | 6   |        |         | 60      | 110     | 100 |
| 38635 | 7   | 185    | 125     |         |         | 120 |
| 38636 | 8   |        |         |         |         | 135 |
| 38637 | 9   |        |         |         |         | 155 |
| 38638 | 10  |        |         |         |         | 180 |



## TORX®\*



## STANDARD

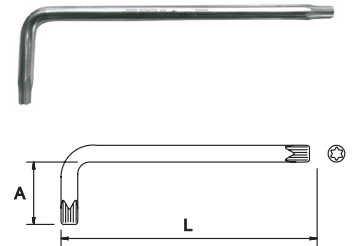
| COD.  |      | L (mm) | A (mm) | g   |
|-------|------|--------|--------|-----|
| 38848 | T-6  | 36     | 13     | 2,2 |
| 38849 | T-7  | 38     | 14     | 2,4 |
| 38850 | T-8  | 40     | 15     | 2,8 |
| 38851 | T-9  | 43     | 16     | 3,1 |
| 38852 | T-10 | 47     | 18     | 3,8 |
| 38853 | T-15 | 54     | 20     | 6   |
| 38854 | T-20 | 64     | 22     | 8   |
| 38855 | T-25 | 70     | 25     | 10  |
| 38856 | T-27 | 79     | 26     | 17  |
| 38857 | T-30 | 89     | 32     | 23  |
| 38858 | T-35 | 93     | 34     | 32  |
| 38859 | T-40 | 98     | 37     | 44  |
| 38860 | T-45 | 108    | 41     | 55  |
| 38861 | T-50 | 123    | 45     | 70  |



\* Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US) / \*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark) / \*Pour vis TORX® (Marque enregistrée par Acument Intellectual Properties, LLC, Troy, Mich., US)

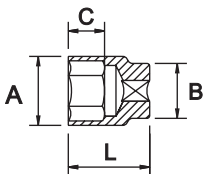
**SERIE LARGA / LONG PATTERN / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ДЛИННЫЙ**



| COD.  |  | L (mm) | A (mm) |  |
|-------|-----------------------------------------------------------------------------------|--------|--------|------------------------------------------------------------------------------------|
| 38862 | T-6                                                                               | 54     | 13     | 3                                                                                  |
| 38863 | T-7                                                                               | 58     | 14     | 3,3                                                                                |
| 38864 | T-8                                                                               | 61     | 15     | 3,8                                                                                |
| 38865 | T-9                                                                               | 63     | 16     | 4,2                                                                                |
| 38866 | T-10                                                                              | 68     | 18     | 5                                                                                  |
| 38867 | T-15                                                                              | 79     | 20     | 8                                                                                  |
| 38868 | T-20                                                                              | 90     | 22     | 11                                                                                 |
| 38869 | T-25                                                                              | 98     | 25     | 13                                                                                 |
| 38870 | T-27                                                                              | 108    | 26     | 22                                                                                 |
| 38871 | T-30                                                                              | 117    | 32     | 28                                                                                 |
| 38872 | T-35                                                                              | 122    | 34     | 39                                                                                 |
| 38873 | T-40                                                                              | 128    | 37     | 55                                                                                 |
| 38874 | T-45                                                                              | 147    | 41     | 70                                                                                 |
| 38875 | T-50                                                                              | 160    | 45     | 85                                                                                 |



**LLAVES DE VASO / SOCKET WRENCHES / DOUILLES / STECKSCHLÜSSEL / BUSSOLE DOPPEN / CHAVES DE CAIXA / ГОЛОВКИ**

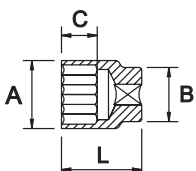
- 1/4"
- STANDARD
- MM
- 6 PT.





| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) | Pt |  |
|-------|-------------------------------------------------------------------------------------|--------|--------|--------|--------|----|---------------------------------------------------------------------------------------|
| 38235 | 4                                                                                   | 23     | 7      | 12     | 15     | 6  | 20                                                                                    |
| 38236 | 5                                                                                   |        | 8      |        |        |    |                                                                                       |
| 38237 | 6                                                                                   |        | 10     |        |        |    |                                                                                       |
| 38238 | 7                                                                                   |        | 12     |        |        |    |                                                                                       |
| 38239 | 8                                                                                   |        | 15     |        |        |    |                                                                                       |
| 38240 | 9                                                                                   | 25     | 15     | 17     | 17     | 40 |                                                                                       |
| 38241 | 10                                                                                  |        | 15     |        |        |    |                                                                                       |
| 38242 | 11                                                                                  |        | 17     |        |        |    |                                                                                       |
| 38243 | 12                                                                                  |        | 17     |        |        |    |                                                                                       |
| 38244 | 13                                                                                  |        | 19     |        |        |    |                                                                                       |
| 38245 | 14                                                                                  | 20     | 20     | 50     |        |    |                                                                                       |



**12 PT.**



| COD.  |  | L (mm) | A (mm) | B (mm) | C (mm) | Pt |  |
|-------|-------------------------------------------------------------------------------------|--------|--------|--------|--------|----|---------------------------------------------------------------------------------------|
| 38403 | 4                                                                                   | 23     | 7      | 12     | 15     | 12 | 20                                                                                    |
| 38404 | 5                                                                                   |        | 8      |        |        |    |                                                                                       |
| 38405 | 6                                                                                   |        | 10     |        |        |    |                                                                                       |
| 38406 | 7                                                                                   |        | 12     |        |        |    |                                                                                       |
| 38407 | 8                                                                                   |        | 15     |        |        |    |                                                                                       |
| 38408 | 9                                                                                   | 15     | 15     | 30     |        |    |                                                                                       |

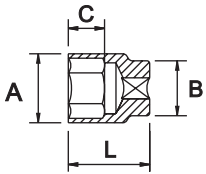


■ 1/4"

| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g  |    |
|-------|-------|--------|--------|--------|--------|----|----|----|
| 38409 | 10    | 23     | 15     | 15     | 15     | 12 | 30 |    |
| 38410 | 11    | 25     | 17     | 17     | 17     |    | 40 |    |
| 38411 | 12    |        | 19     | 19     |        |    | 20 | 50 |
| 38412 | 13    |        |        |        |        |    |    |    |
| 38413 | 14    |        |        |        |        |    |    |    |

■ INCH

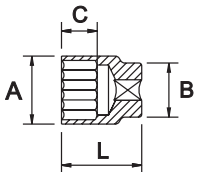
■ 6 PT.



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g  |
|-------|---------|--------|--------|--------|--------|----|----|
| 38246 | 3/16    | 23     | 9      | 12     | 15     | 6  | 20 |
| 38247 | 7/32    |        | 10     |        |        |    |    |
| 38248 | 1/4     |        |        |        |        |    | 12 |
| 38249 | 5/16    |        | 15     | 15     |        |    | 30 |
| 38250 | 3/8     |        | 17     | 17     |        |    | 40 |
| 38251 | 7/16    | 25     | 19     | 19     | 17     | 50 |    |
| 38252 | 1/2     |        | 21     | 21     |        |    |    |
| 38253 | 9/16    |        |        |        |        |    |    |



■ 12 PT.



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g  |
|-------|---------|--------|--------|--------|--------|----|----|
| 38414 | 3/16    | 23     | 9      | 12     | 15     | 12 | 20 |
| 38415 | 7/32    |        | 10     |        |        |    |    |
| 38416 | 1/4     |        |        |        |        |    | 12 |
| 38417 | 5/16    |        | 15     | 15     |        |    | 30 |
| 38418 | 3/8     |        | 17     | 17     |        |    | 40 |
| 38419 | 7/16    | 25     | 19     | 19     | 17     | 50 |    |
| 38420 | 1/2     |        | 21     | 21     |        |    |    |
| 38421 | 9/16    |        |        |        |        |    |    |

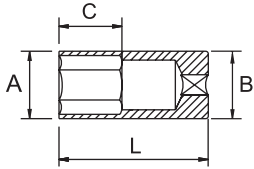


41

**HERRAMIENTA INOX**  
**INOX (STAINLESS STEEL) TOOLS**  
**OUTILLAGE INOX**  
**INOX WERKZEUGE**  
**UTENSILI INOX**  
**FERRAMENTA INOX**  
**ИНСТРУМЕНТ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ**



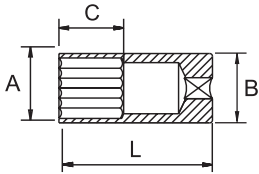
- 1/4"
- SERIE LARGA / LONG PATTERN / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ДЛИННЫЙ
- MM
- 6 PT.



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g  |    |
|-------|-------|--------|--------|--------|--------|----|----|----|
| 38254 | 4     | 50     | 12     | 12     | 13     | 6  | 30 |    |
| 38255 | 5     |        |        |        |        |    |    |    |
| 38256 | 6     |        |        |        |        |    |    |    |
| 38257 | 7     |        |        |        |        |    |    |    |
| 38258 | 8     |        | 15     | 15     |        |    |    | 40 |
| 38259 | 9     |        |        |        |        |    |    |    |
| 38260 | 10    |        |        |        |        |    |    |    |
| 38261 | 11    |        |        |        |        |    |    |    |
| 38262 | 12    |        |        |        |        |    |    |    |
| 38204 | 13    |        |        |        |        |    |    |    |
| 38263 | 14    | 21     | 21     | 80     |        |    |    |    |



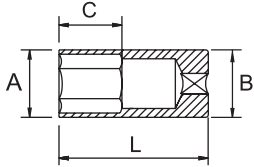
- 12 PT.



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g  |    |
|-------|-------|--------|--------|--------|--------|----|----|----|
| 38422 | 4     | 50     | 12     | 12     | 13     | 12 | 30 |    |
| 38423 | 5     |        |        |        |        |    |    |    |
| 38424 | 6     |        |        |        |        |    |    |    |
| 38425 | 7     |        |        |        |        |    |    |    |
| 38426 | 8     |        | 15     | 15     |        |    |    | 40 |
| 38427 | 9     |        |        |        |        |    |    |    |
| 38428 | 10    |        |        |        |        |    |    |    |
| 38429 | 11    |        |        |        |        |    |    |    |
| 38430 | 12    |        |        |        |        |    |    |    |
| 38431 | 13    |        |        |        |        |    |    |    |
| 38432 | 14    | 21     | 21     | 80     |        |    |    |    |



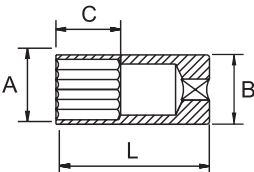
- 1/4"
- INCH
- 6 PT.



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g  |
|-------|---------|--------|--------|--------|--------|----|----|
| 38264 | 3/16    | 50     | 12     | 12     | 13     | 6  | 30 |
| 38265 | 7/32    |        |        |        |        |    |    |
| 38266 | 1/4     |        |        |        |        |    |    |
| 38267 | 5/16    |        |        |        |        |    |    |
| 38268 | 3/8     |        |        |        |        |    |    |
| 38269 | 7/16    |        |        |        |        |    |    |
| 38270 | 1/2     | 19     | 19     | 60     |        |    |    |
| 38271 | 9/16    | 21     | 21     | 90     |        |    |    |



- 12 PT.



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g  |
|-------|---------|--------|--------|--------|--------|----|----|
| 38433 | 3/16    | 50     | 12     | 12     | 13     | 12 | 30 |
| 38434 | 7/32    |        |        |        |        |    |    |
| 38435 | 1/4     |        |        |        |        |    |    |
| 38436 | 5/16    |        |        |        |        |    |    |
| 38437 | 3/8     |        |        |        |        |    |    |
| 38438 | 7/16    |        |        |        |        |    |    |
| 38439 | 1/2     | 19     | 19     | 60     |        |    |    |
| 38440 | 9/16    | 21     | 21     | 90     |        |    |    |



**LLAVE DE CARRACA REVERSIBLE / REVERSIBLE RATCHET HANDLE / CLÉ À CLIQUET RÉVERSIBLE / UMSCHALTKNARRE / CHIAVE A CRICCO REVERSIBILE / ROQUETE REVERSIVEL / РЕВЕРСИВНАЯ ТРЕЩЕТКА**



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | g   | Icon |
|-------|---------|--------|--------|--------|--------|-----|------|
| 38203 | 1/4     | 200    | 32     | 15     | 27     | 260 | 1    |



- ALARGADERA / EXTENSION / RALLONGE / VERLÄNGERUNG / PROLUNGA / EXTENSAO / УДЛИНИТЕЛЬ

| COD.  | AF inch | L (inch) | g  | Icon |
|-------|---------|----------|----|------|
| 38231 | 1/4     | 3        | 60 | 1    |



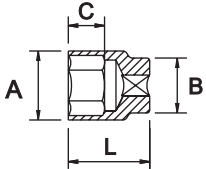


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**HERRAMIENTA INOX**  
**INOX (STAINLESS STEEL) TOOLS**  
**OUTILLAGE INOX**  
**INOX WERKZEUGE**  
**UTENSILI INOX**  
**FERRAMENTA INOX**  
**ИНСТРУМЕНТ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ**



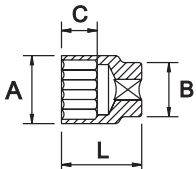
- 3/8"
- STANDARD
- MM
- 6 PT.



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   |
|-------|-------|--------|--------|--------|--------|----|-----|
| 38274 | 6     |        | 11     |        |        |    | 40  |
| 38275 | 7     |        | 12     |        |        |    |     |
| 38276 | 8     |        | 13     |        |        |    |     |
| 38277 | 9     |        | 14     |        |        |    | 50  |
| 38278 | 10    | 31     | 15     | 21     |        |    |     |
| 38279 | 11    |        | 16     |        |        |    |     |
| 38280 | 12    |        | 17     |        | 20     |    | 70  |
| 38281 | 13    |        | 18     |        |        | 6  |     |
| 38282 | 14    |        | 21     |        |        |    |     |
| 38283 | 15    |        |        |        |        |    | 90  |
| 38284 | 16    | 34     | 22     | 22     |        |    |     |
| 38285 | 17    |        | 24     | 24     |        |    | 100 |
| 38286 | 19    |        | 26     |        |        |    | 110 |
| 38287 | 20    | 38     | 27     | 25     |        |    | 120 |
| 38288 | 22    |        | 30     |        | 22     |    |     |



- 12 PT.



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   |
|-------|-------|--------|--------|--------|--------|----|-----|
| 38443 | 6     |        | 11     |        |        |    | 40  |
| 38444 | 7     |        | 12     |        |        |    |     |
| 38445 | 8     |        | 13     |        |        |    |     |
| 38446 | 9     |        | 14     |        |        |    | 50  |
| 38447 | 10    | 31     | 15     | 21     |        |    |     |
| 38448 | 11    |        | 16     |        |        |    |     |
| 38449 | 12    |        | 17     |        | 20     |    | 70  |
| 38450 | 13    |        | 18     |        |        | 12 |     |
| 38451 | 14    |        | 21     |        |        |    |     |
| 38452 | 15    |        |        |        |        |    | 90  |
| 38453 | 16    | 34     | 22     | 22     |        |    |     |
| 38454 | 17    |        | 24     | 24     |        |    | 100 |
| 38455 | 19    |        | 26     |        |        |    | 110 |
| 38456 | 20    | 38     | 27     | 25     |        |    | 120 |
| 38457 | 22    |        | 30     |        | 22     |    |     |

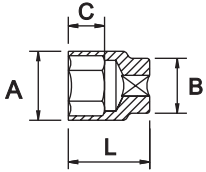


# 41

**HERRAMIENTA INOX**  
**INOX (STAINLESS STEEL) TOOLS**  
**OUTILLAGE INOX**  
**INOX WERKZEUGE**  
**UTENSILI INOX**  
**FERRAMENTA INOX**  
**ИНСТРУМЕНТ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ**



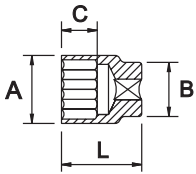
- 3/8"
- INCH
- 6 PT.



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   |
|-------|---------|--------|--------|--------|--------|----|-----|
| 38289 | 1/4     |        | 11     |        |        |    | 30  |
| 38290 | 5/16    |        | 13     |        |        |    | 40  |
| 38291 | 3/8     | 31     | 15     | 21     |        |    | 50  |
| 38292 | 7/16    |        | 16     |        |        |    | 70  |
| 38293 | 1/2     |        | 18     |        | 20     |    | 90  |
| 38294 | 9/16    |        | 21     |        |        | 6  | 100 |
| 38295 | 5/8     |        | 22     | 22     |        |    | 110 |
| 38296 | 11/16   | 34     | 24     | 24     |        |    | 120 |
| 38297 | 3/4     |        | 26     |        |        |    | 130 |
| 38298 | 13/16   | 38     | 28     | 25     | 22     |    |     |
| 38616 | 1       | 40     | 36     |        | 24     |    |     |



- 12 PT.



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   |
|-------|---------|--------|--------|--------|--------|----|-----|
| 38458 | 1/4     |        | 11     |        |        |    | 30  |
| 38459 | 5/16    |        | 13     |        |        |    | 40  |
| 38460 | 3/8     | 31     | 15     | 21     |        |    | 50  |
| 38461 | 7/16    |        | 16     |        |        |    | 70  |
| 38462 | 1/2     |        | 18     |        | 20     |    | 90  |
| 38463 | 9/16    |        | 21     |        |        | 12 | 100 |
| 38464 | 5/8     |        | 22     | 22     |        |    | 110 |
| 38465 | 11/16   | 34     | 24     | 24     |        |    | 120 |
| 38466 | 3/4     |        | 26     |        |        |    | 130 |
| 38467 | 13/16   | 38     | 28     | 25     | 22     |    |     |
| 38468 | 1       | 40     | 36     |        | 24     |    |     |



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**HERRAMIENTA INOX**  
**INOX (STAINLESS STEEL) TOOLS**  
**OUTILLAGE INOX**  
**INOX WERKZEUGE**  
**UTENSILI INOX**  
**FERRAMENTA INOX**  
**ИНСТРУМЕНТ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ**

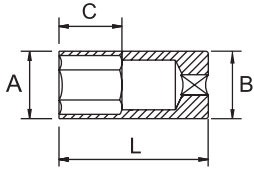


■ 3/8"

■ SERIE LARGA / LONG PATTERN / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ДЛИННЫЙ

■ MM

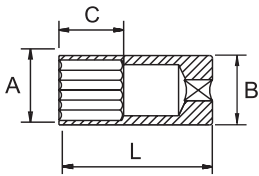
■ 6 PT.



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   |
|-------|-------|--------|--------|--------|--------|----|-----|
| 38301 | 6     | 60     | 11     | 21     |        |    |     |
| 38302 | 7     |        | 12     |        |        |    |     |
| 38303 | 8     |        | 13     |        |        |    |     |
| 38304 | 9     |        | 14     |        |        |    |     |
| 38305 | 10    |        | 15     |        |        |    |     |
| 38306 | 11    | 65     | 16     |        |        |    | 110 |
| 38307 | 12    |        | 17     |        |        |    |     |
| 38308 | 13    |        | 18     |        |        |    |     |
| 38309 | 14    | 70     | 21     |        |        |    |     |
| 38310 | 15    |        | 22     |        |        |    |     |
| 38311 | 16    |        | 22     |        |        |    |     |
| 38312 | 17    |        | 24     |        |        |    |     |
| 38313 | 19    |        | 26     |        |        |    |     |
| 38314 | 20    |        | 27     |        |        |    |     |
| 38315 | 22    |        | 30     |        |        |    |     |



■ 12 PT.



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   |
|-------|-------|--------|--------|--------|--------|----|-----|
| 38470 | 6     | 60     | 11     | 21     |        |    |     |
| 38471 | 7     |        | 12     |        |        |    |     |
| 38472 | 8     |        | 13     |        |        |    |     |
| 38473 | 9     |        | 14     |        |        |    |     |
| 38474 | 10    |        | 15     |        |        |    |     |
| 38475 | 11    | 65     | 16     |        |        |    | 110 |
| 38476 | 12    |        | 17     |        |        |    |     |
| 38477 | 13    |        | 18     |        |        |    |     |
| 38478 | 14    | 70     | 21     |        |        |    |     |
| 38479 | 15    |        | 22     |        |        |    |     |
| 38480 | 16    |        | 22     |        |        |    |     |
| 38481 | 17    |        | 24     |        |        |    |     |
| 38482 | 19    |        | 26     |        |        |    |     |
| 38483 | 20    |        | 27     |        |        |    |     |
| 38484 | 22    |        | 30     |        |        |    |     |

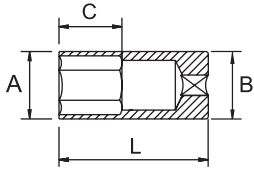


# 41

**HERRAMIENTA INOX**  
**INOX (STAINLESS STEEL) TOOLS**  
**OUTILLAGE INOX**  
**INOX WERKZEUGE**  
**UTENSILI INOX**  
**FERRAMENTA INOX**  
**ИНСТРУМЕНТ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ**



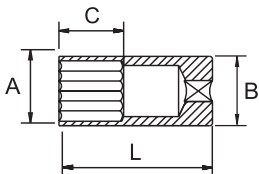
- 3/8"
- INCH
- 6 PT.



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   |
|-------|---------|--------|--------|--------|--------|----|-----|
| 38316 | 1/4     | 60     | 11     | 21     |        |    |     |
| 38317 | 5/16    |        | 13     |        |        |    |     |
| 38318 | 3/8     |        | 15     |        |        |    |     |
| 38319 | 7/16    | 65     | 16     |        |        |    | 110 |
| 38320 | 1/2     |        | 18     |        |        |    |     |
| 38321 | 9/16    |        | 21     |        |        |    |     |
| 38322 | 5/8     | 70     | 22     | 22     |        | 6  | 120 |
| 38323 | 11/16   |        | 24     | 24     |        |    | 140 |
| 38324 | 3/4     |        | 26     |        |        |    | 160 |
| 38325 | 13/16   | 70     | 28     | 25     | 26     |    | 200 |
| 38619 | 1       |        | 36     |        |        |    | 220 |



- 12 PT.



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   |
|-------|---------|--------|--------|--------|--------|----|-----|
| 38485 | 1/4     | 60     | 11     | 21     |        |    |     |
| 38486 | 5/16    |        | 13     |        |        |    |     |
| 38487 | 3/8     |        | 15     |        |        |    |     |
| 38488 | 7/16    | 65     | 16     |        |        |    | 110 |
| 38489 | 1/2     |        | 18     |        |        |    |     |
| 38490 | 9/16    |        | 21     |        |        |    |     |
| 38491 | 5/8     | 70     | 22     | 22     |        | 12 | 120 |
| 38492 | 11/16   |        | 24     | 24     |        |    | 140 |
| 38493 | 3/4     |        | 26     |        |        |    | 160 |
| 38494 | 13/16   | 70     | 28     | 25     | 26     |    | 200 |
| 38620 | 1       |        | 36     |        |        |    | 220 |

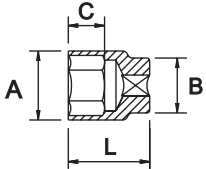


# 41

**HERRAMIENTA INOX**  
**INOX (STAINLESS STEEL) TOOLS**  
**OUTILLAGE INOX**  
**INOX WERKZEUGE**  
**UTENSILI INOX**  
**FERRAMENTA INOX**  
**ИНСТРУМЕНТ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ**



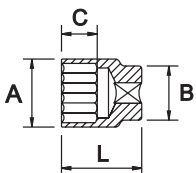
- 1/2"
- STANDARD
- MM
- 6 PT.



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   |
|-------|-------|--------|--------|--------|--------|----|-----|
| 38326 | 6     | 38     | 12     | 24     | 23     | 6  | 40  |
| 38327 | 7     |        | 13     |        |        |    | 50  |
| 38328 | 8     |        | 14     |        |        |    | 60  |
| 38329 | 9     |        | 15     |        |        |    | 70  |
| 38330 | 10    |        | 16     |        |        |    | 80  |
| 38331 | 11    |        | 18     |        |        |    | 90  |
| 38332 | 12    |        | 19     |        |        |    | 100 |
| 38187 | 13    |        | 20     |        |        |    | 110 |
| 38333 | 14    |        | 21     |        |        |    | 150 |
| 38334 | 15    |        | 24     |        |        |    | 160 |
| 38335 | 16    | 25     | 170    |        |        |    |     |
| 38188 | 17    | 26     | 180    |        |        |    |     |
| 38336 | 18    | 27     | 190    |        |        |    |     |
| 38189 | 19    | 28     | 200    |        |        |    |     |
| 38337 | 20    | 29     | 230    |        |        |    |     |
| 38338 | 21    | 30     | 26     | 300    |        |    |     |
| 38190 | 22    | 32     | 37     | 300    |        |    |     |
| 38339 | 23    | 33     | 38     | 300    |        |    |     |
| 38198 | 24    | 36     | 28     | 300    |        |    |     |
| 38340 | 25    | 37     | 29     | 300    |        |    |     |
| 38341 | 26    | 38     | 30     | 300    |        |    |     |
| 38199 | 27    | 40     | 40     | 31     | 300    |    |     |
| 38342 | 28    | 43     | 50     | 37     | 300    |    |     |
| 38343 | 29    | 43     | 50     | 37     | 300    |    |     |
| 38221 | 30    | 43     | 50     | 37     | 300    |    |     |
| 38222 | 32    | 43     | 50     | 37     | 300    |    |     |
| 38223 | 36    | 43     | 50     | 37     | 300    |    |     |



■ 12 PT.



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g  |
|-------|-------|--------|--------|--------|--------|----|----|
| 38495 | 6     | 38     | 12     | 24     | 23     | 12 | 60 |
| 38496 | 7     |        | 13     |        |        |    | 55 |
| 38497 | 8     |        | 14     |        |        |    | 58 |
| 38498 | 9     |        | 15     |        |        |    | 60 |
| 38499 | 10    |        | 16     |        |        |    | 60 |
| 38500 | 11    |        | 18     |        |        |    | 60 |
| 38501 | 12    |        | 19     |        |        |    | 60 |
| 38502 | 13    |        | 20     |        |        |    | 60 |
| 38503 | 14    |        | 21     |        |        |    | 60 |
| 38504 | 15    |        | 21     |        |        |    | 60 |



# 41

**HERRAMIENTA INOX**  
**INOX (STAINLESS STEEL) TOOLS**  
**OUTILLAGE INOX**  
**INOX WERKZEUGE**  
**UTENSILI INOX**  
**FERRAMENTA INOX**  
**ИНСТРУМЕНТ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ**

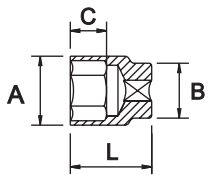


1/2"

| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   |
|-------|-------|--------|--------|--------|--------|----|-----|
| 38505 | 16    | 38     | 24     | 24     | 23     | 12 | 70  |
| 38506 | 17    |        | 25     | 25     |        |    | 80  |
| 38507 | 18    |        | 26     | 100    |        |    |     |
| 38508 | 19    |        | 27     | 75     |        |    |     |
| 38509 | 20    |        | 28     | 80     |        |    |     |
| 38510 | 21    |        | 29     | 26     |        |    | 110 |
| 38511 | 22    |        | 30     | 150    |        |    |     |
| 38512 | 23    |        | 32     | 160    |        |    |     |
| 38513 | 24    |        | 33     | 170    |        |    |     |
| 38514 | 25    |        | 36     | 28     |        |    | 190 |
| 38515 | 26    | 40     | 37     | 29     | 23     | 12 | 200 |
| 38516 | 27    |        | 38     | 30     |        |    | 230 |
| 38517 | 28    |        | 40     | 31     |        |    | 200 |
| 38518 | 29    |        | 43     | 32     |        |    | 230 |
| 38519 | 30    |        | 50     | 37     |        |    | 300 |
| 38520 | 32    |        |        |        |        |    |     |
| 38521 | 36    | 43     | 50     | 37     |        |    | 300 |

INCH

6 PT.



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   |  |  |
|-------|---------|--------|--------|--------|--------|----|-----|--|--|
| 38344 | 1/4     | 38     | 12     | 24     | 23     | 6  | 40  |  |  |
| 38345 | 5/16    |        | 13     |        |        |    | 50  |  |  |
| 38346 | 3/8     |        | 15     |        |        |    | 60  |  |  |
| 38347 | 7/16    |        | 16     |        |        |    | 110 |  |  |
| 38348 | 1/2     |        | 19     |        |        |    | 80  |  |  |
| 38349 | 9/16    |        | 20     |        |        |    | 150 |  |  |
| 38350 | 19/32   |        | 22     |        |        |    | 160 |  |  |
| 38351 | 5/8     |        | 24     |        |        |    | 170 |  |  |
| 38352 | 11/16   |        | 25     |        |        |    | 190 |  |  |
| 38353 | 3/4     |        | 27     |        |        |    | 230 |  |  |
| 38354 | 25/32   | 28     | 25     | 90     |        |    |     |  |  |
| 38355 | 13/16   | 29     | 110    |        |        |    |     |  |  |
| 38356 | 7/8     | 30     | 150    |        |        |    |     |  |  |
| 38357 | 15/16   | 33     | 26     | 160    |        |    |     |  |  |
| 38358 | 1       | 35     | 28     | 170    |        |    |     |  |  |
| 38359 | 1.1/16  | 36     | 29     | 190    |        |    |     |  |  |
| 38360 | 1.1/8   | 40     | 40     | 31     | 23     | 12 | 230 |  |  |
| 38361 | 1.3/16  |        | 43     | 32     |        |    | 300 |  |  |
| 38362 | 1.1/4   |        | 50     | 37     |        |    |     |  |  |
| 38363 | 1.7/16  |        |        |        |        |    |     |  |  |



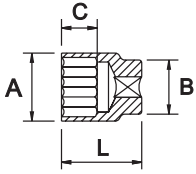
41

**HERRAMIENTA INOX**  
**INOX (STAINLESS STEEL) TOOLS**  
**OUTILLAGE INOX**  
**INOX WERKZEUGE**  
**UTENSILI INOX**  
**FERRAMENTA INOX**  
**ИНСТРУМЕНТ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ**



■ 1/2"

■ 12 PT.



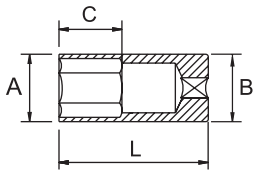
| COD.  | AF <sup>±</sup> inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   |
|-------|----------------------|--------|--------|--------|--------|----|-----|
| 38522 | 1/4                  |        | 12     |        |        |    | 40  |
| 38523 | 5/16                 |        | 13     |        |        |    | 50  |
| 38524 | 3/8                  |        | 15     |        |        |    |     |
| 38525 | 7/16                 |        | 16     |        |        |    | 60  |
| 38526 | 1/2                  |        | 19     | 24     |        |    |     |
| 38527 | 9/16                 |        | 20     |        |        |    |     |
| 38528 | 19/32                |        | 22     |        |        |    | 70  |
| 38529 | 5/8                  | 38     | 24     |        |        |    |     |
| 38530 | 11/16                |        | 25     |        |        |    | 80  |
| 38531 | 3/4                  |        | 27     |        |        | 12 |     |
| 38532 | 25/32                |        | 28     | 25     | 23     |    | 90  |
| 38533 | 13/16                |        | 29     |        |        |    |     |
| 38534 | 7/8                  |        | 30     |        |        |    | 110 |
| 38535 | 15/16                |        | 33     | 26     |        |    | 150 |
| 38536 | 1                    |        | 35     | 28     |        |    | 160 |
| 38537 | 1.1/16               |        | 36     | 29     |        |    | 170 |
| 38538 | 1.1/8                | 40     | 40     | 31     |        |    | 190 |
| 38539 | 1.3/16               |        |        |        |        |    |     |
| 38540 | 1.1/4                |        | 43     | 32     |        |    | 230 |
| 38541 | 1.7/16               | 43     | 50     | 37     |        |    | 300 |



■ SERIE LARGA / LONG PATTERN / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ДЛИННЫЙ

■ MM

■ 6 PT.



| COD.  | AF <sup>±</sup> mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   |
|-------|--------------------|--------|--------|--------|--------|----|-----|
| 38364 | 6                  |        | 12     |        |        |    |     |
| 38365 | 7                  |        | 13     |        |        |    |     |
| 38366 | 8                  |        | 14     |        |        |    |     |
| 38367 | 9                  |        | 15     |        |        |    |     |
| 38368 | 10                 |        | 16     |        |        |    | 160 |
| 38369 | 11                 |        | 18     | 24     |        |    |     |
| 38370 | 12                 |        | 19     |        | 29     |    |     |
| 38371 | 13                 |        | 20     |        |        | 6  |     |
| 38372 | 14                 | 85     | 21     |        |        |    |     |
| 38373 | 15                 |        | 24     |        |        |    | 170 |
| 38374 | 16                 |        | 25     | 25     |        |    | 180 |
| 38224 | 17                 |        | 26     |        |        |    | 190 |
| 38375 | 18                 |        | 27     |        |        |    |     |
| 38205 | 19                 |        | 28     | 26     |        |    | 220 |
| 38376 | 20                 |        | 29     |        | 32     |    |     |
| 38377 | 21                 |        | 30     |        |        |    |     |
| 38225 | 22                 |        |        |        |        |    | 230 |

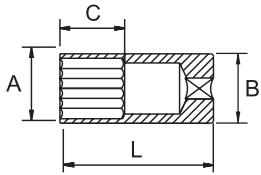


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 If you can't find the item you look for, please ask us in [consulta@egamaster.com](mailto:consulta@egamaster.com) or in [www.egamaster.com](http://www.egamaster.com)  
 Si vous ne trouvez pas l'article que vous désirez, consultez-nous a [consulta@egamaster.com](mailto:consulta@egamaster.com) ou a [www.egamaster.com](http://www.egamaster.com)

## 1/2"

| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   |  |  |
|-------|-------|--------|--------|--------|--------|----|-----|--|--|
| 38378 | 23    | 85     | 32     | 26     | 32     | 6  | 250 |  |  |
| 38226 | 24    |        | 33     | 27     |        |    | 270 |  |  |
| 38379 | 25    |        | 35     | 28     |        |    | 330 |  |  |
| 38380 | 26    |        | 36     | 29     |        |    | 340 |  |  |
| 38227 | 27    |        | 38     | 30     |        |    | 360 |  |  |
| 38381 | 28    |        | 40     | 31     |        |    | 370 |  |  |
| 38382 | 29    |        | 43     | 32     |        |    | 390 |  |  |
| 38228 | 30    |        | 50     | 37     |        |    | 390 |  |  |
| 38229 | 32    |        |        |        |        |    |     |  |  |
| 38230 | 36    |        |        |        |        |    |     |  |  |

## 12 PT.



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt  | g   |
|-------|-------|--------|--------|--------|--------|-----|-----|
| 38542 | 6     | 85     | 12     | 24     | 29     | 12  | 160 |
| 38543 | 7     |        | 13     |        |        |     |     |
| 38544 | 8     |        | 14     |        |        |     |     |
| 38545 | 9     |        | 15     |        |        |     |     |
| 38546 | 10    |        | 16     |        |        |     |     |
| 38547 | 11    |        | 18     |        |        |     |     |
| 38548 | 12    |        | 19     |        |        |     |     |
| 38549 | 13    |        | 20     |        |        |     |     |
| 38550 | 14    |        | 21     |        |        |     |     |
| 38551 | 15    |        | 24     |        |        |     |     |
| 38552 | 16    | 25     | 25     | 32     | 12     | 170 |     |
| 38553 | 17    | 26     | 26     |        |        | 180 |     |
| 38554 | 18    | 27     | 27     |        |        | 190 |     |
| 38555 | 19    | 28     | 28     |        |        | 220 |     |
| 38556 | 20    | 29     | 29     |        |        | 230 |     |
| 38557 | 21    | 30     | 30     |        |        | 250 |     |
| 38558 | 22    | 32     | 32     |        |        | 270 |     |
| 38559 | 23    | 33     | 27     |        |        | 330 |     |
| 38560 | 24    | 35     | 28     |        |        | 340 |     |
| 38561 | 25    | 36     | 29     |        |        | 360 |     |
| 38562 | 26    | 38     | 30     | 370    |        |     |     |
| 38563 | 27    | 40     | 31     | 390    |        |     |     |
| 38564 | 28    | 43     | 32     | 390    |        |     |     |
| 38565 | 29    | 50     | 37     | 390    |        |     |     |
| 38566 | 30    |        |        |        |        |     |     |
| 38567 | 32    |        |        |        |        |     |     |
| 38568 | 36    |        |        |        |        |     |     |



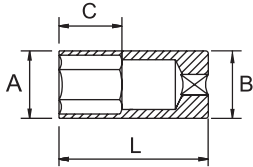


# 41

**HERRAMIENTA INOX**  
**INOX (STAINLESS STEEL) TOOLS**  
**OUTILLAGE INOX**  
**INOX WERKZEUGE**  
**UTENSILI INOX**  
**FERRAMENTA INOX**  
**ИНСТРУМЕНТ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ**



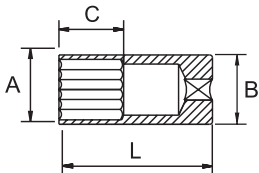
- 1/2"
- INCH
- 6 PT.



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt  | g   |
|-------|---------|--------|--------|--------|--------|-----|-----|
| 38383 | 1/4     | 85     | 12     | 24     | 29     | 6   | 160 |
| 38384 | 5/16    |        | 13     |        |        |     |     |
| 38385 | 3/8     |        | 15     |        |        |     |     |
| 38386 | 7/16    |        | 18     |        |        |     |     |
| 38387 | 1/2     |        | 19     | 26     | 32     | 180 |     |
| 38388 | 9/16    |        | 21     |        |        |     |     |
| 38389 | 19/32   |        | 24     |        |        |     |     |
| 38390 | 5/8     |        | 26     |        |        |     |     |
| 38391 | 11/16   |        | 27     | 26     | 32     | 190 |     |
| 38392 | 3/4     |        | 28     |        |        |     |     |
| 38393 | 25/32   |        | 29     |        |        |     |     |
| 38394 | 13/16   |        | 30     |        |        |     |     |
| 38395 | 7/8     |        | 33     | 26     | 32     | 220 |     |
| 38396 | 15/16   |        | 35     |        |        |     |     |
| 38397 | 1       |        | 36     |        |        |     |     |
| 38398 | 1.1/16  |        | 40     |        |        |     |     |
| 38399 | 1.1/8   |        | 43     | 32     | 32     | 240 |     |
| 38400 | 1.3/16  |        | 43     |        |        |     |     |
| 38401 | 1.1/4   |        | 50     |        |        |     |     |
| 38402 | 1.7/16  |        | 50     |        |        |     |     |



■ 12 PT.



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt  | g   |
|-------|---------|--------|--------|--------|--------|-----|-----|
| 38569 | 1/4     | 85     | 12     | 24     | 29     | 12  | 160 |
| 38570 | 5/16    |        | 13     |        |        |     |     |
| 38571 | 3/8     |        | 15     |        |        |     |     |
| 38572 | 7/16    |        | 18     |        |        |     |     |
| 38573 | 1/2     |        | 19     | 26     | 32     | 180 |     |
| 38574 | 9/16    |        | 21     |        |        |     |     |
| 38575 | 19/32   |        | 24     |        |        |     |     |
| 38576 | 5/8     |        | 26     |        |        |     |     |
| 38577 | 11/16   |        | 27     | 26     | 32     | 190 |     |
| 38578 | 3/4     |        | 28     |        |        |     |     |
| 38579 | 25/32   |        | 29     |        |        |     |     |
| 38580 | 13/16   |        | 30     |        |        |     |     |
| 38581 | 7/8     |        | 33     | 26     | 32     | 220 |     |
| 38582 | 15/16   |        | 35     |        |        |     |     |
| 38583 | 1       |        | 36     |        |        |     |     |
| 38584 | 1.1/16  |        | 40     |        |        |     |     |
| 38585 | 1.1/8   |        | 43     | 32     | 32     | 240 |     |
| 38586 | 1.3/16  |        | 43     |        |        |     |     |
|       |         |        |        |        |        |     | 50  |
|       |         |        |        |        |        |     | 50  |



41

**HERRAMIENTA INOX**  
**INOX (STAINLESS STEEL) TOOLS**  
**OUTILLAGE INOX**  
**INOX WERKZEUGE**  
**UTENSILI INOX**  
**FERRAMENTA INOX**  
**ИНСТРУМЕНТ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ**



1/2"

| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   |
|-------|---------|--------|--------|--------|--------|----|-----|
| 38587 | 1.1/4   |        | 43     | 32     | 32     | 12 | 370 |
| 38588 | 1.7/16  | 85     | 50     | 37     | 32     | 12 | 390 |

**LLAVE DE CARRACA REVERSIBLE / REVERSIBLE RATCHET HANDLE / CLÉ À CLIQUET RÉVERSIBLE / UMSCHALTKNARRE / CHIAVE A CRICCO REVERSIBILE / ROQUETE REVERSIVEL / РЕВЕРСИВНАЯ ТРЕЩЕТКА**



| COD.  | AF inch | A (mm) | B (mm) | C (mm) | L (mm) | g   |
|-------|---------|--------|--------|--------|--------|-----|
| 38200 | 1/2     | 40     | 20     | 41     | 250    | 550 |



**ALARGADERA / EXTENSION / RALLONGE / VERLANGERUNG / PROLUNGA / EXTENCAO / УДЛИНИТЕЛЬ**

| COD.  | AF inch | L (inch) | g   | Icon | Icon |
|-------|---------|----------|-----|------|------|
| 38220 |         | 4        | 350 |      | •    |
| 38218 | 1/2     | 5        | 360 | 5    | -    |
| 38824 |         | 8        | 380 |      |      |
| 38825 |         | 10       | 460 |      |      |



**ARTICULACIÓN UNIVERSAL / UNIVERSAL JOINT / CARDAN UNIVERSEL / KARDANGELN / SNODO CARDANICO / CARDAN UNIVERSAL / ШАРНИР**

| COD.  | AF inch | g   | Icon | Icon |
|-------|---------|-----|------|------|
| 38829 | 1/2     | 170 | 10   | •    |

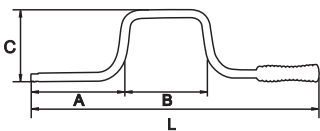


**MANGO CORREDIZO EN "T" / SLIDING "T" HANDLE / POIGNEE COULISSANTE / QUERGRIF / ASTA CON QUADRO SCORREVOLO / CABO "T" CORREDICO / ПОДВИЖНАЯ "Т" РУЧКА**

| COD.  | AF inch | L (mm) | g   | Icon | Icon |
|-------|---------|--------|-----|------|------|
| 38830 | 1/2     | 250    | 330 | 5    | •    |



**BERBIQUÍ / SPEEDER HANDLE / VILLEBREQUIN / KURBEL / LEVA GIROBECCHINO / MANIVELA / КОЛЕНЧАТАЯ РУЧКА**



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | g   | Icon |
|-------|---------|--------|--------|--------|--------|-----|------|
| 38831 | 1/2     | 380    | 135    | 140    | 100    | 500 | 5    |



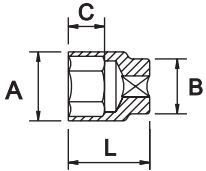
**EGGA Master**  
 ART IN INNOVATION

# 41

**HERRAMIENTA INOX**  
**INOX (STAINLESS STEEL) TOOLS**  
**OUTILLAGE INOX**  
**INOX WERKZEUGE**  
**UTENSILI INOX**  
**FERRAMENTA INOX**  
**ИНСТРУМЕНТ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ**



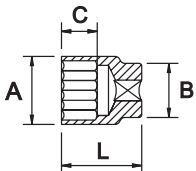
- 3/4"
- STANDARD
- MM
- 6 PT.



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g    |
|-------|-------|--------|--------|--------|--------|----|------|
| 38671 | 17    |        | 28     |        |        |    |      |
| 38672 | 19    |        | 30     |        |        |    |      |
| 38673 | 21    |        | 33     | 36     | 29     |    | 220  |
| 38674 | 22    |        | 34     |        |        |    |      |
| 38675 | 23    |        | 36     |        |        |    |      |
| 38676 | 24    | 49     | 38     | 38     |        |    | 260  |
| 38677 | 26    |        | 39     |        |        |    | 250  |
| 38678 | 27    |        | 40     | 36     | 24     |    | 260  |
| 38679 | 28    |        | 42     |        |        |    |      |
| 38680 | 29    |        | 45     | 38     |        | 6  | 300  |
| 38681 | 30    |        | 45     |        | 29     |    |      |
| 38682 | 32    |        | 50     | 42     | 31     |    | 450  |
| 38683 | 36    | 55     | 50     | 45     | 30     |    | 500  |
| 38684 | 38    |        | 55     |        | 41     |    | 600  |
| 38685 | 41    | 60     | 60     | 48     | 40     |    | 750  |
| 38686 | 46    | 65     | 70     | 48     | 42     |    | 900  |
| 38687 | 50    | 70     | 75     | 55     | 38     |    | 1200 |
| 38688 | 55    | 75     | 80     | 55     | 40     |    | 1700 |
| 38689 | 60    | 80     |        |        |        |    |      |



- 12 PT.



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g    |
|-------|-------|--------|--------|--------|--------|----|------|
| 38709 | 17    |        | 28     |        |        |    |      |
| 38710 | 19    |        | 30     |        |        |    |      |
| 38711 | 21    |        | 33     | 36     | 29     |    | 220  |
| 38712 | 22    |        | 34     |        |        |    |      |
| 38713 | 23    |        | 36     |        |        |    |      |
| 38714 | 24    | 49     | 38     | 38     |        |    | 260  |
| 38715 | 26    |        | 39     |        |        |    | 250  |
| 38716 | 27    |        | 40     | 36     | 24     |    | 260  |
| 38717 | 28    |        | 42     |        |        |    |      |
| 38718 | 29    |        | 45     | 38     |        | 12 | 300  |
| 38719 | 30    |        | 45     |        | 29     |    |      |
| 38720 | 32    |        | 50     | 42     | 31     |    | 450  |
| 38721 | 36    | 55     | 50     | 45     | 30     |    | 500  |
| 38722 | 38    |        | 55     |        | 34     |    | 600  |
| 38723 | 41    | 60     | 60     | 48     | 40     |    | 750  |
| 38724 | 46    | 65     | 70     | 48     | 42     |    | 900  |
| 38725 | 50    | 70     | 75     | 55     | 38     |    | 1250 |
| 38726 | 55    | 75     |        |        |        |    |      |



# 41

**HERRAMIENTA INOX**  
**INOX (STAINLESS STEEL) TOOLS**  
**OUTILLAGE INOX**  
**INOX WERKZEUGE**  
**UTENSILI INOX**  
**FERRAMENTA INOX**  
**ИНСТРУМЕНТ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ**

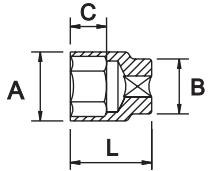


### 3/4"

| COD.         | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g    |
|--------------|-------|--------|--------|--------|--------|----|------|
| <b>38727</b> | 60    | 80     | 85     | 60     | 40     | 12 | 1700 |

### INCH

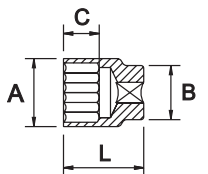
### 6 PT.



| COD.         | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g    |
|--------------|---------|--------|--------|--------|--------|----|------|
| <b>38690</b> | 3/4     |        | 30     |        |        |    |      |
| <b>38691</b> | 13/16   |        | 33     | 36     | 29     |    | 220  |
| <b>38692</b> | 7/8     |        |        |        |        |    |      |
| <b>38693</b> | 15/16   | 49     | 36     |        |        |    |      |
| <b>38694</b> | 1       |        | 37     | 37     |        |    | 240  |
| <b>38695</b> | 1.1/16  |        | 39     | 36     | 24     |    | 250  |
| <b>38696</b> | 1.1/8   |        |        |        |        |    |      |
| <b>38697</b> | 1.3/16  |        | 42     | 38     |        |    | 300  |
| <b>38698</b> | 1.1/4   |        | 45     |        | 29     |    |      |
| <b>38699</b> | 1.7/16  | 55     | 50     | 42     | 31     | 6  | 450  |
| <b>38700</b> | 1.1/2   |        | 52     |        | 30     |    | 500  |
| <b>38701</b> | 1.9/16  | 60     | 55     | 45     | 34     |    | 600  |
| <b>38702</b> | 1.5/8   |        |        |        |        |    |      |
| <b>38703</b> | 1.3/4   | 65     | 60     |        | 40     |    | 750  |
| <b>38704</b> | 1.13/16 |        |        | 48     |        |    |      |
| <b>38705</b> | 1.7/8   | 70     | 65     |        | 42     |    | 900  |
| <b>38706</b> | 2       |        | 70     |        |        |    |      |
| <b>38707</b> | 2.3/16  | 75     | 75     | 55     | 38     |    | 1250 |
| <b>38708</b> | 2.3/8   | 80     | 85     |        | 40     |    | 1700 |



### 12 PT.



| COD.         | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   |
|--------------|---------|--------|--------|--------|--------|----|-----|
| <b>38728</b> | 3/4     |        | 30     |        |        |    |     |
| <b>38729</b> | 13/16   |        | 33     | 36     | 29     |    | 220 |
| <b>38730</b> | 7/8     |        |        |        |        |    |     |
| <b>38731</b> | 15/16   | 49     | 36     |        |        |    |     |
| <b>38732</b> | 1       |        | 37     | 37     |        |    | 240 |
| <b>38733</b> | 1.1/16  |        | 39     | 36     | 24     |    | 250 |
| <b>38734</b> | 1.1/8   |        |        |        |        |    |     |
| <b>38735</b> | 1.3/16  |        | 42     | 38     |        |    | 300 |
| <b>38736</b> | 1.1/4   |        | 45     |        | 29     | 12 |     |
| <b>38737</b> | 1.7/16  | 55     | 50     | 42     | 31     |    | 450 |
| <b>38738</b> | 1.1/2   |        |        |        | 30     |    | 500 |
| <b>38739</b> | 1.9/16  | 60     | 55     | 45     | 34     |    | 600 |
| <b>38740</b> | 1.5/8   |        |        |        |        |    |     |
| <b>38741</b> | 1.3/4   | 65     | 60     |        | 40     |    | 750 |
| <b>38742</b> | 1.13/16 |        |        | 48     |        |    |     |
| <b>38743</b> | 1.7/8   | 70     | 65     |        | 42     |    | 900 |
| <b>38744</b> | 2       |        | 70     |        |        |    |     |



# 41

**HERRAMIENTA INOX**  
**INOX (STAINLESS STEEL) TOOLS**  
**OUTILLAGE INOX**  
**INOX WERKZEUGE**  
**UTENSILI INOX**  
**FERRAMENTA INOX**  
**ИНСТРУМЕНТ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ**



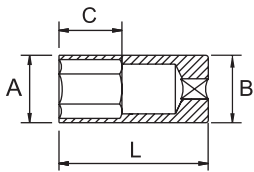
3/4"

| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g    |
|-------|---------|--------|--------|--------|--------|----|------|
| 38745 | 2.3/16  | 75     | 75     | 53     | 38     | 12 | 1250 |
| 38746 | 2.3/8   | 80     | 85     | 57     | 40     |    | 1700 |

SERIE LARGA / LONG PATTERN / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

MM

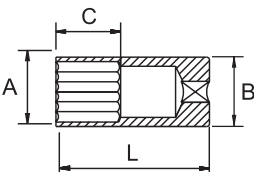
6 PT.



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g    |
|-------|-------|--------|--------|--------|--------|----|------|
| 38747 | 17    |        | 28     |        |        |    | 150  |
| 38748 | 19    |        | 30     |        |        |    | 320  |
| 38749 | 21    |        | 33     | 36     | 29     |    | 340  |
| 38750 | 22    |        | 34     |        |        |    | 380  |
| 38751 | 23    |        | 34     |        |        |    | 400  |
| 38752 | 24    | 49     | 36     |        |        |    | 420  |
| 38753 | 26    |        | 38     | 38     |        |    |      |
| 38754 | 27    |        | 39     | 36     | 24     |    | 440  |
| 38755 | 28    |        | 40     |        |        |    |      |
| 38756 | 29    |        | 42     |        |        | 6  | 480  |
| 38757 | 30    |        | 42     | 38     |        |    | 530  |
| 38758 | 32    | 54     | 45     |        | 29     |    | 580  |
| 38759 | 36    | 56     | 50     | 42     | 31     |    | 690  |
| 38760 | 38    | 56     | 52     | 45     | 30     |    | 720  |
| 38761 | 41    | 60     | 56     | 45     | 34     |    | 810  |
| 38762 | 46    | 66     | 62     | 48     | 40     |    | 900  |
| 38763 | 50    | 68     | 68     |        | 42     |    | 1000 |
| 38764 | 55    | 74     | 75     | 53     | 38     |    | 1100 |
| 38765 | 60    | 78     | 83     | 57     | 40     |    | 1200 |



12 PT.



| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   |
|-------|-------|--------|--------|--------|--------|----|-----|
| 38785 | 17    |        | 28     |        |        |    | 150 |
| 38786 | 19    |        | 30     |        |        |    | 320 |
| 38787 | 21    |        | 33     | 36     | 29     |    | 340 |
| 38788 | 22    |        | 34     |        |        |    | 380 |
| 38789 | 23    |        | 34     |        |        |    | 400 |
| 38790 | 24    | 49     | 36     |        |        | 12 | 420 |
| 38791 | 26    |        | 38     | 38     |        |    |     |
| 38792 | 27    |        | 39     | 36     | 24     |    | 440 |
| 38793 | 28    |        | 40     |        |        |    |     |
| 38794 | 29    |        | 42     |        |        |    | 480 |
| 38795 | 30    |        | 42     | 38     |        |    | 530 |
| 38796 | 32    | 54     | 45     |        | 29     |    | 580 |



# 41

**HERRAMIENTA INOX**  
**INOX (STAINLESS STEEL) TOOLS**  
**OUTILLAGE INOX**  
**INOX WERKZEUGE**  
**UTENSILI INOX**  
**FERRAMENTA INOX**  
**ИНСТРУМЕНТ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ**

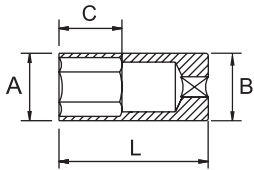


3/4"

| COD.  | AF mm | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g    |
|-------|-------|--------|--------|--------|--------|----|------|
| 38797 | 36    |        | 50     | 42     | 31     |    | 690  |
| 38798 | 38    | 56     | 52     | 45     | 30     |    | 720  |
| 38799 | 41    | 60     | 56     |        | 34     |    | 810  |
| 38800 | 46    | 66     | 62     | 48     | 40     | 12 | 900  |
| 38801 | 50    | 68     | 68     |        | 42     |    | 1000 |
| 38802 | 55    | 74     | 75     | 53     | 38     |    | 1100 |
| 38803 | 60    | 78     | 83     | 57     | 40     |    | 1200 |

INCH

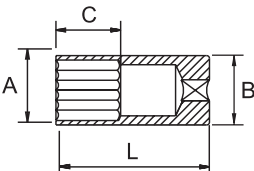
6 PT.



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g    |
|-------|---------|--------|--------|--------|--------|----|------|
| 38766 | 3/4     |        | 30     |        |        |    | 320  |
| 38767 | 13/16   |        | 33     | 36     | 29     |    | 350  |
| 38768 | 7/8     |        |        |        |        |    | 360  |
| 38769 | 15/16   | 49     | 36     |        |        |    | 420  |
| 38770 | 1       |        | 37     | 37     |        |    | 430  |
| 38771 | 1.1/16  |        | 39     | 36     | 24     |    | 450  |
| 38772 | 1.1/8   |        | 42     |        |        |    | 480  |
| 38773 | 1.3/16  |        |        | 38     |        |    | 520  |
| 38774 | 1.1/4   | 54     | 45     |        | 29     |    | 580  |
| 38775 | 1.7/16  | 56     | 50     | 42     | 31     | 6  | 660  |
| 38776 | 1.1/2   |        | 52     |        | 30     |    | 720  |
| 38777 | 1.9/16  | 60     | 55     | 45     | 34     |    | 760  |
| 38778 | 1.5/8   |        | 56     |        |        |    | 810  |
| 38779 | 1.3/4   | 66     | 61     |        |        |    | 860  |
| 38780 | 1.13/16 |        | 62     | 48     | 40     |    | 920  |
| 38781 | 1.7/8   | 68     | 66     |        | 42     |    | 980  |
| 38782 | 2       |        | 68     |        |        |    | 1080 |
| 38783 | 2.3/16  | 74     | 75     | 53     | 38     |    | 1400 |
| 38784 | 2.3/8   | 780    | 83     | 57     | 40     |    | 1650 |



12 PT.



| COD.  | AF inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g   |
|-------|---------|--------|--------|--------|--------|----|-----|
| 38804 | 3/4     |        | 30     |        |        |    | 320 |
| 38805 | 13/16   |        | 33     | 36     | 29     |    | 350 |
| 38806 | 7/8     |        |        |        |        |    | 360 |
| 38807 | 15/16   | 49     | 36     |        |        |    | 420 |
| 38808 | 1       |        | 37     | 37     |        | 12 | 430 |
| 38809 | 1.1/16  |        | 39     | 36     | 24     |    | 450 |
| 38810 | 1.1/8   |        | 42     |        |        |    | 480 |
| 38811 | 1.3/16  |        |        | 38     |        |    | 520 |
| 38812 | 1.1/4   | 54     | 45     |        | 29     |    | 580 |



3/4"

| COD.  | AF<br>inch | L (mm) | A (mm) | B (mm) | C (mm) | Pt | g    |
|-------|------------|--------|--------|--------|--------|----|------|
| 38813 | 1.7/16     |        | 50     | 42     | 31     |    | 660  |
| 38814 | 1.1/2      | 56     | 52     |        | 30     |    | 720  |
| 38815 | 1.9/16     | 60     | 55     | 45     | 34     |    | 760  |
| 38816 | 1.5/8      |        | 56     |        |        |    | 810  |
| 38817 | 1.3/4      |        | 61     |        | 40     | 12 | 860  |
| 38818 | 1.13/16    | 66     | 62     | 48     |        |    | 920  |
| 38819 | 1.7/8      | 68     | 66     |        | 42     |    | 980  |
| 38820 | 2          |        | 68     |        |        |    | 1080 |
| 38821 | 2.3/16     | 74     | 75     | 53     | 38     |    | 1400 |
| 38822 | 2.3/8      | 78     | 83     | 57     | 40     |    | 1650 |

**ALARGADERA / EXTENSION / RALLONGE / VERLANGERUNG / PROLUNGA / EXTENCAO / УДЛИНИТЕЛЬ**

| COD.  | AF<br>inch | L (inch) | g   |   |  |
|-------|------------|----------|-----|---|--|
| 38826 |            | 4        | 200 |   |  |
| 38827 | 3/4        | 8        | 230 | 5 |  |
| 38828 |            | 10       | 260 |   |  |



**LLAVES ESPECIALES / SPECIAL WRENCHES / CLÉS SPÉCIALES / SPEZIELL ZANGEN / CHIAVI SPECIALI / CHAVES ESPECIAIS / КЛЮЧИ СПЕЦИАЛЬНЫЕ**

**LLAVE DE GANCHO ARTICULADA / ADJUSTABLE HOOK SPANNER / CLÉ À ERGOT ARTICULEE / ZANGE MIT VERSTELLBARE BACKE / CHIAVE A SETTORE REGOLABILE / CHAVE DE GANCHO ARTICULADA / РУГУЛИРУЕМЫЙ КЛЮЧ КРЮК**

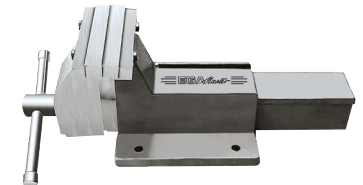
| COD.  | CAP. (mm) | L (mm) | g   |
|-------|-----------|--------|-----|
| 38191 | 50-120    | 250    | 450 |



**TORNILLO DE BANCO PARALELO / PARALLEL BENCH VICE / ÉTAU À MORS PARALLELES / PARALLELSCHRAUBSTÖCKE / MORS DA BANCO PARALLELA / TORNO DE BANCADA PARALELO / ТИСКЫ**

**FIJO / FIXED / FIXE / FESTE-AUSFÜHRUNG / BASE FISSA / FIXO / ФИКСИРОВАННЫЙ**

| COD.  | inch | mm  | Kg  |
|-------|------|-----|-----|
| 38877 | 4    | 100 | 7,0 |
| 38878 | 5    | 140 | 10  |
| 38879 | 8    | 200 | 16  |
| 38880 | 10   | 250 | 20  |



**DESTORNILLADORES / SCREWDRIVERS / TOURNEVIS / SCHRAUBENDREHER / CACCIAVITI / CHAVES DE FENDA / ОТВЕРТКИ**





**ELECTRICISTA / ELECTRICIAN / ELECTRICIEN / ELEKTRIKER / PER ELETTRICISTI / ELETTRICISTA / ЭЛЕКТРИЧЕСКАЯ**

| COD.  | mm | mm  | mm  | g   |
|-------|----|-----|-----|-----|
| 38150 | 3  | 80  | 75  | 40  |
| 38151 | 4  | 100 | 90  | 60  |
| 38152 | 5  | 150 | 110 | 90  |
| 38153 | 6  | 200 | 120 | 130 |
| 38154 | 8  | 300 |     | 170 |
| 38155 | 10 | 200 |     | 200 |
| 38666 |    | 300 | 120 | 220 |
| 38156 | 12 | 200 |     | 260 |
| 38157 | 14 | 250 |     | 320 |







| COD.  | mm | mm  | mm  | g   |
|-------|----|-----|-----|-----|
| 38017 | 3  | 80  | 75  | 40  |
| 38018 | 4  | 100 | 90  | 60  |
| 38019 | 5  | 150 | 110 | 90  |
| 38020 | 6  | 200 | 120 | 130 |
| 38021 | 8  | 300 |     | 170 |
| 38022 | 10 | 200 |     | 200 |







| COD.  |  mm |  mm |  mm |  g |
|-------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 38023 | 10                                                                                   | 300                                                                                  |                                                                                      | 220                                                                                   |
| 38024 | 12                                                                                   | 200                                                                                  | 120                                                                                  | 260                                                                                   |
| 38025 | 14                                                                                   | 250                                                                                  |                                                                                      | 320                                                                                   |

#### PHILLIPS®\*





| COD.  |  |  mm |  mm |  g |
|-------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 38158 | PH0                                                                               | 60                                                                                   | 75                                                                                   | 30                                                                                    |
| 38159 | PH1                                                                               | 80                                                                                   | 90                                                                                   | 80                                                                                    |
| 38160 | PH2                                                                               | 100                                                                                  | 110                                                                                  | 120                                                                                   |
| 38161 | PH3                                                                               | 150                                                                                  | 120                                                                                  | 190                                                                                   |
| 38162 | PH4                                                                               | 200                                                                                  |                                                                                      | 270                                                                                   |







| COD.  |  |  mm |  mm |  g |
|-------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 38026 | PH0                                                                               | 60                                                                                   | 75                                                                                   | 30                                                                                    |
| 38027 | PH1                                                                               | 80                                                                                   | 90                                                                                   | 80                                                                                    |
| 38028 | PH2                                                                               | 100                                                                                  | 110                                                                                  | 120                                                                                   |
| 38029 | PH3                                                                               | 150                                                                                  | 120                                                                                  | 190                                                                                   |
| 38030 | PH4                                                                               | 200                                                                                  | 75                                                                                   | 270                                                                                   |



#### POZIDRIV®\*


| COD.  |  |  mm |  mm |  g |
|-------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 38163 | PZ0                                                                                 | 60                                                                                     | 75                                                                                     | 40                                                                                      |
| 38164 | PZ1                                                                                 | 80                                                                                     | 90                                                                                     | 80                                                                                      |
| 38165 | PZ2                                                                                 | 100                                                                                    | 110                                                                                    | 120                                                                                     |
| 38166 | PZ3                                                                                 | 150                                                                                    | 120                                                                                    | 190                                                                                     |
| 38167 | PZ4                                                                                 | 200                                                                                    |                                                                                        | 270                                                                                     |



| COD.  |  |  mm |  mm |  g |
|-------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 38031 | PZ0                                                                                 | 60                                                                                     | 75                                                                                     | 40                                                                                      |
| 38032 | PZ1                                                                                 | 80                                                                                     | 90                                                                                     | 80                                                                                      |
| 38033 | PZ2                                                                                 | 100                                                                                    | 110                                                                                    | 120                                                                                     |
| 38034 | PZ3                                                                                 | 150                                                                                    | 120                                                                                    | 190                                                                                     |
| 38035 | PZ4                                                                                 | 200                                                                                    |                                                                                        | 270                                                                                     |

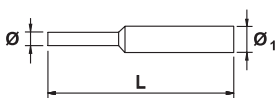



#### CORTAFRÍOS CILÍNDRICO / CYLINDRICAL COLD CHISEL / BÉDANE CYLINDRIQUE / ZYLINDRISCHE MEISSEL / SCALPELLO CILINDRICO TAGLIO A FREDDO / ESCOPRO CILINDRICO / ЦИЛИНДРИЧЕСКОЕ ЗУБТЛО

| COD.  | L (mm)   |  O.D. mm |
|-------|----------|---------------------------------------------------------------------------------------------|
| 38837 | 16 x 160 | 16                                                                                          |
| 38838 | 18 x 200 | 18                                                                                          |
| 38839 | 24 x 300 | 24                                                                                          |
| 38840 | 25 x 400 | 25                                                                                          |
| 38841 | 30 x 500 | 30                                                                                          |



#### BOTADORES CILÍNDRICOS / PIN PUNCHES / CHASSES GOUPILLES / DURCHSCHLÄGER / PUNZONE CILINDRICO / PUNÇÕES CILÍNDRICOS / ПРОБОЙНИКИ




| COD.  | Ø (mm) | Ø 1 (mm) | L (mm) |  g |
|-------|--------|----------|--------|----------------------------------------------------------------------------------------|
| 38610 | 2      | 8        | 110    | 29                                                                                     |
| 38611 | 3      | 9        |        | 38                                                                                     |



\*Para tornillos PHILLIPS® (Marca registrada por Phillips Screw Company) / \*For screws PHILLIPS® (Phillips Screw Company registered trademark) / \*Pour vis PHILLIPS® (Marque enregistrée par Phillips Screw Company)

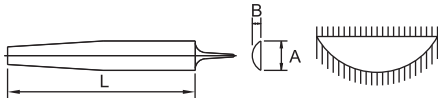
\*Para tornillos POZIDRIV® (Marca registrada por European Ind. Serv. Ltd.) / \*For screws POZIDRIV® (European Ind. Serv. Ltd. registered trademark) / \*Pour vis POZIDRIV® (Marque enregistrée par European Ind. Serv. Ltd.)




| COD.  | Ø (m) | Ø 1 (mm) | L (mm) |  |
|-------|-------|----------|--------|------------------------------------------------------------------------------------|
| 38612 | 4     | 10       | 110    | 48                                                                                 |
| 38613 | 5     | 11       | 115    | 60                                                                                 |
| 38614 | 6     | 12       | 120    | 75                                                                                 |
| 38615 | 7     | 13       | 120    | 95                                                                                 |

■ **LIMAS / FILES / LIMES / FEILEN / LIMA / LIMAS / НАПИЛЬНИКИ**

■ **LIMAS MEDIA CAÑA / HALF ROUND FILES / LIMES DEMI-RONDES / HALBRUND FEILEN / LIMA MEZZATONDA / LIMAS MEIA CANA / ПОЛУОКРУГЛЫЙ НАПИЛЬНИК**

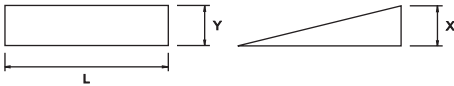



| COD.  | L (inch) |  | A (mm) | B (mm) |
|-------|----------|-----------------------------------------------------------------------------------|--------|--------|
| 38300 | 10       | 2                                                                                 | 12     | 17-26  |

2: Entrefina / Medium / Demi-douce




■ **CUÑA / WEDGE / COIN / KEIL / CUNEO / CУННА / КЛИН**



| COD.  | L (mm) | Y  | X  |  |
|-------|--------|----|----|-------------------------------------------------------------------------------------|
| 38059 | 75     | 13 | 6  | 20                                                                                  |
| 38060 | 95     |    | 10 | 200                                                                                 |
| 38061 | 145    | 50 | 13 | 380                                                                                 |
| 38062 | 175    |    | 19 | 670                                                                                 |
| 38063 | 195    |    | 12 | 470                                                                                 |
| 38064 | 245    | 40 | 30 | 1170                                                                                |
| 38065 | 295    | 50 | 40 | 2340                                                                                |




■ **PALANCA / PINCHBAR / PINCE À TALON / BRECHSTANGE / LEVA / AVALANCA / МОНИТРОВКА**

| COD.  | L (mm)   |  |
|-------|----------|-------------------------------------------------------------------------------------|
| 38832 | 15 x 500 | 0,7                                                                                 |
| 38833 | 19 x 500 | 1,0                                                                                 |
| 38834 | 20 x 500 | 1,2                                                                                 |
| 38835 | 23 x 500 | 1,5                                                                                 |
| 38836 | 23 x 800 | 2,4                                                                                 |




■ **MARTILLOS / HAMMERS / MARTEAUX / HÄMMER / MARTELLI / MARTELOS / МОЛОТКИ**

■ **MARTILLO DE BOLA / BALL PEIN HAMMER / MARTEAU À BOULE / SCHLOSSER HAMMER / MARTELLO A PALLA / MARTELO DE BOLA / МОЛОТОК С ШАРОВОЙ ГОЛОВКОЙ**

| COD.  | L (mm) |  |
|-------|--------|-------------------------------------------------------------------------------------|
| 38068 | 350    | 450                                                                                 |



■ **MACETA OCTOGONAL / SLEDGE Mallet / MASSETTE OCTOGONALE / SCHLAGHAMMER / MAZZETTA OTTOGONALE / MARRETA OCTOGONAL / КУВАЛДА**

| COD.  | L (mm) |  |
|-------|--------|-------------------------------------------------------------------------------------|
| 38069 |        | 1                                                                                   |
| 38070 | 350    | 1,5                                                                                 |
| 38071 |        | 2                                                                                   |
| 38072 | 800    | 2,5                                                                                 |
| 38073 |        | 3                                                                                   |
| 38074 | 850    | 3,5                                                                                 |

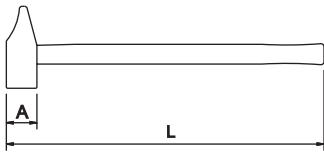


■ **MACETA CUADRADA TIPO ALEMÁN / GERMAN TYPE MALLET / MASSETTE TYPE ALLEMAND / FÄUSTEL / MAZZETA / MARRETA / КУВАЛДА НЕМЕЦКИЙ ТИП ДЛЯ КАМНЯ**

| COD.  | L (mm) | Kg  |
|-------|--------|-----|
| 38179 | 400    | 1   |
| 38180 |        | 1,5 |
| 38181 |        | 2   |
| 38182 |        | 2,5 |
| 38183 | 900    | 3   |
| 38184 |        | 3,5 |



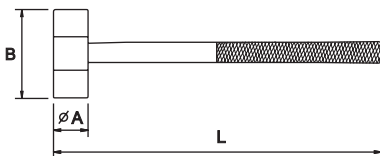
■ **MARTILLO DE EBANISTA / JOINER'S HAMMER / MARTEAU DE MENUISIER / HOLZSCHNITZERHAMMER / MARTELLO FALEGNAME / MARTELO DE PENA / СТОЛЯРНЫЙ МОЛОТОК**



| COD.  | L (mm) | A (mm) | g   |
|-------|--------|--------|-----|
| 38075 | 280    | 18     | 250 |
| 38076 |        | 20     | 300 |
| 38077 |        | 22     | 350 |
| 38078 | 300    | 25     | 500 |
| 38079 |        | 28     | 590 |
| 38080 | 350    | 30     | 780 |



■ **MACETA DE NYLON / NYLON MALLET / MARTEAU NYLON / NYLON-HAMMER / MARTELLO DI NYLON / MARTELO DE NYLON / НЕЙЛОНОВЫЙ МОЛОТОК**

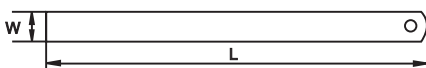


| COD.  | L (mm) | Ø A (mm) | B (mm) | g   |
|-------|--------|----------|--------|-----|
| 38185 | 200    | 30       | 80     | 250 |

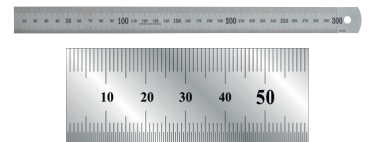


■ **REGLAS SEMI-FLEXIBLES DE ACERO INOXIDABLE / STAINLESS STEEL SEMI-FLEXIBLE RULERS / RÈGLES SEMI-FLEXIBLE EN ACIER INOX / FLEXIBLES LINEAL AUS EDELSTAHL / RIGA SEMIFLESSIBILE IN ACCIAIO INOX / RÉGUA SEMI-FLEXÍVEL EM AÇO INOX / ГИБКИЕ ЛИНЕЙКИ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ**

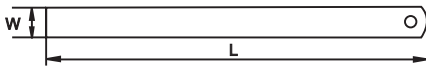
■ **GRADUACIÓN EN MILÍMETROS / MILIMETRIC GRADUATION / GRADUATION EN MILLIMÈTRE / MM-TEILUNGEN / GRADUAZIONE IN MILLIMETRI / GRADUAÇÃO EM MILIMETROS / МЕТРИЧЕСКАЯ ШКАЛА**



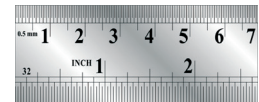
| COD.  | L x W (mm) | mm  | g   | 6 |
|-------|------------|-----|-----|---|
| 65772 | 150 x 18   | 0,8 | 10  | 6 |
| 65832 | 200 x 18   |     | 12  |   |
| 65774 | 300 x 25   | 1,0 | 20  |   |
| 65834 | 500 x 30   |     | 40  |   |
| 65836 | 600 x 30   | 1,2 | 50  |   |
| 65838 | 1000 x 32  | 1,5 | 100 |   |
| 65840 | 1200 x 35  |     | 125 |   |
| 65842 | 1500 x 38  | 1,8 | 150 |   |
| 65844 | 2000 x 40  | 2,0 | 200 |   |



**GRADUACIÓN EN MILÍMETROS Y PULGADAS / GRADUATION IN MILLIMETERS AND INCHES / GRADUATION EN MM ET EN POUCE / INCH UND MM TEILUNGEN / GRADUAZIONE IN MM E IN POLLICI / GRADUAÇÃO EM MILÍMETROS E POLEGADAS / МЕТРИЧЕСКАЯ И ДЮЙМОВАЯ ШКАЛА**



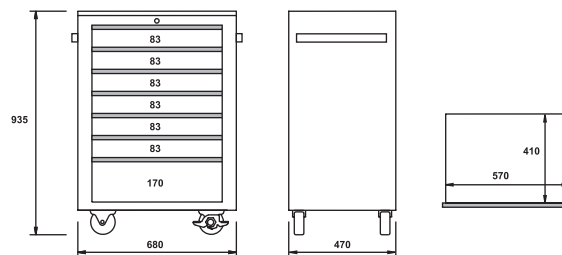
| COD.  | L x W (mm) | mm  | g   |   |
|-------|------------|-----|-----|---|
| 65831 | 150 x 18   | 0,8 | 10  |   |
| 65773 | 200 x 18   |     | 12  |   |
| 65833 | 300 x 25   | 1,0 | 20  |   |
| 65835 | 500 x 30   |     | 40  |   |
| 65837 | 600 x 30   | 1,2 | 50  | 6 |
| 65839 | 1000 x 32  | 1,5 | 100 |   |
| 65841 | 1200 x 35  |     | 125 |   |
| 65843 | 1500 x 38  | 1,8 | 150 |   |
| 65845 | 2000 x 40  | 2,0 | 200 |   |



**ARMARIOS-CARROS DE HERRAMIENTAS 100% INOX / ROLLER CABINETS 100% INOX / SERVANTES À ROUES 100% INOX / WERKZEUGWAGEN 100% INOX / CASSETTIERE MOBILI 100% INOX / CARRO DE FERRAMENTAS 100% INOX / ШКАФЫ-ТЕЛЕЖКИ ДЛЯ ИНСТРУМЕНТОВ 100% НЕРЖАВЕЮЩАЯ СТАЛЬ**



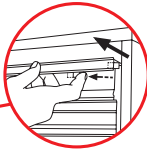
Sistema antivuelco con botón de seguridad de apertura individual por bandeja  
 Anti-ovrturm system with individual safety open button in each tray  
 Système anti-renversement avec bouton de sécurité d'ouverture individuelle par tiroir



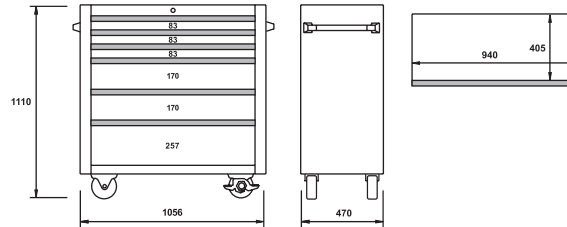
| COD.  | L x W x H (mm)  | Material estructura / Material structure / Structure matériaux | Kg |
|-------|-----------------|----------------------------------------------------------------|----|
| 51558 | 680 x 470 x 935 | Inox 304                                                       | 63 |

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                                      |                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Material / Material / Matière                                                                                                        | Exterior e interior 100% INOX / Exterior and interior 100% INOX / Extérieur et intérieur 100% INOX |
| Cajones con rodamientos / Ball-bearing slides / Tiroirs à roulement                                                                  | 7                                                                                                  |
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein | 5" x 1,5"                                                                                          |
| Capacidad cajones de altura 83 mm / Capacity in 83 mm height drawers / Capacité des tiroirs de 83 mm de haut                         | 25 Kg                                                                                              |
| Capacidad cajones de altura 170 mm / Capacity in 170 mm height drawers / Capacité des tiroirs de 170 mm de haut                      | 30 Kg                                                                                              |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                                | 320 Kg                                                                                             |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                                           | •                                                                                                  |
| Asa lateral reforzada / Reinforced side handle / Poignées latérale renforcée                                                         | •                                                                                                  |
| Sistema antivuelco en cada bandeja / Anti-ovrturm system in each drawers / Système anti-renversement dans chaque tiroir              | •                                                                                                  |



Sistema antivuelco con botón de seguridad de apertura individual por bandeja  
 Anti-overtum system with individual safety open button in each tray  
 Système anti-renversement avec bouton de sécurité d'ouverture individuelle par tiroir



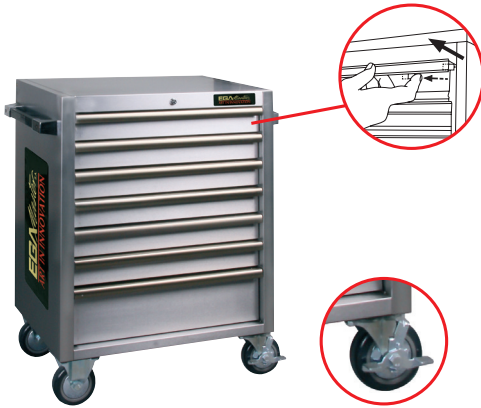
| COD.  | L x W x H (mm)    | Material estructura / Material structure / Structure matériaux | Kg |
|-------|-------------------|----------------------------------------------------------------|----|
| 51559 | 1056 x 470 x 1110 | Inox 304                                                       | 95 |

#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

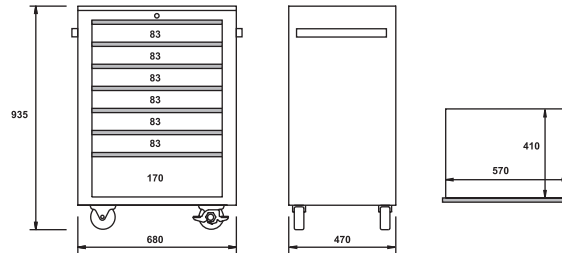
|                                                                                                                                      |                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Material / Material / Matière                                                                                                        | Exterior e interior 100% INOX / Exterior and interior 100% INOX / Extérieur et intérieur 100% INOX |
| Cajones con rodamientos / Ball-bearing slides / Tiroirs à roulement                                                                  | 6                                                                                                  |
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein | 5" x 1,5"                                                                                          |
| Capacidad cajones de altura 83 mm / Capacity in 83 mm height drawers / Capacité des tiroirs de 83 mm de haut                         | 25 Kg                                                                                              |
| Capacidad cajones de altura 170 mm / Capacity in 170 mm height drawers / Capacité des tiroirs de 170 mm de haut                      | 30 Kg                                                                                              |
| Capacidad cajones de altura 257 mm / Capacity in 257 mm height drawers / Capacité des tiroirs de 257 mm de haut                      | 30 kg                                                                                              |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                                | 500 kg                                                                                             |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                                           | •                                                                                                  |
| Asa lateral reforzada / Reinforced side handle / Poignées latérale renforcée                                                         | •                                                                                                  |
| Sistema antivuelco en cada bandeja / Anti-overtum system in each drawers / Système anti-renversement dans chaque tiroir              | •                                                                                                  |

**EGA** *Master*  
 ART IN INNOVATION

**ARMARIOS-CARROS DE HERRAMIENTAS DE SUPERFICIES INOX\* / INOX SURFACE ROLLER CABINETS\* / SERVANTES À ROUES AVEC SURFACE INOX\* /  
 WERKZEUGWAGEN MIT INOX OBERFLÄCHE\* / CASSETTIERE MOBILI PORTAUTENSILI DI SUPERFICI INOX\* / ARMÁRIOS-CARROS DE FERRAMENTA DE SUPERFÍCIE  
 INOX\* / ШКАФЫ-ТЕЛЕЖКИ ДЛЯ ИНСТРУМЕНТОВ С ПОКРЫТИЕМ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ\***



Sistema antivuelco con botón de seguridad de apertura individual por bandeja  
 Anti-overturn system with individual safety open button in each tray  
 Système anti-renversement avec bouton de sécurité d'ouverture individuelle par tiroir

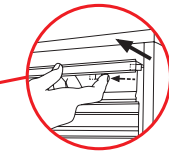


| COD.  | L x W x H (mm)  | Material estructura / Material structure / Structure matériaux | Material ruedas / Wheel material / Matière roues | Kg |
|-------|-----------------|----------------------------------------------------------------|--------------------------------------------------|----|
| 51478 | 680 x 470 x 935 | Inox 430                                                       | Inox 304                                         | 63 |

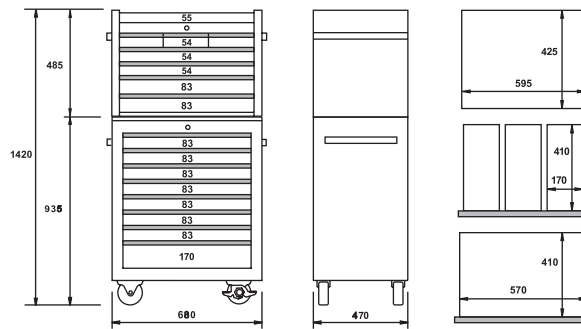
**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                                      |                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material* / Material* / Matière*                                                                                                     | Exterior 100% INOX - Interior: Acero pintado - Placa fijación ruedas: Acero / Exterior 100% INOX - Interior: Painted Steel - Wheel fixing plate: Steel / Extérieur 100% INOX - Intérieur: Acier peint - Roues de fixation: Acier |
| Cajones con rodamientos / Ball-bearing slides / Tiroirs à roulement                                                                  | 7                                                                                                                                                                                                                                |
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein | 5" x 1,5"                                                                                                                                                                                                                        |
| Capacidad cajones de altura 83 mm / Capacity in 83 mm height drawers / Capacité des tiroirs de 83 mm de haut                         | 25 Kg                                                                                                                                                                                                                            |
| Capacidad cajones de altura 170 mm / Capacity in 170 mm height drawers / Capacité des tiroirs de 170 mm de haut                      | 30 Kg                                                                                                                                                                                                                            |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                                | 320 Kg                                                                                                                                                                                                                           |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                                           | ●                                                                                                                                                                                                                                |
| Asa lateral reforzada / Reinforced side handle / Poignées latérale renforcée                                                         | ●                                                                                                                                                                                                                                |
| Sistema antivuelco en cada bandeja / Anti-overturn system in each drawers / Système anti-renversement dans chaque tiroir             | ●                                                                                                                                                                                                                                |

**BE SAFE...BE EFFICIENT**



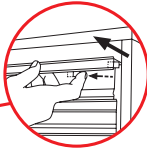
Sistema antivuelco con botón de seguridad de apertura individual por bandeja  
 Anti- overturn system with individual safety open button in each tray  
 Système anti-renversement avec bouton de sécurité d'ouverture individuelle par tiroir



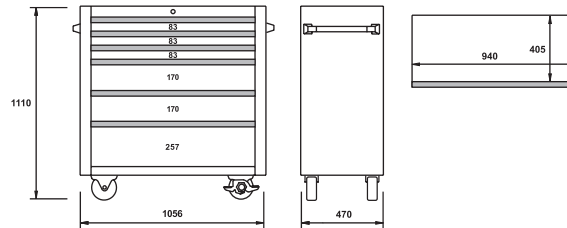
| COD.  | L x W x H (mm)   | Material estructura / Material structure / Structure matériaux | Material ruedas / Wheel material / Matière roues | Kg  |
|-------|------------------|----------------------------------------------------------------|--------------------------------------------------|-----|
| 51563 | 680 x 470 x 1420 | Inox 430                                                       | Inox 304                                         | 109 |

#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                      |                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material* / Material* / Matière*                                                                                                     | Exterior 100% INOX - Interior: Acero pintado - Placa fijación ruedas: Acero / Exterior 100% INOX - Interior: Painted Steel - Wheel fixing plate: Steel / Extérieur 100% INOX - Intérieur: Acier peint - Roues de fixation: Acier |
| Cajones con rodamientos / Ball-bearing slides / Tiroirs à roulement                                                                  | 14                                                                                                                                                                                                                               |
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein | 5" x 1,5"                                                                                                                                                                                                                        |
| Capacidad cajones 170 x 410 x 54 mm / Drawer capacity 170 x 410 x 54 mm / Capacité des tiroirs de 170 x 410 x 54 mm                  | 15 kg                                                                                                                                                                                                                            |
| Capacidad cajones 570 x 410 x 54 mm / Drawer capacity 570 x 410 x 54 mm / Capacité des tiroirs de 570 x 410 x 54 mm                  | 25 kg                                                                                                                                                                                                                            |
| Capacidad cajones de altura 83 mm / Capacity in 83 mm height drawers / Capacité des tiroirs de 83 mm de haut                         | 25 kg                                                                                                                                                                                                                            |
| Capacidad cajones de altura 170 mm / Capacity in 170 mm height drawers / Capacité des tiroirs de 170 mm de haut                      | 30 kg                                                                                                                                                                                                                            |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                                | 470 kg                                                                                                                                                                                                                           |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                                           | ●                                                                                                                                                                                                                                |
| Asa lateral reforzada / Reinforced side handle / Poignées latérale renforcée                                                         | ●                                                                                                                                                                                                                                |
| Sistema antivuelco en cada bandeja / Anti- overturn system in each drawers / Système anti-renversement dans chaque tiroir            | ●                                                                                                                                                                                                                                |
| Tapa con doble pistón neumático / Double pneumatic absorber equipped lid / Couvercle avec double piston pneumatique                  | ●                                                                                                                                                                                                                                |



Sistema antivuelco con botón de seguridad de apertura individual por bandeja  
*Anti-overtum system with individual safety open button in each tray*  
 Système anti-renversement avec bouton de sécurité d'ouverture individuelle par tiroir



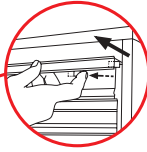
| COD.  | L x W x H (mm)    | Material estructura / Material structure / Structure matériaux | Material ruedas / Wheel material / Matière roues | Kg |
|-------|-------------------|----------------------------------------------------------------|--------------------------------------------------|----|
| 51561 | 1056 x 470 x 1110 | Inox 430                                                       | Inox 304                                         | 95 |

#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

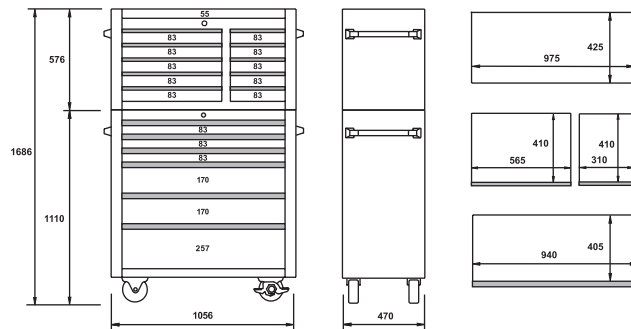
|                                                                                                                                      |                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material* / Material* / Matière*                                                                                                     | Exterior 100% INOX - Interior: Acero pintado - Placa fijación ruedas: Acero / Exterior 100% INOX - Interior: Painted Steel - Wheel fixing plate: Steel / Extérieur 100% INOX - Intérieur: Acier peint - Roues de fixation: Acier |
| Cajones con rodamientos / Ball-bearing slides / Tiroirs à roulement                                                                  | 6                                                                                                                                                                                                                                |
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake wheels / 2 roues fixes et 2 roues giratoires avec frein | 5" x 1,5"                                                                                                                                                                                                                        |
| Capacidad cajones de altura 83 mm / Capacity in 83 mm height drawers / Capacité des tiroirs de 83 mm de haut                         | 25 Kg                                                                                                                                                                                                                            |
| Capacidad cajones de altura 170 mm / Capacity in 170 mm height drawers / Capacité des tiroirs de 170 mm de haut                      | 30 Kg                                                                                                                                                                                                                            |
| Capacidad cajones de altura 257 mm / Capacity in 257 mm height drawers / Capacité des tiroirs de 257 mm de haut                      | 30 kg                                                                                                                                                                                                                            |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                                | 500 kg                                                                                                                                                                                                                           |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                                           | •                                                                                                                                                                                                                                |
| Asa lateral reforzada / Reinforced side handle / Poignées latérale renforcée                                                         | •                                                                                                                                                                                                                                |
| Sistema antivuelco en cada bandeja / Anti-overtum system in each drawers / Système anti-renversement dans chaque tiroir              | •                                                                                                                                                                                                                                |

# EGAMASTER

## ART IN INNOVATION



Sistema antivuelco con botón de seguridad de apertura individual por bandeja  
 Anti-overtum system with individual safety open button in each tray  
 Système anti-renversement avec bouton de sécurité d'ouverture individuelle par tiroir



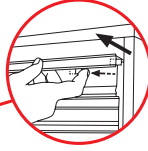
| COD.  | L x W x H (mm)    | Material estructura / Material structure / Structure<br>matériaux | Material ruedas / Wheel material / Matière roues | Kg  |
|-------|-------------------|-------------------------------------------------------------------|--------------------------------------------------|-----|
| 51564 | 1056 x 470 x 1686 | Inox 430                                                          | Inox 304                                         | 168 |

#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

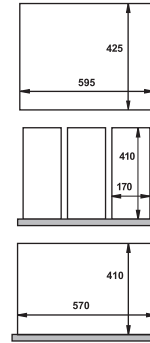
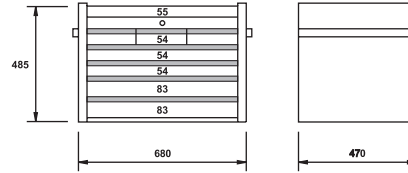
|                                                                                                                                         |                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material* / Material* / Matière*                                                                                                        | Exterior 100% INOX - Interior: Acero pintado - Placa fijación ruedas: Acero /<br>Exterior 100% INOX - Interior: Painted Steel - Wheel fixing plate: Steel / Extérieur<br>100% INOX - Intérieur: Acier peint - Roues de fixation: Acier |
| Cajones con rodamientos / Ball-bearing slides / Tiroirs à roulement                                                                     | 16                                                                                                                                                                                                                                     |
| 2 ruedas fijas y 2 giratorias con freno / 2 fixed and 2 revolving with brake<br>wheels / 2 roues fixes et 2 roues giratoires avec frein | 5" x 1,5"                                                                                                                                                                                                                              |
| Capacidad cajones de altura 55 mm / Capacity in 55 mm height drawers /<br>Capacité des tiroirs de 55 mm de haut                         | 30 kg                                                                                                                                                                                                                                  |
| Capacidad cajón 310 x 410 x 83 mm / Drawer capacity 310 x 410 x 83 mm /<br>Capacité du tiroir 310 x 410 x 83 mm                         | 25 kg                                                                                                                                                                                                                                  |
| Capacidad cajón 565 x 410 x 83 mm / Drawer capacity 565 x 410 x 83 mm /<br>Capacité du tiroir 565 x 410 x 83 mm                         | 25 kg                                                                                                                                                                                                                                  |
| Capacidad cajones de altura 83 mm / Capacity in 83 mm height drawers /<br>Capacité des tiroirs de 83 mm de haut                         | 25 Kg                                                                                                                                                                                                                                  |
| Capacidad cajones de altura 170 mm / Capacity in 170 mm height drawers /<br>Capacité des tiroirs de 170 mm de haut                      | 30 Kg                                                                                                                                                                                                                                  |
| Capacidad cajones de altura 257 mm / Capacity in 257 mm height drawers /<br>Capacité des tiroirs de 257 mm de haut                      | 30 kg                                                                                                                                                                                                                                  |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale<br>de charge statique                                | 700 kg                                                                                                                                                                                                                                 |
| Sistema de cierre centralizado / Central locking system / Système de fermeture<br>centralisée                                           | ●                                                                                                                                                                                                                                      |
| Asa lateral reforzada / Reinforced side handle / Poignées latérale renforcée                                                            | ●                                                                                                                                                                                                                                      |
| Sistema antivuelco en cada bandeja / Anti-overtum system in each drawers /<br>Système anti-renversement dans chaque tiroir              | ●                                                                                                                                                                                                                                      |



**COFRES PORTAHERRAMIENTAS DE SUPERFICIES INOX\* / INOX SURFACE TOOL CHEST\* / COFFRE À TIROIRS AVEC SURFACE INOX\* / WERKSTATTKASTEN MIT INOX OBERFLÄCHE\* / CASSETTI PORTAUTENSILI DI SUPERFICI INOX\* / BAÚ PORTA-FERRAMENTAS DE SUPERFÍCIE INOX\* / ПОРТАТИВНЫЕ ЯЩИКИ С ПОВЕРХНИЕМ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ\***



Sistema antivuelco con botón de seguridad de apertura individual por bandeja  
 Anti-overtum system with individual safety open button in each tray  
 Système anti-renversement avec bouton de sécurité d'ouverture individuelle par tiroir

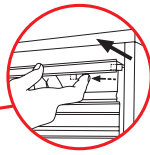


| COD.  | L x W x H (mm)  | Material estructura / Material structure / Structure matériaux |  Kg |
|-------|-----------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 51560 | 680 x 470 x 485 | Inox 430                                                       | 45,5                                                                                   |

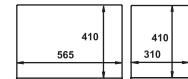
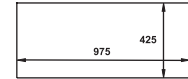
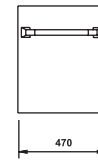
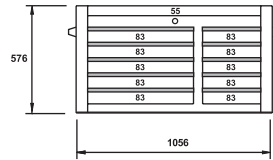
**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                         |                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Material* / Material* / Matière*                                                                                        | Exterior: 100% INOX – Interior: Acero pintado / Exterior 100% INOX – Interior: Painted Steel / Extérieur 100% INOX - Intérieur: Acier peint |
| Cajones con rodamientos / Ball-bearing slides / Tiroirs à roulement                                                     | 7                                                                                                                                           |
| Capacidad cajones de altura 55 mm / Capacity in 55 mm height drawers / Capacité des tiroirs de 55 mm de haut            | 20 kg                                                                                                                                       |
| Capacidad cajones 170 x 410 x 54 mm / Drawer capacity 170 x 410 x 54 mm / Capacité des tiroirs de 170 x 410 x 54 mm     | 15 kg                                                                                                                                       |
| Capacidad cajones 570 x 410 x 54 mm / Drawer capacity 570 x 410 x 54 mm / Capacité des tiroirs de 570 x 410 x 54 mm     | 25 kg                                                                                                                                       |
| Capacidad cajones de altura 83 mm / Capacity in 83 mm height drawers / Capacité des tiroirs de 83 mm de haut            | 25 kg                                                                                                                                       |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                   | 150 kg                                                                                                                                      |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                              | ●                                                                                                                                           |
| Asa lateral reforzada / Reinforced side handle / Poignées latérale renforcée                                            | ●                                                                                                                                           |
| Sistema antivuelco en cada bandeja / Anti-overtum system in each drawers / Système anti-renversement dans chaque tiroir | ●                                                                                                                                           |
| Tapa con doble pistón neumático / Double pneumatic absorber equipped lid / Couvercle avec double piston pneumatique     | ●                                                                                                                                           |

**BE SAFE...BE EFFICIENT**



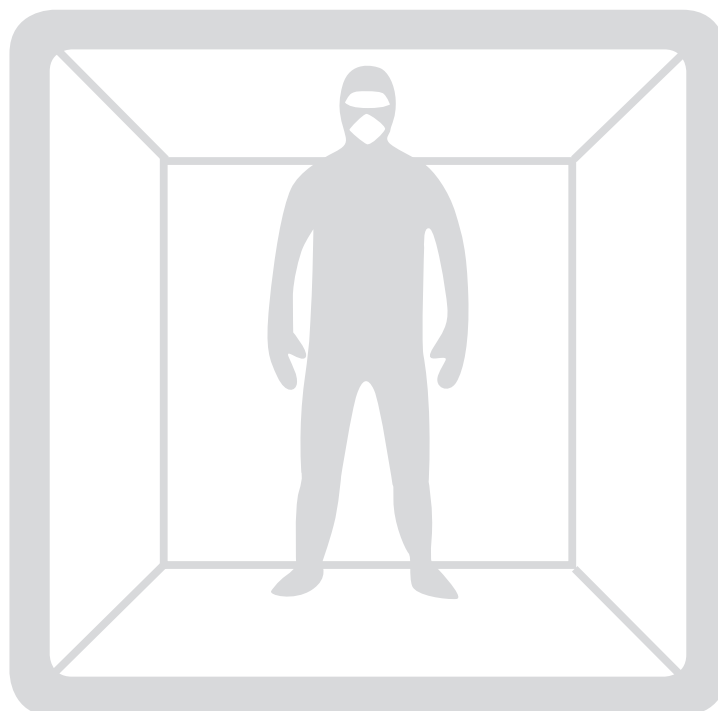
Sistema antivuelco con botón de seguridad de apertura individual por bandeja  
 Anti-overturn system with individual safety open button in each tray  
 Système anti-renversement avec bouton de sécurité d'ouverture individuelle par tiroir



| COD.  | L x W x H (mm)   | Material estructura / Material structure / Structure matériaux | Kg |
|-------|------------------|----------------------------------------------------------------|----|
| 51562 | 1056 x 470 x 576 | Inox 430                                                       | 95 |

#### ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                          |                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Material* / Material* / Matière*                                                                                         | Exterior: 100% INOX – Interior: Acero pintado / Exterior 100% INOX – Interior: Painted Steel / Extérieur 100% INOX - Intérieur: Acier peint |
| Cajones con rodamientos / Ball-bearing slides / Tiroirs à roulement                                                      | 10                                                                                                                                          |
| Capacidad cajones de altura 55 mm / Capacity in 55 mm height drawers / Capacité des tiroirs de 55 mm de haut             | 30 kg                                                                                                                                       |
| Capacidad cajón 310 x 410 x 83 mm / Drawer capacity 310 x 410 x 83 mm / Capacité du tiroir 310 x 410 x 83 mm             | 25 kg                                                                                                                                       |
| Capacidad cajón 565 x 410 x 83 mm / Drawer capacity 565 x 410 x 83 mm / Capacité du tiroir 565 x 410 x 83 mm             | 25 kg                                                                                                                                       |
| Capacidad de carga estática total / Total static weight capacity / Capacité totale de charge statique                    | 200 kg                                                                                                                                      |
| Sistema de cierre centralizado / Central locking system / Système de fermeture centralisée                               | •                                                                                                                                           |
| Asa lateral reforzada / Reinforced side handle / Poignées latérale renforcée                                             | •                                                                                                                                           |
| Sistema antivuelco en cada bandeja / Anti-overturn system in each drawers / Système anti-renversement dans chaque tiroir | •                                                                                                                                           |



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**EQUIPOS DE PROTECCIÓN INDIVIDUAL**  
**PERSONAL PROTECTION EQUIPMENT**  
**EQUIPEMENTS DE PROTECTION INDIVIDUELLE**  
**PERSÖNLICHE SCHUTZAUSRÜSTUNG**  
**DISPOSITIVI DI PROTEZIONE INDIVIDUALE**  
**EQUIPAMENTOS DE PROTECÇÃO INDIVIDUAL**  
**ПЕРСОНАЛЬНОЕ ЗАЩИТНОЕ ОБОРУДОВАНИЕ**



■ **PROTECCIÓN OCULAR / EYE PROTECTION / PROTECTION OCULAIRE / AUGENSCHUTZ / PROTEZIONE OCULARE / PROTECÇÃO OCULAR / ЗАЩИТА ГЛАЗ**

| Normas CE-EN (Normas de base) / CE-EN Standard (Normative references) / Normes CE-EN (Normes de base) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EN 166</b>                                                                                         | Protección individual de los ojos. Especificaciones / <i>Personal eye-protection. Requirements</i> / Protection individuelle des yeux. Spécifications                                                                                                                                                                                                                                                                                                              |
| <b>EN 167</b>                                                                                         | Protección individual de los ojos. Métodos de ensayos ópticos<br><i>Personal eye-protection. Optical test methods</i><br>Protection individuelle des yeux. Méthodes d'essais optiques                                                                                                                                                                                                                                                                              |
| <b>EN 169</b>                                                                                         | Protección individual de los ojos. Filtros para soldadura y técnicas relacionadas. Especificaciones del coeficiente de transmisión (transmitancia) y uso recomendado<br><i>Personal eye-protection. Filters for welding and related techniques. Transmittance requirements and recommended usage</i><br>Protection individuelle des yeux. Filtres pour soudure et techniques mises en relations. Spécifications du coefficient de transmission et usage recommandé |
| <b>EN 170</b>                                                                                         | Protección individual de los ojos. Filtros para ultravioleta. Especificaciones del coeficiente de transmisión (transmitancia) y uso recomendado<br><i>Personal eye-protection. Ultraviolet filters. Transmittance requirements and recommended use</i><br>Protection individuelle des yeux. Filtres pour ultraviolet. Spécifications du coefficient de transmission et usage recommandé                                                                            |
| <b>EN 171</b>                                                                                         | Protección individual de los ojos. Filtros para el infrarrojo. Especificaciones del coeficiente de transmisión (transmitancia) y uso recomendado<br><i>Personal eye-protection. Infrared filters. Transmittance requirements and recommended use</i><br>Protection individuelle des yeux. Filtres pour infrarouge. Spécifications du coefficient de transmission et usage recommandé                                                                               |
| <b>EN 172</b>                                                                                         | Protección individual de los ojos. Filtros de protección solar para uso laboral<br><i>Personal eye-protection. Sunglare filters for industrial use</i><br>Protection individuelle des yeux. Filtres de protection solaire pour usage professionnel                                                                                                                                                                                                                 |
| <b>EN 175</b>                                                                                         | Protección individual de los ojos. Equipos para la protección de los ojos y la cara durante la soldadura y técnicas afines<br><i>Personal eye-protection. Equipment for eye and face protection during welding and allied processes</i><br>Protection individuelle des yeux. Matériel pour la protection des yeux et du visage durant la soudure et les techniques communes                                                                                        |
| <b>EN 379</b>                                                                                         | Protección individual de los ojos. Filtros automáticos para soldadura<br><i>Personal eye-protection. Automatic filters for welding</i><br>Protection individuelle des yeux. Filtres automatiques pour soudure                                                                                                                                                                                                                                                      |
| <b>EN 1731</b>                                                                                        | Protección individual de los ojos. Protectores oculares y faciales de malla<br><i>Personal eye-protection. Eye and face mesh protectors</i><br>Protection individuelle des yeux. Protecteurs oculaires et faciaux en maille                                                                                                                                                                                                                                        |
| <b>EN 1598</b>                                                                                        | Higiene y seguridad en el soldeo y procesos afines. Cortinas, lamas y pantallas transparentes para procesos de soldeo por arco<br><i>Hygiene and security in welding and similar processes. Curtains, slats and transparent screens for bow-welding processes</i><br>Hygiène et sécurité dans la soudure et les processus communs. Rideaux, et écrans transparents pour les processus de soudage par arc                                                           |

**EN 172**

**Filtros de protección solar para uso laboral**

- Protegen al ojo humano frente a una radiación excesiva.
- Aumentan la comodidad y la percepción visual.
- La correcta elección del filtro dependerá de:
  - El nivel de iluminación ambiental.
  - La sensibilidad individual al deslumbramiento.
- Además de una cierta absorción de la radiación visible los filtros deben asegurar:
  - La protección del ojo en las regiones espectrales ultravioletas.
  - La protección (dependiendo de cada situación) de las infrarrojas.

**Elección del protector ocular**

La selección de un protector ocular adecuado para un riesgo determinado es de vital importancia. De no llevar a cabo la apropiada, los efectos sobre el ojo del usuario pueden variar desde una simple molestia a graves lesiones o pérdida de visión.  
 "Asegúrese de que las gafas de seguridad que utiliza han sido ensayadas y son conformes al apartado 7.1.2. Requisitos ópticos de la norma EN 166. Si están ensayadas, el Certificado CE de Tipo, indicará la Calidad Óptica X, y que es conforme a la EN 166, es decir, a todos los apartados de la norma".

**EN 172**

**Sunglare filters for industrial use**

- Protect human eye from extremely bright conditions.
- Increase comfort and visual perception.
- The right filter choice will depend on:
  - The level of environment lighting.
  - The self sensibility to the blinding.
- Apart from some absorption of the brightness, the filters must ensure:
  - The eye protection in ultraviolet spectral areas.
  - The protection (depending on the situation) to the infrareds.

**Choice of the eye protector**

Selecting an appropriate eye protection for a given risk is vital. If not performed properly, the effects on the user's eye can range from a nuisance to serious injury or loss of vision.  
 "Be sure that the spectacles you handle have been tested and the meet with the point 7.1.2. Optical requirements on the Standard EN 166. If so, on the CE Type certificate, it will be shown the Optical Quality X, and that it is according to the EN 166, that means, to all the points of the Standard".

**EN 172**

**Filtres de protection solaire pour usage au travail**

- Protègent l'œil humain face à la radiation excessive.
- Amplifient le confort et la perception visuelle.
- Le choix correcte du filtre dépendra de:
  - Le niveau d'éclairage environnemental.
  - La sensibilité individuelle de l'éblouissement.
- En plus d'une certaine absorption de la radiation visible les filtres doivent assurer:
  - La protection de l'œil sur les zones spectrales ultravioletes.
  - La protection (en fonction de cha que situation) aux infrarouges.

**Choix de la protection oculaire**

Le choix d'un protecteur oculaire approprié pour un risque déterminé est primordial. Dans le cas ou le choix est incorrecte, les effets sur l'œil de l'utilisateur peuvent varier d'une simple gêne à de graves lésions ou perte de vision.  
 "Assurez-vous que les lunettes de sécurité que vous utilisez ont été testées et sont conformes à la section 7.1.2. Conditions requises de la norme EN 166. Si elles ont été testées, le Certificat CE du Type, indiquera la Qualité Optique X, et qu'il est conforme à la EN 166, c'est-à-dire, à toutes les sections de la norme".

**Símbolos de Resistencia Mecánica / Symbols for Mechanical Strength / Symboles de Résistance Mécanique**

S

Solidez incrementada, resistente a una bola de 22 mm y 43 gr a 12 m/s  
*Increased robustness, resistant to a 22mm and 43gr ball to 12m/s*  
 Solidité augmentée, résistance à une boule de 22 mm et 43 gr à 12 m/s

**Impacto de partículas a alta velocidad / Impacts of high-speed particles / Impact de particules à haute vitesse**

A

Impactos de alta energía, resistente a una bola de 6 mm y 0,86 gr a 190 m/s  
*High energy impacts, resistant to a 6mm and 0,86gr ball to 190m/s*  
 Impacts haute énergie, résistance à une boule de 6 mm et 0,86 gr à 190 m/s

B

Impactos de media energía, resistente a una bola de 6 mm y 0,86 gr a 120 m/s  
*Medium energy impacts, resistant to a 6mm and 0,86gr ball to 120m/s*  
 Impacts moyenne énergie, résistance à une boule de 6 mm et 0,86 gr à 120 m/s

F

Impactos de baja energía, resistente a una bola de 6 mm y 0,86 gr a 45 m/s  
*Low energy impacts, resistant to a 6mm and 0,86gr ball to 45m/s*  
 Impacts basse énergie, résistance à une boule de 6 mm et 0,86 gr à 45 m/s

**Impacto de partículas a alta velocidad y a temperaturas extremas / Impacts of high-speed particles + Extreme Temperatures  
 Impact de particules à haute vitesse et à des températures extrêmes**

AT

Impactos de alta energía a 190 m/s + Temperaturas extremas  
*High energy impacts, 190m/s + Extreme temperatures*  
 Impacts haute énergie à 190 m/s + Températures extrêmes

BT

Impactos de media energía a 120 m/s + Temperaturas extremas  
*Medium energy impacts, 120m/s + Extreme temperatures*  
 Impacts moyenne énergie à 120 m/s + Températures extrêmes

FT

Impactos de baja energía a 45 m/s + Temperaturas extremas  
*Low energy impacts, 45m/s + Extreme temperatures*  
 Impacts basse énergie à 45 m/s + Températures extrêmes

**Riesgos cubiertos / Covered risk / Risques couverts**

K

Resistencia al deterioro superficial por partículas finas  
*Resistance to the surface damage by fine particles*  
 Résistance à la détérioration superficielle par particules fines

N

Resistencia al empañamiento / *Resistance to the fogging of oculars* / Résistance à la buée

**Símbolos de campos de uso / Symbols for fields of use / Symboles de champs d'application**

3

Gotas y salpicaduras de líquidos / *Liquid droplets* / Gouttes et projections de liquides

4

Partículas de polvo gruesas / *Large dust particles* / Particules de poussière épaisse

5

Gas y partículas de polvo finas / *Gas and fine dust particles* / Gaz et particules de poussière fine

8

Arco eléctrico de cortocircuito / *Short circuit electric arc* / Arc électrique de court-circuit

9

Metales fundidos, sólidos candentes / *Molten metals, hot solids* / Métaux fondus, solides brûlants

**Símbolos de Clase Óptica / Optical Class Symbols / Symboles de Classe Optique**

1

Trabajos Continuos. Potencia refractiva esférica  $\pm 0,06$   
*Continuous work. Spherical refractive power  $\pm 0,06$*   
 Travaux Continues. Puissance réfractive sphérique  $\pm 0,06$

2

Trabajos Intermitentes. Potencia refractiva esférica  $\pm 0,12$ .  
*Intermittent work. Spherical refractive power  $\pm 0,12$*   
 Travaux Intermittents. Puissance réfractive sphérique  $\pm 0,12$

3

Trabajos ocasionales. Potencia refractiva esférica  $\pm 0,25$   
*Sporadic work. Spherical refractive power  $\pm 0,25$*   
 Travaux Occasionnels. Puissance réfractive sphérique  $\pm 0,25$

**■ GAFAS POLICARBONATO AJUSTABLES / ADJUSTABLE POLYCARBONATE GLASSES / LUNETTES POLYCARBONATE RÉGLABLES / JUSTIERBARE POLYCARBONAT BRILLE / OCCHIALI REGOLABILI POLICARBONATO / ÓCULOS POLICARBONATO AJUSTÁVEIS / РЕГУЛИРУЕМЫЕ ПОЛИКАРБОНАТНЫЕ ОЧКИ**

**ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES**

|                                                                                                                   |   |
|-------------------------------------------------------------------------------------------------------------------|---|
| Gafas de policarbonato monobloque / Polycarbonate single lens glasses<br>Lunettes de polycarbonate monobloc       | ● |
| Patillas nylon abatibles y ajustables / Adjustable and tilting nylon arms<br>Pates nylon inclinables et réglables | ● |
| Conteras espatuladas / Spatula tips / Branche en forme de spatule                                                 | ● |
| Nariz flexible PVC extra comodidad / Extra comfort integrated PVC nose piece<br>Nez flexible PVC extra confort    | ● |
| Protecciones laterales / Side protection / Protections latérales                                                  | ● |

COD.



35673

100

EN 166, EN 170



**CAMPO DE APLICACIÓN / APPLICATION FIELD / CHAMP D'APPLICATION**

Polycarbonato incoloro antirrayado y antivaho: riesgo mecánico no especificado. Partículas volando  
 Clear polycarbonate antiscratch and antifog: unspecified mechanical hazards (flying particle)  
 Polycarbonato incoloro anti-rayure et anti-vapeur: risque mécanique non spécifiée. Particules s'évaporant  
 Resistente a impactos de baja energía (45 m/s) / Resistant to low energy impacts (45m/s)  
 Résistant aux impacts à base énergie (45 m/s)

COD.



35674

100

EN 166, EN 172



**CAMPO DE APLICACIÓN / APPLICATION FIELD / CHAMP D'APPLICATION**

Polycarbonato gris antirrayado y antivaho: protección solar para uso laboral. UV400 - Contra radiación ultravioleta  
 Grey polycarbonate antiscratch and antifog: sunglare filters for industrial use. UV400 - Against UV radiation  
 Polycarbonato gris anti-rayure et anti-vapeur: protection solaire pour usage professionnel UV400 - Contre radiation ultraviolette  
 Resistente a impactos de baja energía (45 m/s) / Resistant to low energy impacts (45m/s)  
 Résistant aux impacts à base énergie (45 m/s)

■ **PROTECCIÓN AUDITIVA / EAR PROTECTION / PROTECTION AUDITIVE / GEHÖRSCHUTZ / PROTEZIONE AUDITIVA / PROTECÇÃO AUDITIVA / ЗАЩИТА УШЕЙ**

| Normas CE-EN<br>CE-EN Standard<br>Normes CE-EN                                                                                             | Valores / Values / Valeurs                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Exigencias Generales y Métodos de Ensayo / General requirements and Testing / Exigences Générales et Méthodes d'Essai</b>               |                                                                                                                                                                                                                          |
| EN 352-1                                                                                                                                   | Protectores auditivos: orejeras / <i>Hearing protectors: ear-muffs</i> / Protecteurs auditifs: casque antibruit                                                                                                          |
| EN 352-2                                                                                                                                   | Protectores auditivos: tapones / <i>Hearing protectors: ear plugs</i> / Protecteurs auditifs: bouchons d'oreilles                                                                                                        |
| EN 352-3                                                                                                                                   | Protectores auditivos: orejeras acopladas a un casco de protección<br><i>Hearing protectors: ear muffs attached to an industrial safety helmet</i><br>Protecteurs auditifs: serre-têtes montés sur casques de protection |
| <b>Protectores de oído / Hearing protectors / Protecteurs d'oreilles</b>                                                                   |                                                                                                                                                                                                                          |
| EN 352-4 / A1                                                                                                                              | Protectores auditivos: orejeras independientes de nivel / <i>Hearing protectors: level dependent ear-muffs</i><br>Protecteurs auditifs: serre-têtes à atténuation indépendantes de niveau                                |
| EN 352-5                                                                                                                                   | Protectores auditivos: orejeras con reducción activa de ruido / <i>Hearing protectors: active noise reduction ear-muffs</i><br>Protecteurs auditifs: serre-têtes avec atténuation active du bruit                        |
| EN 352-6                                                                                                                                   | Protectores auditivos: orejeras con entrada eléctrica de audio / <i>Hearing protectors: ear-muff with electrical audio input</i><br>Protecteurs auditifs: serre-têtes avec entrée audio-électrique                       |
| EN 352-7                                                                                                                                   | Protectores auditivos: tapones dependientes de nivel / <i>Hearing protectors: level dependent ear-plugs</i><br>Protecteurs auditifs: bouchons d'oreilles à atténuation dépendante de niveau                              |
| EN 352-8                                                                                                                                   | Protectores auditivos: orejeras con audio de entretenimiento / <i>Hearing protectors: entertainment audio ear-muffs</i><br>Protecteurs auditifs: serre-têtes équipés d'un dispositif audio de divertissement             |
| <b>Documento Guía para los protectores de oído / Guidance document for each protectors / Document Guide pour les protecteurs d'oreille</b> |                                                                                                                                                                                                                          |
| EN 458                                                                                                                                     | Protectores auditivos: selección, uso, precauciones de empleo y mantenimiento<br><i>Hearing protectors: selection, use, care and maintenance</i> / Auditifs: sélection, utilisation, précautions d'emploi et entretien   |

| <b>Valores límite de exposición y acciones / Exposure limit values and actions / Valeurs limite d'exposition et d'actions</b> |                                                               |                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                               | <b>Valores / Values / Valeurs</b>                             | <b>Acciones / Actions / Actions</b>                                                                                                                                                                                                                      |
| Valores límite de exposición<br><i>Exposure limit values</i><br>Valeurs limite d'exposition                                   | LEX, 8h = 87 dB (A) y<br>Ppico / Ppeak / PPic = 200<br>Pa (1) | En ningún caso se deben superar los valores límites de exposición<br><i>Exposure limit values must not be exceeded</i><br>Il ne faut en aucun cas dépasser les valeurs limites d'exposition                                                              |
| Valores superiores de exposición<br><i>Exposure upper values</i><br>Valeurs supérieurs d'exposition                           | LEX, 8h = 85 dB (A) y<br>Ppico / Ppeak / PPic = 140<br>Pa (2) | Se utilizarán protectores auditivos. Obligatorio<br><i>Ear protectors must be used. Compulsory</i><br>Il faut utiliser des protecteurs auditifs. Obligatoire                                                                                             |
| Valores inferiores de exposición<br><i>Exposure lower values</i><br>Valeurs inférieurs d'exposition                           | LEX, 8h = 80 dB (A) y<br>Ppico / Ppeak / PPic = 112<br>Pa (3) | El empresario pondrá a disposición de los trabajadores protectores auditivos. Opcionales<br><i>Manager could give worker ear protectors. Optional</i><br>Le chef d'entreprise mettra à disposition des travailleurs des protecteurs auditifs. Optionnels |

**Elección del protector auditivo**

Según la Directiva 2003/10/CE del 06/05/2003, publicada el 15/02/2003 y aplicable a partir de 2006, los usuarios dispondrán del protector auditivo adecuado a partir del ruido constante de 80 dB. Más allá de este umbral de seguridad podrían aparecer lesiones.

**Indispensable para conocer el protector auditivo:**

- Conocer la intensidad del ruido.
- Conocer el SNR del protector auditivo.

**Cálculo para elegir el protector más idóneo:**

$$\begin{array}{r} \text{ruido: } 100 \text{ dB} \\ - \\ \text{snr: } 27 \text{ dB} \\ \hline 73 \text{ dB} * \end{array}$$

\* Protección adecuada a menos de 80 dB.



**No descender de 65 dB**  
**Riesgo de sobreprotección**

**Choice of the ear protector**

According to the Directive 2003/10/EC of the 06/05/2003, published the 15/02/2003 and applicable from 2006, the users will have the appropriate ear protector up to the constant noise of 80 dB. Beyond this security limit could appear injuries.

**Essential to know the ear protector:**

- Know the noise intensity.
- Know the SNR of the ear protector.

**Calculation to choose the most suitable protector:**

$$\begin{array}{r} \text{noise: } 100 \text{ dB} \\ - \\ \text{snr: } 27 \text{ dB} \\ \hline 73 \text{ dB} * \end{array}$$

\* Suitable protection at less than 80 dB.



**No go down from 65 dB**  
**Overprotection risk**

**Choix du protecteur auditif**

Selon la directive 2003/10/CE du 06/05/2003, publiée le 15/02/2003 et applicable à partir de 2006, les usagers disposeront du protecteur auditif adapté à partir d'un bruit constant de 80 dB. Au-delà de ce seuil de sécurité des lésions peuvent apparaître.

**Indispensable pour connaître le protecteur auditif :**

- Connaître l'intensité du bruit.
- Connaître le SNR du protecteur auditif.

**Calcul pour choisir le protecteur le mieux adapté:**


$$\begin{array}{r} \text{bruit : } 100 \text{ dB} \\ - \\ \text{snr: } 27 \text{ dB} \\ \hline 73 \text{ dB} * \end{array}$$

\* Protection adaptée à moins de 80 dB.



**Ne pas passer sous la barre de 65dB**  
**Risque de surprotection**

■ AURICULARES / EAR-MUFFS / CASQUES ANTIBRUIT / OHRENSCHÜTZER / CUFFIE / AURICULARES / НАУШНИКИ

| COD.  |       |  |
|-------|-------|-----------------------------------------------------------------------------------|
| 35675 | 30 dB | 210                                                                               |

EN 352-1



■ ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ

| COD.  | Descripción / Description / Description                               |                      |
|-------|-----------------------------------------------------------------------|----------------------|
| 35676 | Almohadillas para auricular / Headphone pads<br>Coussinet pour casque | 1 par / pair / paire |



| COD.  | Descripción / Description / Description                                                 |                      |
|-------|-----------------------------------------------------------------------------------------|----------------------|
| 35677 | Foam interior para auricular / Headphone interior foam<br>Mousse intérieure pour casque | 1 par / pair / paire |



ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                                                                                                                |   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| Indicados para puestos de trabajo con alto nivel de exposición al ruido / Suitable for working positions with high level of noise exposure<br>Recommandés pour les postes de travail avec un haut niveau d'exposition au bruit | ● |
| Excelente atenuación / Excellent attenuation / Excellente atténuation                                                                                                                                                          | ● |
| Máxima comodidad / Maximum comfort / Confort maximum                                                                                                                                                                           | ● |
| Almohadillas de PVC especial / Foam headband made from special PVC / Coussinets en PVC spécial                                                                                                                                 | ● |
| Arnés de fibra de vidrio ajustable / Adjustable glass fibre Nylon harness / Harnais en fibre de verre réglable                                                                                                                 | ● |
| Extensión longitudinal de adaptación / Length adjustment headband / Longueur du serre-tête réglable                                                                                                                            | ● |
| Cazoletas giratorias en todas direcciones / Ear Cups can rotate in all directions / Coquilles tournantes dans tous les sens                                                                                                    | ● |

DATOS DE ATENUACIÓN / ATTENUATION INFORMATION / DONNÉES D'ATTÉNUATION  
 EN 352-1

| Almohadilla con arnés / Foam headband with harness / Coussinet avec harnais |      |      |      |      |      |      |      |      |
|-----------------------------------------------------------------------------|------|------|------|------|------|------|------|------|
| Frecuencia / Frequency / Fréquence (Hz)                                     | 63   | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
| Atenuación / Attenuation / Atténuation (dB)                                 | 18,3 | 15,8 | 20,4 | 29,6 | 35,8 | 34,8 | 35,7 | 39,5 |
| Desviación Standard / Standard Deviation / Déviation Standard (dB)          | 4,2  | 3,0  | 2,3  | 2,6  | 2,5  | 4,0  | 4,1  | 5,0  |
| Protección Asumida / Assumed Protection / Protection Garantie (dB)          | 14,1 | 12,8 | 18,2 | 27,0 | 33,3 | 30,8 | 31,6 | 34,4 |
| H = 32,2 dB M = 27,7 dB L = 19,8 dB SNR = 30 dB                             |      |      |      |      |      |      |      |      |



■ PROTECCIÓN DE LA CABEZA / HEAD PROTECTION / PROTECTION DE LA TÊTE / KOPFSCHUTZ / PROTEZIONE DELLA TESTA / PROTECÇÃO DE CABEÇA / ЗАЩИТА ГОЛОВЫ

| Normas CE-EN<br>CE-EN Standard<br>Normes CE-EN                           | Descripción / Description / Description                                                                                                                                                                                                                              |
|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cascos industriales / Industrial helmets / Casques industriels</b>    |                                                                                                                                                                                                                                                                      |
| EN 397                                                                   | Cascos de protección para la industria / Protection helmets for the industry / Casques de protection pour l'industrie                                                                                                                                                |
| EN 50365                                                                 | Cascos eléctricamente aislantes para la utilización en instalaciones de baja tensión<br>Electrically isolating helmets for the usage in low tension installations<br>Casques électriquement isolants utilisés pour l'utilisation dans les installations sous tension |
| EN 812                                                                   | Cascos de protección contra golpes para la industria / Protection helmets against shocks for industry<br>Casquettes de protection anti-heurt pour l'industrie                                                                                                        |
| <b>Cascos de protección / Protection helmets / Casques de protection</b> |                                                                                                                                                                                                                                                                      |
| EN 13087-1                                                               | Condiciones y acondicionamiento / Conditions and conditioning / Conditions et conditionnement                                                                                                                                                                        |
| EN 13087-2                                                               | Absorción de choques / Impacts absorption / Absorptions des chocs                                                                                                                                                                                                    |
| EN 13087-3                                                               | Resistencia a la perforación / Resistance to the perforation / Résistance à la pénétration                                                                                                                                                                           |
| EN 13087-4                                                               | Eficacia del sistema de retención / Retention system efficiency / Efficacité du système de rétention                                                                                                                                                                 |
| EN 13087-5                                                               | Resistencia del sistema de retención / Resistance to the retention system / Résistance du système de rétention                                                                                                                                                       |
| EN 13087-6                                                               | Campo de visión / Field of vision / Champ de vision                                                                                                                                                                                                                  |
| EN 13087-7                                                               | Resistencia a la llama / Flame retardant / Résistance à la flamme                                                                                                                                                                                                    |
| EN 13087-8                                                               | Propiedades eléctricas / Electrical properties / Propriétés électriques                                                                                                                                                                                              |
| EN 13087-10                                                              | Resistencia al calor radiante / Resistant to the radiant heat / Résistance à la chaleur radiante                                                                                                                                                                     |



■ CASCO / HELMET / CASQUE / HELM / ELMETTO / САРАСЕТЕ / ШЛЕМ

| COD.         |  |
|--------------|-----------------------------------------------------------------------------------|
| <b>35678</b> | 340                                                                               |

EN 397

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES |   |
|--------------------------------------------------------------------------|---|
| Ventilación / Ventilation / Ventilation                                  | ● |
| Visera / Cap / Visiere                                                   | ● |
| Ruleta reguladora / Regulatory roulette / Roulette regulatrice           | ● |



| COD.         |  |
|--------------|-----------------------------------------------------------------------------------|
| <b>35679</b> | 340                                                                               |

EN 397 / EN 50365

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES |   |
|--------------------------------------------------------------------------|---|
| Ventilación / Ventilation / Ventilation                                  | - |
| Visera / Cap / Visiere                                                   | ● |
| Ruleta reguladora / Regulatory roulette / Roulette regulatrice           | ● |



**Características**

- Casco de protección, con una visera corta a lo largo, destinado a trabajos de altura en el campo de la construcción, obras públicas e industria.
- Formado por un casco y un arnés.

**Casco formado por:**

- Casco moldeado bajo presión de A.B.S.
- Portalámparas integrado.
- Modelos con (Cod. 35678) o sin (Cod. 35679) ventilación.
- Resistente a bajas temperaturas, -30 °C.
- Aislamiento eléctrico para los modelos sin ventilación (EBT). Símbolo 440 V. - Cod. 35679.
- Casco eléctricamente aislante. - Cod. 35679.
- Utilizados simultáneamente con otros equipos de protección eléctricamente aislantes, previenen el paso de una corriente peligrosa a través de las personas entrando por la cabeza. Válido para modelos sin ventilación.
- Resistente a salpicaduras de metales fundidos.
- Duración de la utilización: 48 meses.
- Válido para su uso con el adaptador para auricular Cod. 35682.

**Arnés compuesto por:**

- Un arnés textil con 4 puntos de fijación.
- Un adaptador de cabeza de polietileno de baja densidad ajustable desde 53-63 cm.
- Incorpora una maneta autobloqueante en la parte posterior de la nuca y una sudadera de confort de 32 cm.

**Characteristics**

- *Safety helmet, with a short cap made for working at heights, in the buildings, public works and industry fields.*
- *Formed by a helmet and a harness.*

**Helmet formed by:**

- *Helmet molded under A.B.S pressure.*
- *Lamp socket integrated.*
- *Models with (Cod. 35678) or without (Cod. 35679) ventilation.*
- *Resistant to low temperatures, -30°C.*
- *Electrical isolation for models without ventilation(EBT). 440 V Symbol - Cod. 35679.*
- *Electrically insulating helmet - Cod. 35679*
- *Used in conjunction with other electrically insulating protective equipment prevent dangerous current from passing through persons via their head. Valid for the model without ventilation.*
- *Resistant to molten metals.*
- *Usage duration: 48 months.*
- *Valid for the use with the ear muff adaptor Cod. 35682.*

**Harness formed by:**

- *A textile harness with 4 fixing points.*
- *A low density polythene head adapter adjustable from 53-63cm.*
- *Includes a lever on the back of the neck locking and a comfort sweatshirt of 32cm.*

**Caractéristiques**

- Casque de protection, avec une visière courte autour, destinée aux travaux en hauteur, dans le domaine de la construction, travaux publics et en industrie.
- Composé d'un casque et d'un harnais.

**Casque composé de:**

- Casque moulé sous pression en ABS.
- Douille intégrée.
- Modèles avec (cod 35678) ou sans (Cod. 35679) ventilation.
- Résistants aux températures basses, de -30°
- Isolation thermique pour les modèles non ventilés (EBT). Symbole 440V - Cod. 35679.
- Casque électriquement isolant - Cod. 35679.
- Utilisés simultanément avec d'autres équipements de protection électriquement isolants, empêchant les courants dangereux de traverser les personnes par la tête. Valable pour les modèles sans ventilation.
- Résistant aux projections de métal en fusion.
- Durée d'utilisation: 48 mois.
- Valable pour être utilisé avec un adaptateur pour écouteur Cod. 35682.

**Harnais composé de:**

- Un harnais textile avec 4 points de fixation.
- Un tour tête en polyéthylène de basse densité réglable de 53-63 cm.
- Une poignée antiblocage est incorporée derrière la nuque ainsi qu'un bandeau anti-sueur de 32 cm.

■ ACCESORIOS / ACCESSORIES / ACCESSOIRES / ERSATZTEILE / ACCESSORI / ACESSORIOS / ЗАПАСНЫЕ ЧАСТИ

| COD.  |       |  | Descripción / Description / Description |
|-------|-------|-----------------------------------------------------------------------------------|-----------------------------------------|
| 35682 | 27 dB | 250                                                                               | Auricular / Ear-muffs / Casque          |

EN 352-3

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                               |     |
|-----------------------------------------------------------------------------------------------|-----|
| Cazoletas ajustables en altura<br><i>Cups adjustable in height</i>                            | •   |
| Coquilles réglables en hauteur                                                                |     |
| Cazoletas giratorias en todas las direcciones<br><i>Ear cups can rotate in all directions</i> | •   |
| Coquilles giratoires dans tous les sens                                                       |     |
| Adaptador a casco<br><i>Helmet adaptor</i>                                                    | ABS |
| Adaptateur pour casque                                                                        |     |
| Cazoletas / Cups / Coquilles                                                                  | ABS |

| COD.  | Descripción / Description / Description                                                                 |
|-------|---------------------------------------------------------------------------------------------------------|
| 35681 | Visor policarbonato incoloro<br><i>Colourless polycarbonate visor</i><br>Visière polycarbonate Incolore |

EN 166

| COD.  | Descripción / Description / Description                                                                     |
|-------|-------------------------------------------------------------------------------------------------------------|
| 35680 | Adaptador a casco screen holder<br><i>Screen holder helmet adapter</i><br>Adaptateur à casque screen holder |

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                                                                                                                                           |                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Visor policarbonato incoloro + screen holder a casco<br><i>Colourless polycarbonate visor + helmet screen holder</i><br>Visière polycarbonate incolore + screen holder à casque                           | •                                                                                   |
| Visor de protección facial y adaptador de perfil ajustable en longitud<br><i>Face protection visor and length adjustable</i><br>Visière de protection faciale y adaptateur de profil réglable en longueur | •                                                                                   |
| Protección contra pequeñas salpicaduras de líquido<br><i>Protection against small liquid droplets</i><br>Protection contre les petites projections de liquide                                             | •                                                                                   |
| Protección contra impactos a baja energía (45 m/s)<br><i>Protection against low energy impacts (45m/s)</i><br>Protection contre les impacts basse énergie (45 m/s)                                        | •                                                                                   |
| Peso visor + screen holder<br><i>Visor + screen holder weight</i><br>Poids de la visière + screen holder                                                                                                  | 175 gr                                                                              |
| Adaptador / Adapter / Adaptateur Cod. 35680                                                                                                                                                               | ABS                                                                                 |
| Visor / Visor / Visière Cod. 35681                                                                                                                                                                        | Policarbonato incoloro<br><i>Colourless Polycarbonate</i><br>Polycarbonate incolore |



# PROYECTOS PRINCIPALES

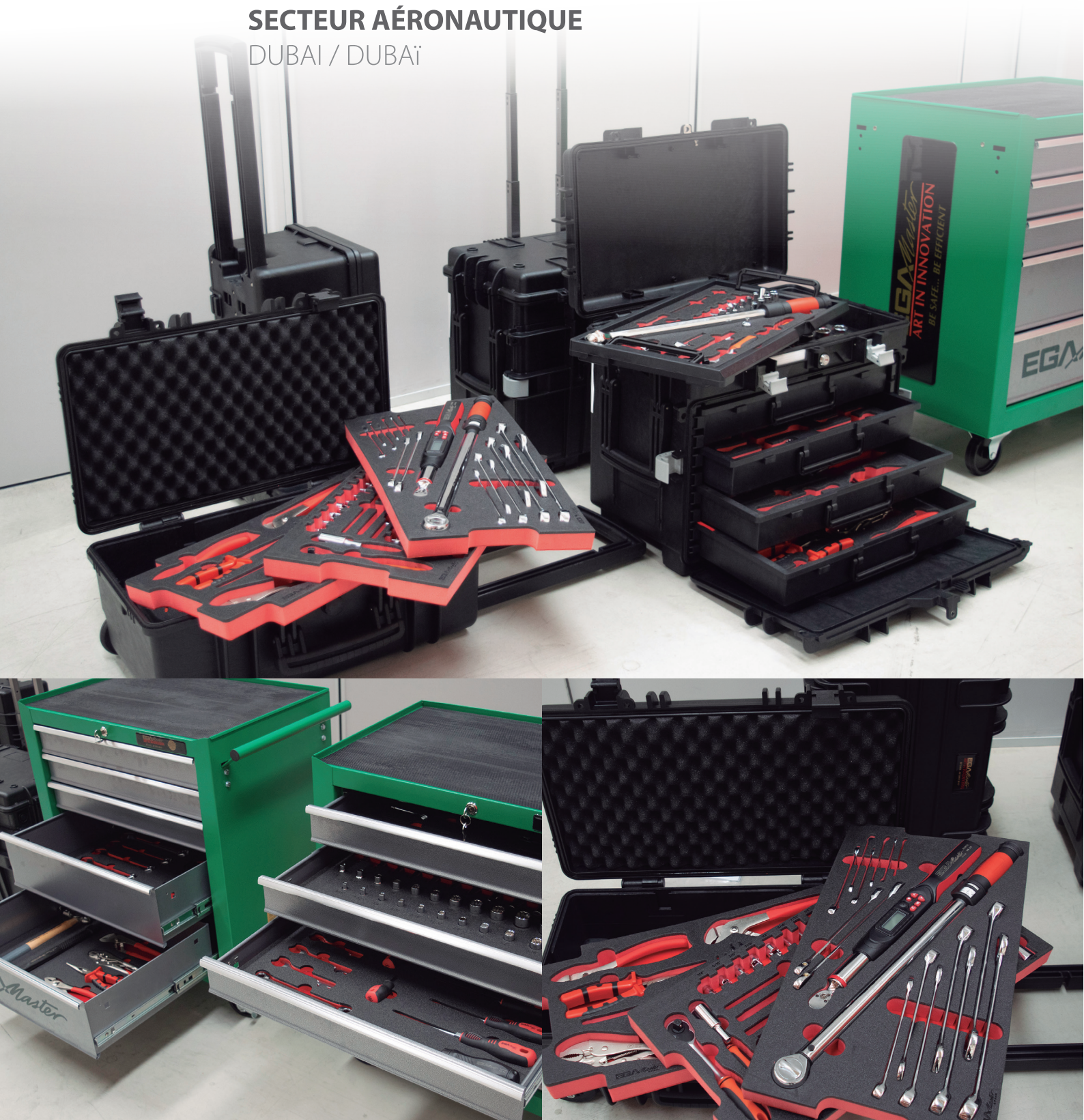
## *MAIN PROJECTS*

# PRINCIPAUX PROJETS

### **EIGHT WINGS**

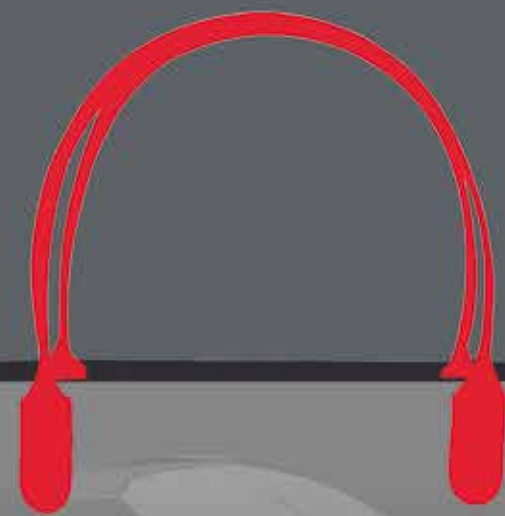
**SECTOR AERONÁUTICO / AEROSPACE SECTOR /  
SECTEUR AÉRONAUTIQUE**

DUBAI / DUBAÏ



43

ARTÍCULOS PROMOCIONALES  
PROMOTIONAL ITEMS  
ARTICLES PROMOTIONNELS  
WERBEARTIKEL  
ARTICOLI PROMOZIONALI  
ARTIGOS PROMOCIONAIS  
РЕКЛАМНАЯ ПРОДУКЦИЯ



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NI

| COD.  | PCS.                                    |                         |  |
|-------|-----------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 50086 | 11                                      | 50974                                                                                                    | 4,0                                                                                 |
| PCS.  | Composición / Composition / Composition | Descripción / Description / Description                                                                  |                                                                                     |
|       | 62299                                   | Alicate corte diagonal Mastercut / Diagonal cutting plier Mastercut 160mm                                |                                                                                     |
|       | 76611                                   | Alicate universal Mastercut 1000V / Combination plier Mastercut 1000V 235mm                              |                                                                                     |
|       | 63915                                   | Cortabridas / Plastic tie cutter -                                                                       |                                                                                     |
|       | AD562957                                | Llave de estrella de golpe de seguridad total / Impact offset ring wrench total security 27mm            |                                                                                     |
|       | 64502                                   | Soporte demostración Mastergear / Demo-block -                                                           |                                                                                     |
| 1     | 62685                                   | Llave combinada de carraca reversible Mastergear / Reversible Mastergear combination ratchet wrench 13mm |                                                                                     |
|       | 61727                                   | Llave combinada satinada cromado aeroespacial / Combination wrench aerospace chrome plating 8mm          |                                                                                     |
|       | 70172                                   | Llave combinada antichispa Cu-Be / Non sparking combination wrench Cu-Be 8mm                             |                                                                                     |
|       | 70684                                   | Llave combinada antichispa Al-Bron / Non sparking combination wrench Al-Bron 8mm                         |                                                                                     |
|       | 73062                                   | Llave fija una boca 1000V / Single ended open jaw wrench 1000V 8mm                                       |                                                                                     |
|       | 57581                                   | Llave refinería para tubo y válvulas / Refinery pipe and valve wrench 10mm                               |                                                                                     |

EGGA Master  
ART IN INNOVATION



| COD.  | PCS. |  |  |
|-------|------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 51530 | 25   | 50994 (2)                                                                         | 12,5                                                                                |
| 34000 |      | 58608                                                                             | 22                                                                                  |

| PCS. | Composición / Composition / Composition | Descripción / Description / Description                                                     |           |
|------|-----------------------------------------|---------------------------------------------------------------------------------------------|-----------|
|      | 66062                                   | Cordón anticaída retráctil con mosquetón / Retractable lanyard with carabiner               | 400mm     |
|      | 63915                                   | Cortabridas / Plastic tie cutter                                                            | -         |
|      | 66405                                   | Destornillador mecánico / Slotted screwdriver                                               | 6,5 X 150 |
|      | 66890                                   | Destornillador electricista / Electrician screwdriver                                       | 5 X 150   |
|      | 66053                                   | Porta-tornillos magnético / Magnetic screwholder                                            | ø5,5-6    |
|      | 71669                                   | Llave combinada titanio / Titanium combination wrench                                       |           |
|      | 70684                                   | Llave combinada antichispa Al-Bron / Non sparking combination wrench Al-Bron                |           |
|      | 70172                                   | Llave combinada antichispa Cu-Be / Non sparking combination wrench Cu-Be                    | 8mm       |
|      | 73062                                   | Llave fija una boca 1000V / Single ended open jaw wrench 1000V                              |           |
|      | 61627                                   | Llave combinada pulido espejo / Combination wrench mirror polished chrome plating           |           |
|      | 61727                                   | Llave combinada satinada cromado aeroespacial / Combination wrench aerospace chrome plating |           |
|      | 64502                                   | Soporte demostración Mastergear / Demo-block                                                | -         |
| 1    | 62656                                   | Llave combinada de carraca Mastergear / Mastergear combination ratchet wrench               | 13mm      |
|      | 63204                                   | Cortatubos para tubo de plástico Piraina / Plastic pipe cutter Piraina                      | 42mm      |
|      | 63119                                   | Cortatubos Unique / Tube cutter unique                                                      |           |
|      | 61406                                   | Llave Mastergrip / Mastergrip wrench                                                        | 14"       |
|      | 61015                                   | Llave heavy duty / Heavy duty wrench                                                        | 10"       |
|      | 62706                                   | Tenaza de canal auto grip efecto muelle / Auto grip box joint plier spring effect           | 7"        |
|      | 62299                                   | Alicate corte diagonal Mastercut / Diagonal cutting plier Mastercut                         | 160mm     |
|      | 76611                                   | Alicate universal Mastercut 1000V / Combination plier Mastercut 1000V                       | 235mm     |
|      | 69704                                   | Martillo bola fibra de vidrio / Ball pein hammer fiberglass                                 | MOD. A    |
|      | 57427                                   | Llave de golpe seguridad total / Total safety slogging wrenches                             | 24mm      |
|      | 61221                                   | Llave ajustable gran apertura / Wide opening adjustable wrench                              | 8"        |
|      | 57581                                   | Llave refinería para tubo y válvula / Refinery pipe and valve wrench                        |           |
|      | 62096                                   | Tenaza grip multiposición de gran capacidad / Multiposition large capacity grip plier       | 10"       |

■ TABLET PC ANDROID / ANDROID TABLET PC / TABLETTE PC ANDROID / ANDROID-TABLET-PC / TABLET PC ANDROID / TABLET PC ANDROID / ТАБЛЕТ РС АНДРОИД

|                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| COD.                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 64852                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Sistema operativo / Operating system / Système opérationnel              | ANDROID 4.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Dimensiones / Dimensions / Dimensions                                    | 265 x 160 x 12 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Accesorios / Accessories / Accessoires                                   | Cargador. Entrada: 100-240V/3A 50-60HZ. Salida: 5V-2.0A. Enchufe europeo Tipo F   Auriculares   Cable adaptador mini USB macho-USB hembra   Mini USB macho-USB macho / Power adaptor: input: 100-240 V / 50-60 HZ-Output: 5V-2.0A. European plug Type F   Earphones   Mini USB male-USB female cable adaptor   Mini USB male-USB male / Chargeur: entrée: 100-240 V / 50-60 HZ-Sortie: 5 V-2.0 A. Prise européenne Type F   Écouteurs   Câble adaptateur mini USB mâle-USB femelle   Mini USB mâle-USB mâle |
| Pantalla / Screen / Écran                                                | Pantalla táctil resistente de alta sensibilidad. Resolución 1024 x 600 pixel / High-sensitive resistance touch screen. Resolution 1024 x 600 pixel / Écran tactile résistant de haute sensibilité. Résolution 1024 x 600 pixel                                                                                                                                                                                                                                                                              |
| Cámara / Camera / Cámara                                                 | 0.3 MP: Cámara frontal - 2.0 MP: Cámara posterior / 0.3 MP: Front camera - 2.0 MP: Back camera / 0.3 MP: Caméra frontale - 2.0 MP: Caméra arrière                                                                                                                                                                                                                                                                                                                                                           |
| Color / Colour / Couleur                                                 | Blanca / White / Blanche                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Procesador / Processor / Processeur                                      | QUAD CORE ARM V7 1,32 GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Capacidad de disco duro / Hard drive capacity / Capacité du disque dur   | RAM: 1 GB DDR / ROM: 8 GB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Tarjeta gráfica / Graphics card / Carte graphique                        | Integrada / Integrated / Intégrée                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Wi-fi                                                                    | 802.11 b/g/n                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Interfaz / Interface / Interface                                         | ETHERNET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Micro HDMI                                                               | ●                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Bluetooth                                                                | ●                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Micro USB                                                                | ●                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Puertos USB / USB ports / Ports USB                                      | ●                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Entrada para tarjeta TF / Built in TF slot / Entrée pour carte TF        | ●                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Batería de litio / Lithium battery / Batterie en lithium                 | 3800 mAh                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Autonomía / Autonomy / Autonomie                                         | 2-6 horas / 2-6 hours / 2-6 heures                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Soporte / Support / Support                                              | 3G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Pantalla táctil TFT / Screen Size / Écran tactile TFT                    | 10.1"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Peso / Weight / Poids                                                    | 510 gr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |



■ SOPORTE FLEXIBLE PARA TABLET PC / FLEXIBLE HOLDER FOR TABLET PC / SUPPORT FLEXIBLE POUR TABLETTE PC / FLEXIBELE HALTER F/TABLET PC / SUPPORTO FLESSIBILE PER TABLET PC / SUPORTE FLEXÍVEL PARA TABLET / ГИБКАЯ ПОДСТАВКА ДЛЯ ПЛАНШЕТА

|                                                                                     |  |
|-------------------------------------------------------------------------------------|--|
| COD.                                                                                |  |
| 64853                                                                               |  |
|  |  |
| 7-10"                                                                               |  |





■ CATÁLOGOS / CATALOGUES / CATALOGUES / KATALOGE / CATALOGHI / CATÁLOGOS / КАТАЛОГИ

■ CATÁLOGO GENERAL / GENERAL CATALOGUE / CATALOGUE GÉNÉRAL / KATALOG / CATALOGO / CATÁLOGO / КАТАЛОГ

COD.

64842



■ CATÁLOGO SEGURIDAD / SAFETY CATALOGUE / CATALOGUE DE SECURITÉ / SICHERHEITSKATALOG / CATALOGO DI SICUREZZA / CATÁLOGO SEGURANÇA / КАТАЛОГ БЕЗОПАСНОГО ИНСТРУМЕНТА

COD.

64608



■ CATÁLOGO DE HERRAMIENTA PARA CONSTRUCCIÓN / TOOLS FOR CONSTRUCTION CATALOGUE / CATALOGUE D'OUTILLAGES POUR CONSTRUCTION / WERKZEUGE FÜR DEN BAU-KATALOG / CATALOGO DI UTENSILI PER EDILIZIA / CATÁLOGO DE FERRAMENTA PARA CONSTRUÇÃO / КАТАЛОГ СТРОИТЕЛЬНОГО ИНСТРУМЕНТА

COD.

65704



■ CATÁLOGO DE HERRAMIENTAS PARA MECÁNICA / HAND TOOLS FOR MECHANICS CATALOGUE / CATALOGUE D'OUTILS POUR MÉCANIQUE / HANDWERKZEUGE FÜR MECHANIKER-KATALOG / CATALOGO PER UTENSILERIA MECCANICA / CATÁLOGO DE FERRAMENTA MANUAL PARA MECÂNICA / КАТАЛОГ РУЧНОГО ИНСТРУМЕНТА ДЛЯ МЕХАНИКА

COD.

64843



■ LIBRO "EL MÉTODO DEL CASO EGAMASTER" / "THE EGA MASTER CASE STUDY" BOOK / LIVRE "LA MÉTHODE DU CAS EGA MASTER" / "DER FALL EGA MASTER" BUCH / LIBRO "IL METODO DEL CASO EGA MASTER" / LIVRO "O MÉTODO DA EGA MASTER" / КНИГА "EGA MASTER: МЕТОДЫ УСПЕХА"

COD.

Idiomas / Languages / Langues

64908

CASTELLANO

64909

ENGLISH

64905

FRANÇAIS

65019

DEUTSCH

65063

ITALIANO

64903

PORTUGUÊS

64910

EUSKERA

65720

РУССКИЙ

65020

日本語

65726

עברית



**CARPETA CORPORATIVA / CORPORATE FOLDER / DOSSIER CORPORATIF / UNTERNEHMENSORDNER / CARTELLA AZIENDALE / CAPA CORPORATIVA / КОРПОРАТИВНЫЙ ПРОСПЕКТ**

| COD.  | Idiomas / Languages / Langues |
|-------|-------------------------------|
| 64233 | CASTELLANO                    |
| 64234 | ENGLISH                       |
| 64603 | FRANÇAIS                      |



**ADHESIVO PUBLICITARIO / ADVERTISING STICKER / AUTOCOLLANT PUBLICITAIRE / WERBEAUFKLEBER / ADESIVO PUBBLICITARIO / AUTOCOLANTE PUBLICITÁRIO / РЕКЛАМНЫЙ СТИКЕР**

| COD.  | L x W (mm) | Idiomas / Languages / Langues |
|-------|------------|-------------------------------|
| 64604 | 600 x 240  | CASTELLANO                    |
| 64606 |            | FRANÇAIS                      |



**POSTERS PROMOCIONALES / PROMOTIONAL POSTERS / AFFICHES PROMOTIONNELS / WERBEPLAKATE / POSTER PROMOZIONALI / POSTERS PROMOCIONAIS / РЕКЛАМНЫЕ ПОСТЕРЫ**

**POSTER PREMIOS / AWARD PRIZE POSTER / AFFICHE DES PRIX / POSTER - AUSZEICHNUNGEN / POSTER PREMI / POSTER DE PRÉMIOS / ПЛАКАТ С НАГРАДАМИ**

| COD.  | L x W (mm) | Idiomas / Languages / Langues |
|-------|------------|-------------------------------|
| 64661 | 470 x 670  | CASTELLANO                    |
| 64662 |            | ENGLISH                       |
| 64663 |            | FRANÇAIS                      |



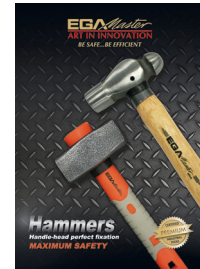
**POSTER PRODUCTOS / PRODUCT POSTER / AFFICHE DE PRODUITS / WERBE POSTER - PRODUKTE / POSTER PRODOTTO / POSTER DE PRÉMIOS / ПЛАКАТ С НАГРАДАМИ**

| COD.  | L x W (mm) | Idiomas / Languages / Langues |
|-------|------------|-------------------------------|
| 64656 | 500 x 670  | CASTELLANO                    |
| 64657 |            | ENGLISH                       |
| 64658 |            | FRANÇAIS                      |
| 64659 |            | ITALIANO                      |
| 64660 |            | PORTUGUÉS                     |



■ POSTER MARTILLOS / HAMMER POSTER / AFFICHE DE MARTEAUX / HAMMER-PLAKAT / POSTER MARTELLI / POSTER MARTELOS / ПОСТЕР «МОЛОТКИ И КУВАЛДЫ»

| COD.  | L x W (mm) | Idiomas / Languages / Langues |
|-------|------------|-------------------------------|
| 90346 | 700x1000   | CASTELLANO                    |
| 90347 |            | ENGLISH                       |



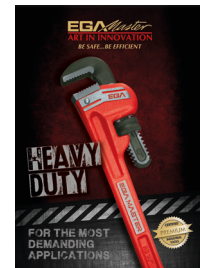
■ POSTER ALICATES / PLIER POSTER / AFFICHE DE PINCES / ZANGE-PLAKAT / POSTER PINZE / POSTER ALICATES / ПОСТЕР «ПЛОСКОГУБЦЫ»

| COD.  | L x W (mm) | Idiomas / Languages / Langues |
|-------|------------|-------------------------------|
| 90354 | 700x1000   | CASTELLANO                    |
| 90355 |            | ENGLISH                       |



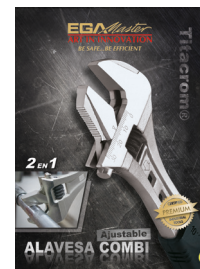
■ POSTER HEAVY DUTY / HEAVY DUTY POSTER / AFFICHE DE HEAVY DUTY / HOCHLEISTUNGSPAKAT / POSTER HEAVY DUTY / POSTER HEAVY DUTY / ПОСТЕР «ИНСТРУМЕНТЫ ДЛЯ БОЛЬШИХ НАГРУЗОК»

| COD.  | L x W (mm) | Idiomas / Languages / Langues |
|-------|------------|-------------------------------|
| 90356 | 700x1000   | CASTELLANO                    |
| 90357 |            | ENGLISH                       |



■ POSTER LLAVE ALAVESA / BASQUE WRENCH POSTER / AFFICHE DE "CLÉ BASQUE" / BASKENSCHLÜSSELPLAKAT / POSTER CHIAVE BASCA / POSTER CHAVE ALAVESA / ПОСТЕР «КЛЮЧИ БАСКСКОГО ТИПА»

| COD.  | L x W (mm) | Idiomas / Languages / Langues |
|-------|------------|-------------------------------|
| 90358 | 700x1000   | CASTELLANO                    |
| 90359 |            | ENGLISH                       |



■ VESTUARIO LABORAL / WORKWEAR / VÊTEMENTS DE TRAVAIL / ARBEITSKLEIDUNG / ABBIGLIAMENTO DA LAVORO / VESTUÁRIO LABORAL / РАБОЧАЯ ОДЕЖДА

■ CAMISA / SHIRT / CHEMISE / SHIRT / CAMICIA / CAMISA / РУБАШКА

| COD.  | Tallas / Sizes / Tailles |
|-------|--------------------------|
| 90349 | S                        |
| 90350 | M                        |
| 90351 | L                        |
| 90352 | XL                       |
| 90353 | XXL                      |



■ CAMISETA / T-SHIRT / TEE-SHIRT / T-SHIRT / MAGLIETTA / CAMISETA / ФУТБОЛКА

| COD.  | Tallas / Sizes / Tailles |
|-------|--------------------------|
| 64836 | XL                       |



■ POLO / T-SHIRT WITH COLLAR / POLO / POLOHEMD / MAGLIETTA POLO / CAMISETA COM GOLA / РУБАШКА-ПОЛО

■ EGA MASTER

| COD.  | Tallas / Sizes / Tailles |
|-------|--------------------------|
| 90365 | M                        |
| 64837 | L                        |
| 64838 | XL                       |



| COD.  | Tallas / Sizes / Tailles |
|-------|--------------------------|
| 90386 | M                        |
| 90387 | L                        |
| 90388 | XL                       |



■ EGA SOLUTIONS

| COD.  | Tallas / Sizes / Tailles |
|-------|--------------------------|
| 90389 | M                        |
| 90390 | L                        |
| 90391 | XL                       |



■ CAMISETA TÉCNICA / TECHNICAL T-SHIRT / TEE-SHIRT TECHNIQUE / TECHNIK T-SHIRT / MAGLIETTA TECNICA / CAMISETA TÉCNICA / ТЕХНИЧЕСКАЯ ФУТБОЛКА

| COD.  | Tallas / Sizes / Tailles |
|-------|--------------------------|
| 90301 | L                        |
| 90302 | XL                       |



| COD.  | Tallas / Sizes / Tailles |
|-------|--------------------------|
| 63944 | M                        |
| 63948 | L                        |
| 63949 | XL                       |



■ CHUBASQUERO / RAINCOAT / ANORAK / WETTERMANTEL / IMPERMEABILE / IMPERMEÁVEL / КУРТКА-ДОЖДЕВИК

| COD.  | Tallas / Sizes / Tailles |
|-------|--------------------------|
| 90305 | M                        |
| 90306 | L                        |
| 90307 | XL                       |



■ CAZADORA / JACKET / VESTE / JACKE / GIACCA / CASACO / КУРТКА

| COD.  | Tallas / Sizes / Tailles |
|-------|--------------------------|
| 90393 | M                        |
| 90394 | L                        |
| 90395 | XL                       |



■ CHAQUETA FORRO POLAR / POLAR JACKET / VESTE POLAIRE / SOFTSHELLJACKE / GIACCA POLARE / CASACO POLAR / КУРТКА РАБОЧАЯ УТЕПЛЕННАЯ

| COD.  | Tallas / Sizes / Tailles |
|-------|--------------------------|
| 90303 | S                        |
| 90304 | M                        |
| 90308 | L                        |
| 90310 | XL                       |



■ CHALECO DE TRABAJO / WORK VEST / VESTE DE TRAVAIL / ARBEITSWESTE / GILET DA LAVORO / COLETE DE TRABALHO / РАБОЧАЯ ЖИЛЕТКА

| COD.  | Tallas / Sizes / Tailles |
|-------|--------------------------|
| 90331 | S                        |
| 90332 | M                        |
| 90333 | L                        |
| 90334 | XL                       |



■ PANTALÓN DE TRABAJO / WORK PANTS / PANTALON DE TRAVAIL / ARBEITSHOSEN / PANTALONE DA LAVORO / CALÇAS DE TRABALHO / РАБОЧИЕ БРЮКИ

| COD.  | Tallas / Sizes / Tailles |
|-------|--------------------------|
| 90320 | 36                       |
| 90321 | 38                       |
| 90322 | 40                       |
| 90323 | 42                       |
| 90324 | 44                       |
| 90325 | 46                       |
| 90326 | 48                       |
| 90327 | 50                       |
| 90328 | 52                       |
| 90329 | 54                       |
| 90330 | 56                       |



■ MERCHANDISING

■ GORRA / CAP / CASQUETTE / KAPPE / CAPPELLO / VISERA / КЕПКА

| COD.  |
|-------|
| 64699 |



■ MASCARILLAS REUTILIZABLES / REUSABLE MASKS / MASQUE RÉUTILISABLE / WIEDERVERWENDBARE MASKEN / MASCHERINE RIUTILIZZABILI / MÁSCARAS REUTILIZÁVEIS / МНОГОРАЗОВЫЕ МАСКИ

■ EGAMASTER

| COD.  |  |
|-------|-------------------------------------------------------------------------------------|
| 35657 | 25                                                                                  |

UNE 0065/2020



■ EGASOLUTIONS

| COD.  |  |
|-------|-------------------------------------------------------------------------------------|
| 35654 | 25                                                                                  |

UNE 0065/2020



■ ALFOMBRILLA ORDENADOR / MOUSE PAD / TAPIS DE SOURIS / MOUSE PAD / MOUSE PAD / TAPETE DE RATO / КОВРИК ПОД КОМПЬЮТЕРНУЮ МЫШЬ

| COD.  |
|-------|
| 64788 |



**POSAVASOS LLAVE ALAVESA / BASQUE WRENCH COASTER / DESSOUS DE VERRE "CLÉ BASQUE" / UNTERSETZER FÜR GLÄSER - ALAVESA / PORTA COPOS CHAVE ALAVESA / PORTA BICCHIERI CHIAVE BASCA / ПОДСТАВКА ДЛЯ СТАКАНА С РАЗВОДНЫМ КЛЮЧЕМ**

COD.

64144



**POSAVASOS MASTERGRIP / MASTERGRIP COASTER / DESSOUS DE VERRE MASTERGRIP / UNTERSETZER FÜR GLÄSER - MASTERGRIP / PORTA COPOS MASTERGRIP / PORTA BICCHIERI MASTERGRIP / ПОДСТАВКА ДЛЯ СТАКАНА С MASTERGRIP**

COD.

64145



**BOLÍGRAFO ANTIDESLIZANTE / ANTI-SLIPPERY PEN / STYLO ANTI-DÉRAPANT / KUGELSCHREIBER, RUTSCHFEST / PENNA CON GOMMA ANTISCIVOLO / ESFEROGRÁFICA ANTI-DESLIZANTE / НЕПРОСКАЛЬЗЫВАЮЩАЯ РУЧКА**

COD.

64698



**BLOCK DE NOTAS / NOTES BLOCK / BLOC-NOTES / NOTIZBLOCK / BLOCK NOTE / BLOCO DE NOTAS / БЛОКНОТ**

COD.

64759

Tamaño / Size / Taille

A5

64755

A4



**BOLSA DE PLÁSTICO PROMOCIONAL / PROMOTIONAL PLASTIC BAG / SAC PLASTIQUE PROMOTIONNEL / WERBE PLASTIK-BEUTEL / SACO DE PLÁSTICO PROMOCIONAL / BORSA DI PLASTICA PROMOZIONALE / РЕКЛАМНЫЕ ПАКЕТЫ**

COD.

64681

L x W x H (mm)

390 x 390 x 800



PORTALATAS REFRIGERADOR / STUBBY HOLDER / PORTE CANNETE / DOSENHALTER GEFRIERER / PORTABICCHIERE / REFRIGERADOR DE LATAS E GARRAFAS / КОРОТКИЙ ДЕРЖАТЕЛЬ

COD.

64695



PUZZLE / JIGSAW PUZZLE / PUZZLE / PUZZEL / PUZZLE / PUZZLE / ПАЗЛ С НОЖОВКАЙ

COD.

64413



RELOJ / WATCH / MONTRE / UHR / OROLOGIO / RELÓGIO / БАХТА

COD.

64697

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Reloj cronómetro "Masterwatch" multiesfera, correa de piel, resistente al agua / *Multisphere, waterproof "Masterwatch" with chronometer and leather belt* / Montre chronomètre "Masterwatch" multisphère, bracelet en cuir, résistante à l'eau



BOLÍGRAFO CON MEMORIA USB (2 GB), PUNTERO LÁSER Y LED / USB PEN DRIVE (2 GB) WITH LASER AND LED POINTER / STYLO CLÉ USB (2 GB), POINTEUR LASER ET LED / USB PEN DRIVE (2 GB) MIT LASER UND LED POINTER / PENNA CON MEMORIA USB (2 GB), PUNTATORE LASER E LED / ESFERGRÁFICA COM MEMÓRIA USB (2 GB) COM PONTEIRO LASER E LED / USB РУЧКА ЛАЗЕРНЫМ УКАЗАТЕЛЕМ И С LED-ОМ

COD.

64705

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Memoria USB 2 Gb / *2 Gb USB memory card* / Clé USB 2 Gb

Puntero láser clase 2 / *Class 2 laser pointer* / Pointeur laser classe 2

Bolígrafo tinta reemplazable / *Replacable ink ballpen* / Stylo à encre remplaçable

Estuche metálico / *Metallic case* / Étui métallique



TAZA CERÁMICA / CERAMIC MUG / TASSE EN CÉRAMIQUE / TASSE / TAZZA DI CERAMICA / CANECA CERÂMICA / КЕРАМИЧЕСКАЯ КРУЖКА

COD.

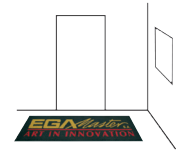
64701





■ ALFOMBRA / CARPET / TAPIS / TEPPICH / TAPPETO / TAPETE / КОБЕР

| COD.  | L x W (mm) |
|-------|------------|
| 64738 | 1950 x 650 |



■ MANIQUÍ / MANNEQUIN / MANNEQUIN / GLIEDERPUPPE / MANICHINO / MANEQUIM / ДЕМОНСТРАЦИОННЫЙ МАНЕКЕН

| COD.  |
|-------|
| 65711 |

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Herramientas antidrop, EPIs y cinturón portaherramientas no incluidos / Antidrop tools, PPE and tool belt not included / Outillage antichute, EPI et ceinture porte-outils non inclus



■ EXPOSITORES / DISPLAYS / PRESENTOIRS / STÄNDER / ESPOSITORI / DISPLAY STAND / СТЕНДЫ

| COD.  | L x W x H (mm)    |
|-------|-------------------|
| 90101 | 1050 x 460 x 2150 |

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                      |    |
|--------------------------------------------------------------------------------------|----|
| Gancho / Hook / Crochet                                                              | 60 |
| Puertas de metacrilato / Methacrylate sliding doors / Porte de méthacrylate          | ●  |
| Doble cierre / Double lock / Double fermeture                                        | ●  |
| Iluminación interior / Interior lighting / Illumination intérieure                   | ●  |
| Patas regulables en altura / Adjustable legs in height / Pattes réglables en hauteur | ●  |



| COD.  | L x W x H (mm)   |
|-------|------------------|
| 90047 | 980 x 520 x 2150 |

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

|                                                                                      |    |
|--------------------------------------------------------------------------------------|----|
| Gancho / Hook / Crochet                                                              | 60 |
| Iluminación frontal / Frontal lighting / Illumination frontale                       | ●  |
| Patas regulables en altura / Adjustable legs in height / Pattes réglables en hauteur | ●  |



| COD.  | L x W x H (mm)   |
|-------|------------------|
| 90171 | 580 x 370 x 1700 |

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES |   |
|--------------------------------------------------------------------------|---|
| Baldas / Shelves / Étagères                                              | 4 |



| COD.  | L x W x H (mm)   |
|-------|------------------|
| 90188 | 600 x 600 x 2000 |

| ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES |     |
|--------------------------------------------------------------------------|-----|
| Gancho / Hook / Crochet                                                  | 150 |
| Número de caras / Number of sides / Numéro de faces                      | 4   |
| Con ruedas / With wheels / Avec roues                                    | ●   |



**CINTA DE SEÑALIZACIÓN DE SEGURIDAD / SAFETY SIGNAGE TAPE / RUBAN AVERTISSEUR DE SÉCURITÉ / SICHERHEITS-BESCHRIFTUNGSBAND / NASTRO SEGNALETICO DI SICUREZZA / FITA DE SINALIZAÇÃO DE SEGURANÇA / МАРКИРОВОЧНАЯ ЛЕНТА**

| COD.  | Dimensiones / Dimensions / Dimensions |
|-------|---------------------------------------|
| 63988 | 50 m x 10 cm                          |



**BANDERA FLEXIBLE / FLEXIBLE FLAG / DRAPEAU FLÉXIBLE**

| COD.  |                                                                  | W x H (mm) |
|-------|------------------------------------------------------------------|------------|
| 90360 | Bandera y estructura / Flag and structure / Drapeau et structure | 550 x 2900 |



■ ROLL UP 1500 x 2000

| COD.  | Lonas / Pannels / Panneaux | Idiomas / Languages / Langues |
|-------|----------------------------|-------------------------------|
| 11155 | 12 Gamas                   | Castellano                    |
| 11156 | 12 Ranges                  | English                       |
| 11157 | 12 Gammes                  | Français                      |



| COD.  | Lonas / Pannels / Panneaux | Idiomas / Languages / Langues |
|-------|----------------------------|-------------------------------|
| 11158 | Seguridad Titanio/1000V    | Castellano                    |
| 11159 | Safety Titanium/1000V      | English                       |
| 11160 | Sécurité Titane/1000V      | Français                      |



| COD.  | Lonas / Pannels / Panneaux   | Idiomas / Languages / Langues |
|-------|------------------------------|-------------------------------|
| 11161 | Seguridad ATEX/Antichispa    | Castellano                    |
| 11162 | Safety ATEX/Non-Sparking     | English                       |
| 11163 | Sécurité ATEX/Antidéflagrant | Français                      |



| COD.  | Lonas / Pannels / Panneaux       | Idiomas / Languages / Langues |
|-------|----------------------------------|-------------------------------|
| 11164 | Herramienta y máquinas para tubo | Castellano                    |
| 11165 | Pipe tools and machines          | English                       |
| 11166 | Outils et machines pour tubes    | Français                      |



# PROYECTOS PRINCIPALES

## *MAIN PROJECTS*

# PRINCIPAUX PROJETS

**FIREBLOCK**

**ENERGÍA / POWER SECTOR / ÉNERGIE**

IRLANDA / IRELAND / IRLANDE









| COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD. | CAP. | PAG. |
|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|------|------|------|
| 38730 | 41   | 1320 | 38824 | 41   | 1318 | 38920 | 41   | 1295 | 50153 | 2    | 150  | 51207 | 15   | 627  | 51325 | 19   | 721  | 51344 | 19   | 722  | 51363 | 19   | 719  |      |      |      |
| 38731 | 41   | 1320 | 38825 | 41   | 1318 | 38921 | 41   | 1295 | 50154 | 2    | 150  | 51208 | 15   | 627  | 51325 | 19   | 722  | 51344 | 19   | 723  | 51363 | 19   | 720  |      |      |      |
| 38732 | 41   | 1320 | 38826 | 41   | 1323 | 38922 | 41   | 1301 | 50206 | 10   | 550  | 51209 | 15   | 627  | 51325 | 19   | 723  | 51345 | 19   | 718  | 51363 | 19   | 721  |      |      |      |
| 38733 | 41   | 1320 | 38827 | 41   | 1323 | 38923 | 41   | 1301 | 50930 | 2    | 173  | 51210 | 15   | 627  | 51326 | 19   | 718  | 51345 | 19   | 719  | 51363 | 19   | 722  |      |      |      |
| 38734 | 41   | 1320 | 38828 | 41   | 1323 | 38924 | 41   | 1301 | 50931 | 2    | 173  | 51215 | 15   | 628  | 51326 | 19   | 719  | 51345 | 19   | 720  | 51364 | 19   | 718  |      |      |      |
| 38735 | 41   | 1320 | 38829 | 41   | 1318 | 38925 | 41   | 1301 | 50932 | 2    | 173  | 51216 | 15   | 632  | 51326 | 19   | 720  | 51345 | 19   | 721  | 51364 | 19   | 719  |      |      |      |
| 38736 | 41   | 1320 | 38830 | 41   | 1318 | 38926 | 41   | 1301 | 50932 | 35   | 973  | 51217 | 15   | 632  | 51326 | 19   | 721  | 51345 | 19   | 722  | 51364 | 19   | 720  |      |      |      |
| 38737 | 41   | 1320 | 38831 | 41   | 1318 | 38927 | 41   | 1301 | 50933 | 2    | 173  | 51218 | 15   | 633  | 51326 | 19   | 722  | 51345 | 19   | 723  | 51364 | 19   | 721  |      |      |      |
| 38738 | 41   | 1320 | 38832 | 41   | 1325 | 38928 | 41   | 1301 | 50933 | 35   | 973  | 51219 | 15   | 633  | 51326 | 19   | 723  | 51346 | 19   | 718  | 51364 | 19   | 722  |      |      |      |
| 38739 | 41   | 1320 | 38833 | 41   | 1325 | 38929 | 41   | 1298 | 50934 | 35   | 973  | 51220 | 15   | 633  | 51327 | 19   | 718  | 51346 | 19   | 719  | 51364 | 19   | 723  |      |      |      |
| 38740 | 41   | 1320 | 38834 | 41   | 1325 | 38930 | 41   | 1298 | 50935 | 35   | 973  | 51221 | 15   | 633  | 51327 | 19   | 719  | 51346 | 19   | 720  | 51365 | 19   | 718  |      |      |      |
| 38741 | 41   | 1320 | 38835 | 41   | 1325 | 38931 | 41   | 1298 | 50937 | 2    | 157  | 51222 | 15   | 638  | 51327 | 19   | 721  | 51346 | 19   | 721  | 51365 | 19   | 719  |      |      |      |
| 38742 | 41   | 1320 | 38836 | 41   | 1325 | 38932 | 41   | 1298 | 50938 | 2    | 157  | 51223 | 15   | 638  | 51327 | 19   | 722  | 51346 | 19   | 722  | 51365 | 19   | 720  |      |      |      |
| 38743 | 41   | 1320 | 38837 | 41   | 1324 | 38933 | 41   | 1298 | 50939 | 2    | 157  | 51224 | 15   | 640  | 51328 | 19   | 718  | 51346 | 19   | 723  | 51366 | 19   | 718  |      |      |      |
| 38744 | 41   | 1320 | 38838 | 41   | 1324 | 38934 | 41   | 1298 | 50947 | 2    | 158  | 51225 | 15   | 640  | 51328 | 19   | 719  | 51347 | 19   | 718  | 51366 | 19   | 719  |      |      |      |
| 38745 | 41   | 1321 | 38839 | 41   | 1324 | 38946 | 15   | 665  | 50950 | 2    | 144  | 51226 | 15   | 640  | 51328 | 19   | 720  | 51347 | 19   | 719  | 51366 | 19   | 720  |      |      |      |
| 38746 | 41   | 1321 | 38840 | 41   | 1324 | 38946 | 33   | 958  | 50951 | 2    | 144  | 51227 | 15   | 640  | 51328 | 19   | 721  | 51347 | 19   | 720  | 51366 | 19   | 721  |      |      |      |
| 38747 | 41   | 1321 | 38841 | 41   | 1324 | 38948 | 41   | 1303 | 50952 | 2    | 144  | 51228 | 15   | 640  | 51328 | 19   | 722  | 51347 | 19   | 721  | 51366 | 19   | 722  |      |      |      |
| 38748 | 41   | 1321 | 38842 | 41   | 1300 | 38949 | 41   | 1303 | 50953 | 2    | 144  | 51229 | 15   | 641  | 51328 | 19   | 723  | 51347 | 19   | 722  | 51366 | 19   | 723  |      |      |      |
| 38749 | 41   | 1321 | 38843 | 41   | 1300 | 38950 | 41   | 1303 | 50954 | 2    | 145  | 51242 | 29   | 862  | 51329 | 19   | 718  | 51347 | 19   | 723  | 51367 | 19   | 718  |      |      |      |
| 38750 | 41   | 1321 | 38844 | 41   | 1300 | 38951 | 41   | 1303 | 50955 | 2    | 145  | 51244 | 15   | 628  | 51329 | 19   | 719  | 51348 | 19   | 718  | 51367 | 19   | 719  |      |      |      |
| 38751 | 41   | 1321 | 38845 | 41   | 1300 | 38952 | 41   | 1303 | 50956 | 2    | 145  | 51248 | 31   | 871  | 51329 | 19   | 721  | 51348 | 19   | 719  | 51367 | 19   | 720  |      |      |      |
| 38752 | 41   | 1321 | 38846 | 41   | 1300 | 38953 | 41   | 1303 | 50957 | 2    | 145  | 51249 | 31   | 877  | 51329 | 19   | 722  | 51348 | 19   | 720  | 51367 | 19   | 721  |      |      |      |
| 38753 | 41   | 1321 | 38847 | 41   | 1300 | 38954 | 41   | 1303 | 50960 | 2    | 171  | 51250 | 31   | 878  | 51330 | 19   | 718  | 51348 | 19   | 721  | 51367 | 19   | 722  |      |      |      |
| 38754 | 41   | 1321 | 38848 | 41   | 1304 | 38955 | 41   | 1303 | 50961 | 2    | 171  | 51251 | 31   | 879  | 51330 | 19   | 719  | 51348 | 19   | 722  | 51367 | 19   | 723  |      |      |      |
| 38755 | 41   | 1321 | 38849 | 41   | 1304 | 38956 | 41   | 1303 | 50962 | 2    | 171  | 51252 | 31   | 874  | 51330 | 19   | 720  | 51349 | 19   | 718  | 51368 | 19   | 722  |      |      |      |
| 38756 | 41   | 1321 | 38850 | 41   | 1304 | 38957 | 41   | 1303 | 50963 | 2    | 171  | 51253 | 31   | 872  | 51330 | 19   | 721  | 51349 | 19   | 719  | 51369 | 19   | 720  |      |      |      |
| 38757 | 41   | 1321 | 38851 | 41   | 1304 | 38958 | 41   | 1303 | 50964 | 2    | 166  | 51254 | 31   | 873  | 51330 | 19   | 722  | 51349 | 19   | 720  | 51369 | 19   | 722  |      |      |      |
| 38758 | 41   | 1321 | 38852 | 41   | 1304 | 38959 | 41   | 1303 | 50966 | 2    | 160  | 51257 | 31   | 876  | 51330 | 19   | 723  | 51349 | 19   | 721  | 51370 | 19   | 722  |      |      |      |
| 38759 | 41   | 1321 | 38853 | 41   | 1304 | 38960 | 41   | 1303 | 50968 | 2    | 160  | 51258 | 31   | 876  | 51331 | 19   | 718  | 51349 | 19   | 722  | 51371 | 19   | 720  |      |      |      |
| 38760 | 41   | 1321 | 38854 | 41   | 1304 | 38965 | 41   | 1304 | 50974 | 2    | 158  | 51259 | 31   | 874  | 51331 | 19   | 719  | 51350 | 19   | 718  | 51371 | 19   | 722  |      |      |      |
| 38761 | 41   | 1321 | 38855 | 41   | 1304 | 38966 | 41   | 1304 | 50976 | 2    | 131  | 51260 | 15   | 631  | 51331 | 19   | 720  | 51350 | 19   | 719  | 51372 | 19   | 720  |      |      |      |
| 38762 | 41   | 1321 | 38856 | 41   | 1304 | 38967 | 41   | 1304 | 50977 | 2    | 143  | 51260 | 31   | 875  | 51331 | 19   | 721  | 51350 | 19   | 720  | 51372 | 19   | 722  |      |      |      |
| 38763 | 41   | 1321 | 38857 | 41   | 1304 | 38968 | 41   | 1304 | 50978 | 2    | 143  | 51261 | 31   | 880  | 51331 | 19   | 722  | 51350 | 19   | 721  | 51373 | 19   | 720  |      |      |      |
| 38764 | 41   | 1321 | 38858 | 41   | 1304 | 38969 | 41   | 1304 | 50979 | 2    | 143  | 51262 | 31   | 881  | 51331 | 19   | 723  | 51350 | 19   | 722  | 51373 | 19   | 722  |      |      |      |
| 38765 | 41   | 1321 | 38859 | 41   | 1304 | 38970 | 41   | 1304 | 50980 | 2    | 143  | 51263 | 31   | 883  | 51332 | 19   | 718  | 51350 | 19   | 723  | 51374 | 19   | 722  |      |      |      |
| 38766 | 41   | 1322 | 38860 | 41   | 1304 | 38971 | 41   | 1304 | 50981 | 2    | 164  | 51264 | 31   | 883  | 51332 | 19   | 719  | 51351 | 19   | 718  | 51375 | 19   | 721  |      |      |      |
| 38767 | 41   | 1322 | 38861 | 41   | 1304 | 38972 | 41   | 1304 | 50982 | 2    | 164  | 51265 | 31   | 882  | 51332 | 19   | 720  | 51351 | 19   | 719  | 51376 | 19   | 721  |      |      |      |
| 38768 | 41   | 1322 | 38862 | 41   | 1305 | 38973 | 41   | 1304 | 50983 | 2    | 165  | 51266 | 31   | 883  | 51332 | 19   | 721  | 51351 | 19   | 720  | 51377 | 19   | 721  |      |      |      |
| 38769 | 41   | 1322 | 38863 | 41   | 1305 | 38974 | 41   | 1304 | 50984 | 2    | 165  | 51270 | 31   | 871  | 51332 | 19   | 722  | 51351 | 19   | 721  | 51378 | 19   | 721  |      |      |      |
| 38770 | 41   | 1322 | 38864 | 41   | 1305 | 38975 | 41   | 1304 | 50985 | 2    | 165  | 51270 | 31   | 874  | 51332 | 19   | 723  | 51351 | 19   | 722  | 51379 | 19   | 721  |      |      |      |
| 38771 | 41   | 1322 | 38865 | 41   | 1305 | 38976 | 41   | 1304 | 50986 | 2    | 168  | 51271 | 31   | 872  | 51333 | 19   | 718  | 51351 | 19   | 723  | 51380 | 19   | 721  |      |      |      |
| 38772 | 41   | 1322 | 38866 | 41   | 1305 | 3XXYY | 11   | 558  | 50988 | 2    | 166  | 51271 | 31   | 873  | 51333 | 19   | 719  | 51352 | 19   | 718  | 51381 | 19   | 719  |      |      |      |
| 38773 | 41   | 1322 | 38867 | 41   | 1305 | 4XXYY | 11   | 558  | 50989 | 2    | 154  | 51271 | 31   | 874  | 51333 | 19   | 720  | 51352 | 19   | 719  | 51382 | 19   | 719  |      |      |      |
| 38774 | 41   | 1322 | 38868 | 41   | 1305 | 50002 | 17   | 689  | 50991 | 2    | 156  | 51271 | 31   | 875  | 51333 | 19   | 721  | 51352 | 19   | 720  | 51383 | 19   | 719  |      |      |      |
| 38775 | 41   | 1322 | 38869 | 41   | 1305 | 50086 | 43   | 1346 | 50992 | 2    | 156  | 51272 | 31   | 871  | 51333 | 19   | 722  | 51352 | 19   | 721  | 51384 | 19   | 719  |      |      |      |
| 38776 | 41   | 1322 | 38870 | 41   | 1305 | 50088 | 2    | 149  | 50993 | 2    | 159  | 51272 | 31   | 872  | 51333 | 19   | 723  | 51352 | 19   | 722  | 51385 | 19   | 719  |      |      |      |
| 38777 | 41   | 1322 | 38871 | 41   | 1305 | 50089 | 2    | 149  | 50994 | 2    | 164  | 51272 | 31   | 873  | 51334 | 19   | 718  | 51352 | 19   | 723  | 51386 | 19   | 718  |      |      |      |
| 38778 | 41   | 1322 | 38872 | 41   | 1305 | 50090 | 2    | 149  | 50995 | 2    | 164  | 51272 | 31   | 879  | 51334 | 19   | 721  | 51353 | 19   | 718  | 51386 | 19   | 719  |      |      |      |
| 38779 | 41   | 1322 | 38873 | 41   | 1305 | 50093 | 2    | 149  | 50996 | 2    | 164  | 51273 | 31   | 877  | 51334 | 19   | 722  | 51353 | 19   | 719  | 51386 | 19   | 720  |      |      |      |
| 38780 | 41   | 1322 | 38874 | 41   | 1305 | 50094 | 2    | 149  | 50997 | 35   | 972  | 51274 | 31   | 878  | 51334 | 19   | 723  | 51353 | 19   | 720  | 51386 | 19   | 721  |      |      |      |
| 38781 | 41   | 1322 | 38875 | 41   | 1305 | 50095 | 2    | 149  | 50998 | 35   | 973  | 51275 | 31   | 878  | 51335 | 19   | 718  | 51353 | 19   | 721  | 51386 | 19   | 723  |      |      |      |
| 38782 | 41   | 1322 | 38876 | 41   | 1300 | 50101 | 2    | 127  | 50999 | 35   | 973  | 51276 | 31   | 878  | 51335 | 19   | 721  | 51353 | 19   | 722  | 51387 | 19   | 718  |      |      |      |
| 38783 | 41   | 1322 | 38877 | 41   | 1323 | 50102 | 2    | 127  | 51000 | 17   | 689  | 51277 | 31   | 878  | 51335 | 19   | 722  | 51353 | 19   | 723  | 51387 | 19   | 719  |      |      |      |
| 38784 | 41   | 1322 | 38878 | 41   | 1323 | 50103 | 2    | 127  | 51009 | 2    | 173  | 51278 | 31   | 878  | 51335 | 19   | 723  | 51354 | 19   | 718  | 51387 | 19   | 720  |      |      |      |
| 38785 | 41   | 1321 | 38879 | 41   | 1323 | 50104 | 2    | 128  | 51010 | 2    | 159  | 51279 | 31   | 879  | 51336 | 19</ |      |       |      |      |       |      |      |      |      |      |



| COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. |       |   |     |
|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|---|-----|
| 51401 | 19   | 718  | 51439 | 19   | 721  | 51624 | 8    | 370  | 53017 | 9    | 406  | 53072 | 6    | 286  | 53133 | 6    | 287  | 53187 | 6    | 293  | 53247 | 6    | 295  | 53187 | 6    | 293  | 53247 | 6 | 295 |
| 51401 | 19   | 720  | 51440 | 19   | 720  | 51625 | 8    | 370  | 53019 | 6    | 281  | 53072 | 9    | 418  | 53133 | 9    | 430  | 53187 | 9    | 470  | 53247 | 9    | 484  | 53187 | 9    | 470  | 53247 | 9 | 484 |
| 51401 | 19   | 721  | 51441 | 19   | 720  | 51626 | 8    | 370  | 53019 | 9    | 406  | 53074 | 6    | 286  | 53134 | 6    | 288  | 53188 | 6    | 293  | 53249 | 6    | 295  | 53188 | 6    | 293  | 53249 | 6 | 295 |
| 51401 | 19   | 722  | 51442 | 19   | 720  | 51643 | 31   | 873  | 53020 | 6    | 281  | 53074 | 9    | 418  | 53134 | 9    | 430  | 53188 | 9    | 470  | 53249 | 9    | 484  | 53188 | 9    | 470  | 53249 | 9 | 484 |
| 51402 | 19   | 718  | 51443 | 19   | 720  | 51648 | 2    | 148  | 53020 | 9    | 406  | 53075 | 6    | 287  | 53136 | 6    | 288  | 53189 | 6    | 293  | 53250 | 6    | 295  | 53189 | 6    | 293  | 53250 | 6 | 295 |
| 51402 | 19   | 719  | 51444 | 19   | 720  | 51649 | 19   | 731  | 53021 | 6    | 281  | 53075 | 9    | 418  | 53136 | 9    | 430  | 53189 | 9    | 470  | 53250 | 9    | 484  | 53189 | 9    | 470  | 53250 | 9 | 484 |
| 51402 | 19   | 720  | 51445 | 19   | 718  | 51651 | 8    | 335  | 53021 | 9    | 406  | 53076 | 6    | 287  | 53137 | 6    | 288  | 53190 | 6    | 293  | 53251 | 6    | 295  | 53190 | 6    | 293  | 53251 | 6 | 295 |
| 51402 | 19   | 721  | 51446 | 19   | 718  | 51660 | 15   | 626  | 53023 | 6    | 282  | 53076 | 9    | 418  | 53137 | 9    | 430  | 53190 | 9    | 470  | 53251 | 9    | 484  | 53137 | 9    | 430  | 53190 | 9 | 470 |
| 51402 | 19   | 722  | 51446 | 19   | 722  | 51661 | 15   | 626  | 53023 | 9    | 406  | 53078 | 6    | 284  | 53138 | 6    | 288  | 53191 | 6    | 293  | 53252 | 6    | 295  | 53138 | 6    | 288  | 53191 | 6 | 293 |
| 51403 | 19   | 718  | 51447 | 19   | 718  | 51664 | 31   | 871  | 53024 | 6    | 282  | 53078 | 9    | 416  | 53138 | 9    | 430  | 53191 | 9    | 470  | 53252 | 9    | 484  | 53138 | 9    | 430  | 53191 | 9 | 470 |
| 51403 | 19   | 719  | 51447 | 19   | 722  | 51665 | 2    | 89   | 53024 | 9    | 406  | 53079 | 6    | 284  | 53139 | 6    | 288  | 53192 | 6    | 293  | 53253 | 6    | 295  | 53139 | 6    | 288  | 53192 | 6 | 293 |
| 51403 | 19   | 720  | 51448 | 19   | 718  | 51666 | 2    | 89   | 53025 | 6    | 282  | 53079 | 9    | 416  | 53139 | 9    | 430  | 53192 | 9    | 470  | 53253 | 9    | 484  | 53139 | 9    | 430  | 53192 | 9 | 470 |
| 51403 | 19   | 721  | 51448 | 19   | 722  | 51667 | 2    | 89   | 53025 | 9    | 406  | 53080 | 6    | 284  | 53141 | 6    | 290  | 53193 | 6    | 293  | 53254 | 6    | 295  | 53141 | 6    | 290  | 53193 | 6 | 293 |
| 51403 | 19   | 722  | 51449 | 19   | 722  | 51668 | 2    | 87   | 53027 | 6    | 283  | 53080 | 9    | 416  | 53141 | 9    | 432  | 53193 | 9    | 471  | 53254 | 9    | 484  | 53141 | 9    | 432  | 53193 | 9 | 471 |
| 51404 | 19   | 718  | 51453 | 8    | 316  | 51669 | 2    | 87   | 53027 | 9    | 408  | 53082 | 6    | 284  | 53142 | 6    | 290  | 53194 | 6    | 293  | 53255 | 6    | 295  | 53082 | 6    | 284  | 53194 | 6 | 293 |
| 51404 | 19   | 719  | 51454 | 8    | 317  | 51670 | 2    | 87   | 53028 | 6    | 283  | 53082 | 9    | 416  | 53142 | 9    | 432  | 53194 | 9    | 471  | 53255 | 9    | 484  | 53082 | 9    | 416  | 53194 | 9 | 471 |
| 51404 | 19   | 720  | 51455 | 8    | 319  | 51671 | 2    | 29   | 53028 | 9    | 408  | 53083 | 6    | 284  | 53143 | 6    | 290  | 53195 | 6    | 293  | 53257 | 6    | 295  | 53083 | 6    | 284  | 53195 | 6 | 293 |
| 51404 | 19   | 721  | 51456 | 8    | 319  | 51672 | 2    | 29   | 53029 | 6    | 283  | 53083 | 9    | 416  | 53143 | 9    | 432  | 53195 | 9    | 471  | 53257 | 9    | 489  | 53083 | 9    | 416  | 53195 | 9 | 471 |
| 51404 | 19   | 722  | 51475 | 2    | 130  | 51673 | 2    | 29   | 53029 | 9    | 408  | 53084 | 6    | 284  | 53144 | 6    | 290  | 53196 | 6    | 293  | 53258 | 6    | 295  | 53084 | 6    | 284  | 53196 | 6 | 293 |
| 51405 | 19   | 718  | 51476 | 2    | 131  | 51674 | 2    | 139  | 53030 | 6    | 283  | 53084 | 9    | 416  | 53144 | 9    | 432  | 53196 | 9    | 471  | 53258 | 9    | 489  | 53084 | 9    | 416  | 53196 | 9 | 471 |
| 51405 | 19   | 719  | 51478 | 2    | 134  | 51675 | 2    | 139  | 53030 | 9    | 408  | 53086 | 6    | 285  | 53145 | 6    | 290  | 53197 | 6    | 293  | 53259 | 6    | 295  | 53086 | 6    | 285  | 53197 | 6 | 293 |
| 51405 | 19   | 720  | 51478 | 41   | 1329 | 51676 | 2    | 139  | 53031 | 6    | 283  | 53086 | 9    | 416  | 53145 | 9    | 432  | 53197 | 9    | 471  | 53259 | 9    | 489  | 53086 | 9    | 416  | 53197 | 9 | 471 |
| 51405 | 19   | 721  | 51480 | 2    | 152  | 51677 | 2    | 139  | 53031 | 9    | 408  | 53087 | 6    | 285  | 53146 | 6    | 290  | 53198 | 6    | 293  | 53260 | 6    | 295  | 53087 | 6    | 285  | 53198 | 6 | 293 |
| 51405 | 19   | 722  | 51482 | 2    | 168  | 51680 | 2    | 41   | 53032 | 6    | 283  | 53087 | 9    | 416  | 53146 | 9    | 432  | 53198 | 9    | 471  | 53260 | 9    | 489  | 53087 | 9    | 416  | 53198 | 9 | 471 |
| 51406 | 19   | 718  | 51484 | 2    | 140  | 51681 | 2    | 41   | 53032 | 9    | 408  | 53088 | 6    | 285  | 53147 | 6    | 290  | 53199 | 6    | 293  | 53261 | 6    | 295  | 53088 | 6    | 285  | 53199 | 6 | 293 |
| 51406 | 19   | 721  | 51485 | 2    | 168  | 51682 | 2    | 41   | 53034 | 6    | 283  | 53088 | 9    | 416  | 53147 | 9    | 432  | 53199 | 9    | 471  | 53261 | 9    | 489  | 53088 | 9    | 416  | 53199 | 9 | 471 |
| 51406 | 19   | 722  | 51486 | 2    | 141  | 51683 | 2    | 45   | 53034 | 9    | 408  | 53089 | 6    | 285  | 53149 | 6    | 290  | 53201 | 6    | 294  | 53262 | 6    | 295  | 53089 | 6    | 285  | 53201 | 6 | 294 |
| 51407 | 19   | 718  | 51490 | 2    | 152  | 51684 | 2    | 45   | 53035 | 6    | 283  | 53089 | 9    | 416  | 53149 | 9    | 432  | 53201 | 9    | 477  | 53262 | 9    | 489  | 53089 | 9    | 416  | 53201 | 9 | 477 |
| 51407 | 19   | 721  | 51492 | 2    | 152  | 51685 | 2    | 45   | 53035 | 9    | 408  | 53091 | 6    | 286  | 53150 | 6    | 290  | 53202 | 6    | 294  | 53263 | 6    | 295  | 53091 | 6    | 286  | 53202 | 6 | 294 |
| 51407 | 19   | 722  | 51494 | 2    | 168  | 51686 | 2    | 48   | 53036 | 6    | 283  | 53091 | 9    | 418  | 53150 | 9    | 432  | 53202 | 9    | 477  | 53263 | 9    | 489  | 53091 | 9    | 418  | 53202 | 9 | 477 |
| 51408 | 19   | 718  | 51496 | 2    | 140  | 51687 | 2    | 48   | 53036 | 9    | 408  | 53092 | 6    | 286  | 53151 | 6    | 290  | 53203 | 6    | 294  | 53264 | 6    | 295  | 53092 | 6    | 286  | 53203 | 6 | 294 |
| 51408 | 19   | 719  | 51497 | 2    | 168  | 51688 | 2    | 48   | 53037 | 6    | 283  | 53092 | 9    | 418  | 53151 | 9    | 432  | 53203 | 9    | 477  | 53264 | 9    | 489  | 53092 | 9    | 418  | 53203 | 9 | 477 |
| 51408 | 19   | 721  | 51498 | 2    | 141  | 51689 | 2    | 51   | 53037 | 9    | 408  | 53093 | 6    | 286  | 53152 | 6    | 290  | 53204 | 6    | 294  | 53265 | 6    | 295  | 53093 | 6    | 286  | 53204 | 6 | 294 |
| 51408 | 19   | 722  | 51502 | 2    | 152  | 51690 | 2    | 51   | 53038 | 6    | 283  | 53093 | 9    | 418  | 53152 | 9    | 432  | 53204 | 9    | 477  | 53265 | 9    | 489  | 53093 | 9    | 418  | 53204 | 9 | 477 |
| 51409 | 19   | 718  | 51504 | 2    | 152  | 51691 | 2    | 51   | 53038 | 9    | 408  | 53094 | 6    | 286  | 53153 | 6    | 290  | 53205 | 6    | 294  | 53266 | 6    | 295  | 53094 | 6    | 286  | 53205 | 6 | 294 |
| 51409 | 19   | 721  | 51506 | 2    | 168  | 51692 | 2    | 54   | 53039 | 6    | 284  | 53094 | 9    | 418  | 53153 | 9    | 432  | 53205 | 9    | 477  | 53266 | 9    | 489  | 53094 | 9    | 418  | 53205 | 9 | 477 |
| 51409 | 19   | 722  | 51508 | 2    | 140  | 51693 | 2    | 54   | 53039 | 9    | 408  | 53096 | 6    | 286  | 53154 | 6    | 290  | 53206 | 6    | 294  | 53267 | 6    | 295  | 53096 | 6    | 286  | 53206 | 6 | 294 |
| 51410 | 19   | 718  | 51509 | 2    | 168  | 51694 | 2    | 54   | 53041 | 6    | 282  | 53096 | 9    | 418  | 53154 | 9    | 432  | 53206 | 9    | 477  | 53267 | 9    | 489  | 53096 | 9    | 418  | 53206 | 9 | 477 |
| 51410 | 19   | 719  | 51510 | 2    | 141  | 51695 | 2    | 60   | 53041 | 9    | 407  | 53098 | 6    | 287  | 53155 | 6    | 290  | 53207 | 6    | 294  | 53268 | 6    | 295  | 53098 | 6    | 287  | 53207 | 6 | 294 |
| 51410 | 19   | 721  | 51514 | 2    | 152  | 51696 | 2    | 60   | 53042 | 6    | 282  | 53098 | 9    | 418  | 53155 | 9    | 432  | 53207 | 9    | 477  | 53268 | 9    | 489  | 53098 | 9    | 418  | 53207 | 9 | 477 |
| 51410 | 19   | 722  | 51516 | 2    | 142  | 51697 | 2    | 60   | 53042 | 9    | 407  | 53099 | 6    | 287  | 53156 | 6    | 290  | 53208 | 6    | 294  | 53269 | 6    | 295  | 53099 | 6    | 287  | 53208 | 6 | 294 |
| 51411 | 19   | 718  | 51517 | 2    | 147  | 51698 | 2    | 62   | 53043 | 6    | 282  | 53099 | 9    | 418  | 53156 | 9    | 432  | 53208 | 9    | 477  | 53269 | 9    | 489  | 53099 | 9    | 418  | 53208 | 9 | 477 |
| 51411 | 19   | 719  | 51519 | 2    | 142  | 51699 | 2    | 62   | 53043 | 9    | 407  | 53101 | 6    | 287  | 53157 | 6    | 290  | 53209 | 6    | 294  | 53270 | 6    | 295  | 53101 | 6    | 287  | 53209 | 6 | 294 |
| 51411 | 19   | 721  | 51520 | 2    | 147  | 51700 | 2    | 62   | 53044 | 6    | 282  | 53101 | 9    | 418  | 53157 | 9    | 432  | 53209 | 9    | 477  | 53270 | 9    | 489  | 53101 | 9    | 418  | 53209 | 9 | 477 |
| 51411 | 19   | 722  | 51522 | 2    | 142  | 51701 | 2    | 64   | 53044 | 9    | 407  | 53102 | 6    | 287  | 53158 | 6    | 290  | 53210 | 6    | 294  | 53271 | 6    | 295  | 53102 | 6    | 287  | 53210 | 6 | 294 |
| 51412 | 19   | 718  | 51523 | 2    | 147  | 51702 | 2    | 64   | 53045 | 6    | 282  | 53102 | 9    | 419  | 53158 | 9    | 432  | 53210 | 9    | 477  | 53271 | 9    | 489  | 53102 | 9    | 419  | 53210 | 9 | 477 |
| 51412 | 19   | 719  | 51530 | 43   | 1347 | 51703 | 2    | 64   | 53045 | 9    | 407  | 53103 | 6    | 287  | 53159 | 6    | 290  | 53211 | 6    | 294  | 53272 | 6    | 295  | 53103 | 6    | 287  | 53211 | 6 | 294 |
| 51412 | 19   | 721  | 51535 | 2    | 117  | 51704 | 2    | 66   | 53046 | 6    | 282  | 53103 | 9    | 419  | 53159 | 9    | 432  | 53211 | 9    | 477  | 53272 | 9    | 489  | 53103 | 9    | 419  | 53211 | 9 | 477 |
| 51412 | 19   | 722  | 51536 | 2    | 118  | 51705 | 2    | 66   | 53046 | 9    | 407  | 53105 | 6    | 287  | 53161 | 6    | 291  | 53212 | 6    | 294  | 53273 | 6    | 295  | 53105 | 6    | 287  | 53212 | 6 | 294 |
| 51413 | 19   | 720  | 51537 | 2    | 119  | 51706 | 2    | 66   | 53047 | 6    | 282  | 53105 | 9    | 429  | 531   |      |      |       |      |      |       |      |      |       |      |      |       |   |     |



| COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. |
|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|
| 55071 | 8    | 368  | 55169 | 6    | 268  | 55263 | 6    | 262  | 55372 | 5    | 229  | 55566 | 25   | 791  | 55685 | 6    | 285  | 55725 | 10   | 528  | 55757 | 8    | 389  |
| 55072 | 8    | 368  | 55170 | 6    | 268  | 55264 | 6    | 262  | 55373 | 5    | 228  | 55567 | 21   | 756  | 55685 | 9    | 417  | 55726 | 8    | 387  | 55757 | 9    | 420  |
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| 55075 | 8    | 368  | 55173 | 6    | 268  | 55267 | 6    | 280  | 55376 | 5    | 228  | 55571 | 8    | 381  | 55687 | 6    | 285  | 55727 | 8    | 387  | 55758 | 9    | 420  |
| 55076 | 8    | 368  | 55174 | 6    | 268  | 55268 | 6    | 280  | 55378 | 5    | 229  | 55572 | 3    | 208  | 55687 | 9    | 417  | 55727 | 9    | 420  | 55758 | 10   | 530  |
| 55077 | 8    | 368  | 55175 | 6    | 268  | 55269 | 6    | 280  | 55379 | 5    | 229  | 55573 | 3    | 209  | 55688 | 6    | 288  | 55727 | 10   | 528  | 55759 | 8    | 389  |
| 55078 | 8    | 368  | 55176 | 6    | 269  | 55270 | 6    | 280  | 55380 | 5    | 229  | 55574 | 3    | 209  | 55688 | 9    | 430  | 55728 | 8    | 387  | 55759 | 9    | 420  |
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| 55080 | 8    | 368  | 55178 | 6    | 269  | 55272 | 6    | 280  | 55383 | 5    | 229  | 55581 | 7    | 309  | 55689 | 9    | 430  | 55728 | 10   | 528  | 55760 | 8    | 389  |
| 55081 | 8    | 368  | 55179 | 6    | 269  | 55273 | 6    | 280  | 55385 | 5    | 229  | 55582 | 7    | 310  | 55690 | 6    | 288  | 55729 | 8    | 387  | 55760 | 9    | 420  |
| 55082 | 8    | 368  | 55180 | 6    | 269  | 55274 | 6    | 280  | 55397 | 5    | 231  | 55583 | 7    | 310  | 55690 | 9    | 430  | 55729 | 9    | 420  | 55760 | 10   | 530  |
| 55083 | 8    | 368  | 55181 | 6    | 269  | 55275 | 6    | 280  | 55399 | 5    | 231  | 55584 | 15   | 659  | 55691 | 6    | 288  | 55729 | 10   | 528  | 55761 | 8    | 389  |
| 55084 | 8    | 368  | 55182 | 6    | 269  | 55276 | 6    | 280  | 55401 | 5    | 231  | 55585 | 15   | 659  | 55691 | 9    | 430  | 55730 | 8    | 387  | 55761 | 9    | 420  |
| 55085 | 8    | 368  | 55183 | 6    | 269  | 55277 | 6    | 280  | 55403 | 5    | 246  | 55586 | 15   | 659  | 55692 | 6    | 288  | 55730 | 9    | 420  | 55761 | 10   | 530  |
| 55086 | 8    | 368  | 55184 | 6    | 270  | 55278 | 6    | 280  | 55405 | 5    | 231  | 55587 | 15   | 661  | 55692 | 9    | 430  | 55730 | 10   | 528  | 55762 | 2    | 57   |
| 55087 | 8    | 368  | 55185 | 6    | 270  | 55279 | 6    | 280  | 55406 | 5    | 231  | 55588 | 15   | 661  | 55693 | 6    | 288  | 55731 | 8    | 387  | 55766 | 2    | 68   |
| 55088 | 8    | 368  | 55186 | 6    | 270  | 55280 | 6    | 280  | 55409 | 5    | 232  | 55589 | 15   | 661  | 55693 | 9    | 430  | 55731 | 9    | 420  | 55767 | 2    | 76   |
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| 55090 | 8    | 368  | 55188 | 6    | 270  | 55282 | 6    | 280  | 55411 | 5    | 232  | 55591 | 9    | 445  | 55695 | 9    | 430  | 55732 | 8    | 387  | 55769 | 2    | 82   |
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| 55101 | 6    | 258  | 55195 | 6    | 271  | 55289 | 6    | 280  | 55423 | 5    | 233  | 55598 | 9    | 459  | 55699 | 6    | 282  | 55734 | 9    | 420  | 55774 | 15   | 646  |
| 55102 | 6    | 258  | 55196 | 6    | 271  | 55290 | 6    | 280  | 55424 | 5    | 233  | 55599 | 9    | 457  | 55699 | 9    | 406  | 55734 | 10   | 528  | 55775 | 2    | 94   |
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| 55104 | 6    | 259  | 55198 | 6    | 271  | 55292 | 6    | 280  | 55428 | 5    | 233  | 55601 | 9    | 458  | 55700 | 9    | 407  | 55735 | 9    | 420  | 55776 | 2    | 95   |
| 55105 | 6    | 259  | 55199 | 6    | 271  | 55293 | 6    | 280  | 55431 | 5    | 233  | 55602 | 9    | 458  | 55701 | 6    | 285  | 55735 | 10   | 528  | 55776 | 15   | 650  |
| 55106 | 6    | 259  | 55200 | 6    | 272  | 55294 | 6    | 280  | 55432 | 5    | 233  | 55603 | 9    | 460  | 55701 | 9    | 417  | 55736 | 8    | 389  | 55777 | 2    | 97   |
| 55107 | 6    | 259  | 55201 | 6    | 272  | 55296 | 6    | 279  | 55433 | 5    | 233  | 55630 | 9    | 469  | 55702 | 6    | 285  | 55736 | 9    | 420  | 55777 | 15   | 652  |
| 55108 | 6    | 260  | 55202 | 6    | 272  | 55300 | 8    | 340  | 55434 | 5    | 233  | 55631 | 9    | 469  | 55702 | 9    | 417  | 55736 | 10   | 530  | 55778 | 2    | 98   |
| 55109 | 6    | 260  | 55203 | 6    | 273  | 55301 | 8    | 340  | 55436 | 5    | 233  | 55632 | 9    | 469  | 55703 | 6    | 285  | 55737 | 8    | 389  | 55778 | 15   | 653  |
| 55110 | 6    | 260  | 55204 | 6    | 273  | 55302 | 8    | 340  | 55437 | 5    | 233  | 55633 | 9    | 469  | 55703 | 9    | 417  | 55737 | 9    | 420  | 55793 | 2    | 78   |
| 55111 | 6    | 260  | 55205 | 6    | 273  | 55303 | 8    | 340  | 55441 | 5    | 236  | 55634 | 9    | 469  | 55704 | 6    | 288  | 55737 | 10   | 530  | 55794 | 2    | 78   |
| 55112 | 6    | 260  | 55206 | 6    | 274  | 55304 | 8    | 340  | 55442 | 5    | 236  | 55635 | 9    | 469  | 55704 | 9    | 430  | 55738 | 8    | 389  | 55795 | 9    | 428  |
| 55113 | 6    | 261  | 55207 | 6    | 274  | 55305 | 8    | 340  | 55444 | 5    | 236  | 55636 | 9    | 469  | 55705 | 6    | 288  | 55738 | 9    | 420  | 55795 | 9    | 429  |
| 55114 | 6    | 261  | 55208 | 6    | 274  | 55306 | 8    | 340  | 55445 | 5    | 236  | 55637 | 9    | 469  | 55705 | 9    | 430  | 55738 | 10   | 530  | 55796 | 9    | 428  |
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| 55116 | 6    | 261  | 55210 | 6    | 274  | 55308 | 8    | 340  | 55449 | 5    | 238  | 55639 | 9    | 469  | 55706 | 9    | 430  | 55739 | 9    | 420  | 55797 | 9    | 428  |
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| 55120 | 6    | 261  | 55214 | 6    | 274  | 55312 | 8    | 340  | 55453 | 5    | 239  | 55643 | 9    | 469  | 55708 | 9    | 430  | 55740 | 10   | 530  | 55799 | 9    | 428  |
| 55121 | 6    | 261  | 55215 | 6    | 275  | 55313 | 8    | 340  | 55455 | 5    | 240  | 55644 | 32   | 891  | 55709 | 6    | 276  | 55741 | 8    | 389  | 55799 | 9    | 429  |
| 55122 | 6    | 261  | 55216 | 6    | 275  | 55314 | 8    | 340  | 55457 | 5    | 240  | 55645 | 6    | 278  | 55710 | 8    | 386  | 55741 | 9    | 420  | 55800 | 9    | 428  |
| 55123 | 6    | 261  | 55217 | 6    | 275  | 55315 | 8    | 340  | 55458 | 5    | 239  | 55646 | 6    | 278  | 55710 | 9    | 420  | 55741 | 10   | 530  | 55800 | 9    | 429  |
| 55124 | 6    | 261  | 55218 | 6    | 275  | 55316 | 8    | 340  | 55460 | 5    | 240  | 55647 | 6    | 278  | 55710 | 10   | 528  | 55742 | 8    | 389  | 55801 | 9    | 428  |
| 55125 | 6    | 262  | 55219 | 6    | 275  | 55317 | 8    | 340  | 55460 | 34   | 964  | 55648 | 6    | 278  | 55711 | 8    | 386  | 55742 | 9    | 420  | 55801 | 9    | 429  |
| 55126 | 6    | 262  | 55220 | 6    | 275  | 55318 | 8    | 340  | 55461 | 5    | 240  | 55649 | 6    | 279  | 55711 | 9    | 420  | 55742 | 10   | 530  | 55802 | 9    | 428  |
| 55127 | 6    | 262  | 55221 | 6    | 275  | 55319 | 8    | 340  | 55461 | 34   | 964  | 55650 | 8    | 325  | 55711 | 10   | 528  | 55743 | 8    | 389  | 55802 | 9    | 429  |
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| 55129 | 6    | 262  | 55223 | 6    | 275  | 55322 | 8    | 340  | 55464 | 34   | 964  | 55652 | 8    | 325  | 55712 | 9    | 420  | 55743 | 10   | 530  | 55803 | 9    | 429  |
| 55130 | 6    | 262  | 55224 | 6    | 275  | 55323 | 8    | 340  | 55465 | 5    | 240  | 55653 | 8    | 330  | 55712 | 10   | 528  | 55744 | 8    | 389  | 55804 | 9    | 428  |
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| 55132 | 6    | 263  | 55226 | 6    | 275  | 55326 | 26   | 810  | 55501 | 5    | 242  | 55656 | 8    | 338  | 55713 | 9    | 420  | 55744 | 10   | 530  | 55805 | 9    | 428  |
| 55133 | 6    | 263  | 55227 | 6    | 272  | 55327 | 26   | 810  | 55502 | 5    | 242  | 55657 | 8    | 338  | 55713 | 10   | 528  | 55745 | 8    | 389  | 55805 | 9    | 429  |
| 55134 | 6    | 263  | 55228 | 6    | 272  | 55328 | 5    | 221  | 55504 | 5    | 244  | 55658 | 8    | 343  | 55714 | 8    | 386  | 55745 | 9    | 420  | 55806 | 9    | 428  |
| 55135 | 6    | 264  | 55229 | 6    | 272  | 55329 | 5    | 221  | 55505 | 5    | 244  | 55659 | 8    | 344  | 55714 | 9    | 420  | 55745 | 10   | 530  | 55806 | 9    | 429  |
| 55136 | 6    | 264  | 55230 | 6    | 272  | 55330 | 5    | 221  | 55507 | 5    | 242  | 55665 | 24   | 776  | 55714 |      |      |       |      |      |       |      |      |

| COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. |
|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|
| 55861 | 6    | 262  | 55955 | 6    | 265  | 56061 | 19   | 732  | 56181 | 3    | 209  | 56287 | 10   | 518  | 56401 | 9    | 478  | 56498 | 15   | 634  | 56613 | 11   | 561  | 56613 | 11   | 561  |
| 55862 | 6    | 263  | 55956 | 6    | 265  | 56062 | 19   | 725  | 56182 | 3    | 210  | 56288 | 10   | 518  | 56402 | 9    | 478  | 56510 | 10   | 524  | 56614 | 11   | 561  | 56614 | 11   | 561  |
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| 55864 | 6    | 264  | 55958 | 6    | 265  | 56064 | 19   | 725  | 56184 | 3    | 210  | 56290 | 10   | 521  | 56405 | 8    | 339  | 56512 | 10   | 524  | 56616 | 11   | 561  | 56616 | 11   | 561  |
| 55865 | 6    | 264  | 55959 | 6    | 265  | 56065 | 19   | 725  | 56190 | 8    | 383  | 56291 | 10   | 517  | 56406 | 8    | 339  | 56513 | 10   | 524  | 56617 | 11   | 561  | 56617 | 11   | 561  |
| 55866 | 6    | 264  | 55960 | 6    | 265  | 56066 | 19   | 733  | 56191 | 8    | 383  | 56292 | 10   | 520  | 56407 | 8    | 339  | 56514 | 10   | 524  | 56618 | 11   | 561  | 56618 | 11   | 561  |
| 55867 | 6    | 264  | 55961 | 6    | 265  | 56067 | 19   | 733  | 56192 | 8    | 383  | 56293 | 10   | 518  | 56408 | 8    | 339  | 56515 | 10   | 524  | 56619 | 11   | 561  | 56619 | 11   | 561  |
| 55868 | 6    | 258  | 55962 | 6    | 265  | 56069 | 6    | 277  | 56193 | 8    | 383  | 56294 | 10   | 517  | 56409 | 8    | 339  | 56516 | 10   | 524  | 56620 | 11   | 561  | 56620 | 11   | 561  |
| 55869 | 6    | 259  | 55963 | 6    | 265  | 56077 | 19   | 736  | 56194 | 8    | 383  | 56300 | 8    | 364  | 56410 | 8    | 339  | 56517 | 10   | 524  | 56621 | 11   | 561  | 56621 | 11   | 561  |
| 55870 | 6    | 262  | 55964 | 6    | 265  | 56078 | 19   | 736  | 56195 | 8    | 383  | 56301 | 8    | 364  | 56411 | 8    | 339  | 56518 | 10   | 524  | 56622 | 11   | 561  | 56622 | 11   | 561  |
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| COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. |       |    |     |       |    |     |       |    |     |       |    |     |       |   |     |
|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|----|-----|-------|----|-----|-------|----|-----|-------|----|-----|-------|---|-----|
| 56707 | 11   | 562  | 56801 | 11   | 563  | 56896 | 6    | 289  | 57048 | 2    | 146  | 57152 | 15   | 629  | 57224 | 9    | 434  | 57255 | 10   | 529  | 57309 | 9    | 415  | 56708 | 11   | 562  | 56802 | 11   | 563  | 56896 | 9    | 431  | 57049 | 2  | 153 | 57153 | 8  | 350 | 57224 | 10 | 529 | 57256 | 8  | 388 | 57310 | 9 | 415 |
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| 56713 | 11   | 562  | 56807 | 11   | 563  | 56900 | 9    | 440  | 57054 | 8    | 356  | 57156 | 15   | 629  | 57226 | 9    | 434  | 57258 | 10   | 529  | 57315 | 8    | 390  | 56714 | 11   | 562  | 56808 | 11   | 563  | 56901 | 9    | 440  | 57055 | 8  | 356 | 57157 | 8  | 349 | 57226 | 10 | 529 | 57258 | 8  | 388 | 57316 | 9 | 421 |
| 56715 | 11   | 562  | 56809 | 11   | 563  | 56902 | 9    | 440  | 57056 | 8    | 356  | 57157 | 15   | 629  | 57227 | 8    | 387  | 57259 | 9    | 434  | 57317 | 8    | 390  | 56716 | 11   | 562  | 56810 | 11   | 563  | 56902 | 9    | 440  | 57056 | 8  | 356 | 57157 | 15 | 629 | 57227 | 8  | 387 | 57259 | 9  | 434 | 57317 | 8 | 390 |
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| 56737 | 11   | 562  | 56831 | 11   | 563  | 56923 | 9    | 440  | 57077 | 12   | 591  | 57173 | 9    | 404  | 57243 | 8    | 387  | 57280 | 9    | 434  | 57338 | 9    | 421  | 56737 | 11   | 562  | 56831 | 11   | 563  | 56923 | 9    | 440  | 57077 | 12 | 591 | 57173 | 9  | 404 | 57243 | 8  | 387 | 57280 | 9  | 434 | 57338 | 9 | 421 |
| 56738 | 11   | 562  | 56832 | 11   | 563  | 56924 | 9    | 440  | 57078 | 12   | 592  | 57174 | 9    | 404  | 57244 | 9    | 434  | 57281 | 10   | 529  | 57339 | 8    | 390  | 56738 | 11   | 562  | 56832 | 11   | 563  | 56924 | 9    | 440  | 57078 | 12 | 592 | 57174 | 9  | 404 | 57244 | 9  | 434 | 57281 | 10 | 529 | 57339 | 8 | 390 |
| 56739 | 11   | 562  | 56833 | 11   | 563  | 56925 | 9    | 440  | 57079 | 12   | 592  | 57175 | 9    | 404  | 57245 | 8    | 387  | 57282 | 9    | 434  | 57340 | 9    | 421  | 56739 | 11   | 562  | 56833 | 11   | 563  | 56925 | 9    | 440  | 57079 | 12 | 592 | 57175 | 9  | 404 | 57245 | 8  | 387 | 57282 | 9  | 434 | 57340 | 9 | 421 |
| 56740 | 11   | 562  | 56834 | 11   | 563  | 56926 | 9    | 440  | 57080 | 12   | 592  | 57176 | 9    | 404  | 57246 | 8    | 387  | 57283 | 9    | 434  | 57341 | 8    | 390  | 56740 | 11   | 562  | 56834 | 11   | 563  | 56926 | 9    | 440  | 57080 | 12 | 592 | 57176 | 9  | 404 | 57246 | 8  | 387 | 57283 | 9  | 434 | 57341 | 8 | 390 |
| 56741 | 11   | 562  | 56835 | 11   | 563  | 56927 | 9    | 440  | 57081 | 12   | 593  | 57177 | 9    | 404  | 57247 | 9    | 434  | 57284 | 10   | 529  | 57342 | 9    | 421  | 56741 | 11   | 562  | 56835 | 11   | 563  | 56927 | 9    | 440  | 57081 | 12 | 593 | 57177 | 9  | 404 | 57247 | 9  | 434 | 57284 | 10 | 529 | 57342 | 9 | 421 |
| 56742 | 11   | 562  | 56836 | 11   | 563  | 56928 | 9    | 440  | 57082 | 12   | 593  | 57178 | 9    | 404  | 57248 | 8    | 387  | 57285 | 9    | 434  | 57343 | 8    | 390  | 56742 | 11   | 562  | 56836 | 11   | 563  | 56928 | 9    | 440  |       |    |     |       |    |     |       |    |     |       |    |     |       |   |     |

| COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. |
|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|
| 57410 | 9    | 436  | 57612 | 21   | 760  | 57726 | 16   | 669  | 57830 | 16   | 675  | 57936 | 16   | 673  | 58045 | 9    | 486  | 58174 | 6    | 286  | 58264 | 6    | 266  |
| 57411 | 9    | 411  | 57613 | 18   | 702  | 57727 | 16   | 669  | 57831 | 16   | 675  | 57937 | 16   | 673  | 58046 | 9    | 486  | 58174 | 9    | 418  | 58265 | 6    | 266  |
| 57412 | 9    | 422  | 57613 | 21   | 760  | 57728 | 16   | 669  | 57832 | 16   | 675  | 57940 | 16   | 674  | 58047 | 9    | 486  | 58175 | 6    | 286  | 58266 | 6    | 266  |
| 57413 | 9    | 437  | 57614 | 18   | 702  | 57729 | 16   | 669  | 57833 | 16   | 675  | 57941 | 16   | 674  | 58048 | 9    | 486  | 58175 | 9    | 418  | 58267 | 6    | 266  |
| 57414 | 9    | 411  | 57614 | 21   | 760  | 57730 | 16   | 669  | 57835 | 16   | 675  | 57942 | 16   | 674  | 58049 | 9    | 486  | 58176 | 6    | 286  | 58268 | 6    | 267  |
| 57415 | 9    | 422  | 57615 | 18   | 702  | 57731 | 16   | 669  | 57836 | 16   | 675  | 57943 | 16   | 674  | 58050 | 9    | 486  | 58176 | 9    | 418  | 58269 | 6    | 267  |
| 57416 | 9    | 437  | 57615 | 21   | 760  | 57732 | 16   | 669  | 57837 | 16   | 675  | 57944 | 16   | 674  | 58055 | 8    | 363  | 58177 | 6    | 286  | 58270 | 6    | 267  |
| 57496 | 11   | 567  | 57616 | 18   | 702  | 57733 | 16   | 669  | 57838 | 16   | 675  | 57945 | 16   | 674  | 58056 | 8    | 363  | 58177 | 9    | 418  | 58271 | 6    | 267  |
| 57497 | 11   | 567  | 57616 | 21   | 760  | 57734 | 16   | 669  | 57839 | 16   | 675  | 57946 | 16   | 674  | 58057 | 8    | 363  | 58178 | 6    | 286  | 58272 | 6    | 267  |
| 57498 | 11   | 567  | 57617 | 18   | 702  | 57735 | 16   | 669  | 57840 | 16   | 675  | 57947 | 16   | 674  | 58058 | 8    | 363  | 58178 | 9    | 418  | 58273 | 6    | 261  |
| 57502 | 11   | 567  | 57617 | 21   | 760  | 57736 | 16   | 669  | 57841 | 16   | 675  | 57948 | 16   | 674  | 58059 | 8    | 363  | 58180 | 6    | 258  | 58274 | 6    | 261  |
| 57504 | 11   | 569  | 57618 | 18   | 702  | 57737 | 16   | 669  | 57842 | 16   | 675  | 57949 | 16   | 674  | 58060 | 8    | 363  | 58181 | 6    | 259  | 58275 | 6    | 261  |
| 57505 | 11   | 569  | 57618 | 21   | 760  | 57738 | 16   | 669  | 57843 | 16   | 675  | 57950 | 16   | 674  | 58061 | 8    | 363  | 58182 | 6    | 262  | 58276 | 6    | 261  |
| 57507 | 11   | 568  | 57619 | 17   | 693  | 57739 | 16   | 669  | 57844 | 16   | 675  | 57951 | 16   | 674  | 58062 | 8    | 363  | 58183 | 6    | 263  | 58277 | 6    | 261  |
| 57522 | 11   | 568  | 57620 | 17   | 693  | 57740 | 16   | 669  | 57845 | 16   | 672  | 57952 | 16   | 674  | 58063 | 8    | 363  | 58184 | 6    | 263  | 58278 | 6    | 262  |
| 57524 | 11   | 569  | 57621 | 17   | 693  | 57741 | 16   | 669  | 57846 | 16   | 672  | 57953 | 16   | 674  | 58064 | 8    | 363  | 58185 | 6    | 264  | 58279 | 6    | 262  |
| 57525 | 28   | 833  | 57622 | 17   | 693  | 57742 | 16   | 669  | 57847 | 16   | 672  | 57954 | 16   | 674  | 58065 | 8    | 363  | 58186 | 6    | 264  | 58280 | 6    | 262  |
| 57526 | 28   | 833  | 57624 | 17   | 693  | 57743 | 16   | 669  | 57848 | 16   | 672  | 57955 | 16   | 674  | 58066 | 8    | 363  | 58187 | 6    | 264  | 58281 | 6    | 262  |
| 57527 | 28   | 833  | 57625 | 17   | 693  | 57744 | 16   | 669  | 57849 | 16   | 672  | 57956 | 16   | 674  | 58067 | 8    | 363  | 58188 | 6    | 264  | 58282 | 6    | 262  |
| 57528 | 28   | 833  | 57626 | 17   | 693  | 57745 | 16   | 669  | 57850 | 16   | 672  | 57957 | 16   | 674  | 58068 | 8    | 363  | 58189 | 6    | 259  | 58283 | 6    | 267  |
| 57529 | 28   | 833  | 57627 | 17   | 693  | 57746 | 16   | 669  | 57851 | 16   | 672  | 57960 | 16   | 674  | 58069 | 8    | 363  | 58190 | 6    | 259  | 58284 | 6    | 267  |
| 57530 | 28   | 834  | 57636 | 17   | 694  | 57747 | 16   | 669  | 57852 | 16   | 672  | 57961 | 16   | 674  | 58070 | 8    | 363  | 58191 | 6    | 259  | 58285 | 6    | 267  |
| 57532 | 25   | 796  | 57637 | 17   | 694  | 57748 | 16   | 669  | 57853 | 16   | 672  | 57962 | 16   | 674  | 58071 | 8    | 362  | 58192 | 6    | 259  | 58286 | 6    | 268  |
| 57533 | 25   | 796  | 57638 | 17   | 694  | 57749 | 16   | 669  | 57854 | 16   | 672  | 57963 | 16   | 674  | 58075 | 8    | 358  | 58193 | 6    | 259  | 58287 | 6    | 268  |
| 57534 | 25   | 796  | 57639 | 17   | 694  | 57750 | 16   | 669  | 57856 | 16   | 672  | 57964 | 16   | 674  | 58076 | 8    | 358  | 58194 | 6    | 259  | 58288 | 6    | 268  |
| 57535 | 10   | 530  | 57640 | 8    | 373  | 57751 | 16   | 672  | 57858 | 16   | 672  | 57965 | 16   | 674  | 58077 | 8    | 358  | 58195 | 6    | 259  | 58289 | 6    | 268  |
| 57536 | 10   | 530  | 57641 | 8    | 373  | 57752 | 16   | 672  | 57859 | 16   | 672  | 57966 | 16   | 675  | 58078 | 8    | 358  | 58196 | 6    | 259  | 58290 | 6    | 268  |
| 57537 | 10   | 530  | 57642 | 8    | 373  | 57753 | 16   | 672  | 57860 | 16   | 672  | 57967 | 16   | 675  | 58079 | 8    | 358  | 58197 | 6    | 260  | 58291 | 6    | 268  |
| 57538 | 10   | 530  | 57643 | 8    | 373  | 57754 | 16   | 672  | 57861 | 16   | 672  | 57968 | 16   | 675  | 58080 | 8    | 358  | 58198 | 6    | 260  | 58292 | 6    | 268  |
| 57539 | 10   | 530  | 57644 | 8    | 373  | 57755 | 16   | 672  | 57864 | 16   | 672  | 57969 | 16   | 675  | 58081 | 8    | 358  | 58199 | 6    | 260  | 58293 | 6    | 268  |
| 57540 | 10   | 530  | 57645 | 17   | 694  | 57756 | 16   | 672  | 57865 | 16   | 672  | 57970 | 16   | 675  | 58082 | 8    | 358  | 58200 | 6    | 260  | 58294 | 6    | 269  |
| 57541 | 10   | 515  | 57646 | 17   | 694  | 57757 | 16   | 672  | 57866 | 16   | 672  | 57971 | 16   | 675  | 58083 | 8    | 358  | 58201 | 6    | 260  | 58295 | 6    | 269  |
| 57542 | 10   | 515  | 57647 | 17   | 694  | 57758 | 16   | 672  | 57867 | 16   | 672  | 57972 | 16   | 675  | 58084 | 8    | 358  | 58202 | 6    | 260  | 58296 | 6    | 269  |
| 57543 | 10   | 515  | 57648 | 17   | 694  | 57759 | 16   | 672  | 57868 | 16   | 672  | 57973 | 16   | 675  | 58085 | 8    | 358  | 58203 | 6    | 263  | 58297 | 6    | 269  |
| 57544 | 10   | 515  | 57650 | 10   | 543  | 57760 | 16   | 670  | 57869 | 16   | 672  | 57974 | 16   | 675  | 58086 | 8    | 358  | 58204 | 6    | 263  | 58298 | 6    | 269  |
| 57545 | 8    | 376  | 57651 | 10   | 544  | 57761 | 16   | 670  | 57870 | 16   | 672  | 57975 | 16   | 675  | 58087 | 8    | 358  | 58205 | 6    | 263  | 58299 | 6    | 269  |
| 57546 | 8    | 376  | 57652 | 10   | 544  | 57762 | 16   | 670  | 57871 | 16   | 672  | 57976 | 16   | 675  | 58088 | 8    | 358  | 58206 | 6    | 263  | 58300 | 6    | 269  |
| 57547 | 8    | 376  | 57653 | 10   | 548  | 57763 | 16   | 670  | 57872 | 16   | 672  | 57977 | 16   | 675  | 58089 | 8    | 358  | 58207 | 6    | 263  | 58301 | 6    | 270  |
| 57548 | 8    | 376  | 57654 | 10   | 548  | 57764 | 16   | 670  | 57873 | 16   | 672  | 57978 | 16   | 675  | 58090 | 8    | 358  | 58208 | 6    | 263  | 58302 | 6    | 270  |
| 57549 | 8    | 376  | 57655 | 25   | 794  | 57765 | 16   | 670  | 57874 | 16   | 672  | 57979 | 16   | 675  | 58091 | 8    | 358  | 58209 | 6    | 263  | 58303 | 6    | 270  |
| 57562 | 10   | 517  | 57656 | 25   | 794  | 57766 | 16   | 670  | 57875 | 16   | 672  | 57980 | 16   | 675  | 58092 | 8    | 358  | 58210 | 6    | 263  | 58304 | 6    | 270  |
| 57563 | 10   | 517  | 57657 | 25   | 795  | 57767 | 16   | 670  | 57876 | 16   | 672  | 57981 | 16   | 675  | 58093 | 8    | 357  | 58211 | 6    | 263  | 58305 | 6    | 270  |
| 57564 | 10   | 517  | 57658 | 25   | 795  | 57768 | 16   | 670  | 57879 | 16   | 672  | 57983 | 9    | 479  | 58095 | 8    | 324  | 58212 | 6    | 264  | 58306 | 6    | 270  |
| 57565 | 6    | 273  | 57664 | 10   | 547  | 57769 | 16   | 670  | 57880 | 16   | 672  | 57984 | 9    | 479  | 58096 | 8    | 324  | 58213 | 6    | 264  | 58307 | 6    | 270  |
| 57566 | 6    | 273  | 57665 | 10   | 545  | 57770 | 16   | 670  | 57881 | 16   | 672  | 57985 | 9    | 468  | 58097 | 8    | 324  | 58214 | 6    | 264  | 58308 | 6    | 270  |
| 57567 | 6    | 273  | 57666 | 10   | 545  | 57771 | 16   | 670  | 57882 | 16   | 672  | 57987 | 9    | 468  | 58098 | 8    | 324  | 58215 | 6    | 265  | 58309 | 6    | 271  |
| 57568 | 6    | 273  | 57667 | 12   | 573  | 57772 | 16   | 670  | 57883 | 16   | 672  | 57988 | 9    | 468  | 58099 | 8    | 324  | 58216 | 6    | 265  | 58310 | 6    | 271  |
| 57569 | 6    | 273  | 57668 | 12   | 574  | 57775 | 8    | 348  | 57884 | 16   | 672  | 57989 | 9    | 468  | 58100 | 8    | 373  | 58217 | 6    | 265  | 58311 | 6    | 271  |
| 57570 | 6    | 273  | 57669 | 10   | 546  | 57776 | 8    | 348  | 57885 | 16   | 672  | 57990 | 9    | 468  | 58101 | 8    | 373  | 58218 | 6    | 265  | 58312 | 6    | 271  |
| 57571 | 6    | 273  | 57675 | 5    | 241  | 57777 | 8    | 348  | 57886 | 16   | 672  | 57992 | 9    | 469  | 58102 | 8    | 373  | 58219 | 6    | 265  | 58313 | 6    | 271  |
| 57572 | 10   | 521  | 57676 | 5    | 241  | 57778 | 8    | 348  | 57887 | 16   | 672  | 57994 | 9    | 469  | 58103 | 8    | 373  | 58220 | 6    | 265  | 58314 | 6    | 271  |
| 57573 | 10   | 503  | 57677 | 5    | 241  | 57779 | 8    | 349  | 57889 | 16   | 672  | 57995 | 9    | 469  | 58104 | 8    | 373  | 58221 | 6    | 265  | 58315 | 6    | 271  |
| 57573 | 10   | 509  | 57678 | 5    | 241  | 57780 | 16   | 670  | 57890 | 16   | 672  | 57996 | 9    | 469  | 58105 | 8    | 373  | 58222 | 6    | 265  | 58316 | 6    | 271  |
| 57573 | 10   | 511  | 57679 | 5    | 241  | 57781 | 16   | 670  | 57891 | 16   | 673  | 57999 | 9    | 472  | 58106 | 8    | 373  | 58223 | 6    | 265  | 58317 | 6    | 272  |
| 57573 | 10   | 514  | 57680 | 5    | 241  | 57782 | 16   | 670  | 57892 | 16   | 673  | 58001 | 9    | 473  | 58107 | 8    | 373  | 58224 | 6    | 265  | 58318 | 6    | 272  |
| 57573 | 10   | 516  | 57681 | 5    | 241  | 57783 | 16   | 670  | 57893 | 16   | 673  | 58002 | 9    | 473  | 58108 | 8    | 373  | 58225 | 6    | 265  | 58319 | 6    | 272  |
| 57573 | 10   | 519  | 57682 | 5    | 241  | 57784 | 16   | 670  | 57897 | 16   | 674  | 58003 | 9    | 473  | 58109 | 8    | 373  | 58226 | 6    | 265  | 58320 | 6    | 272  |
| 57575 | 6    | 269  | 57683 | 5    | 241  | 57785 | 16   | 670  | 57898 | 16   | 674  | 58004 | 9    | 473  | 58110 | 8    | 373  | 58227 | 6    | 258  | 58321 | 6    | 272  |
| 57576 | 6    | 269  | 57684 | 5    | 239  | 57786 | 16   | 670  | 57900 | 16   | 673  | 58008 | 9    | 479  | 58111 | 8    | 373  | 58228 | 6    | 258  | 58322 | 6    | 272  |
| 57580 | 17   | 681  | 57685 | 5    | 239  | 57787 | 16   | 670  | 57901 | 16   | 673  | 58009 | 9    | 479  | 58112 | 8    | 373  | 58229 | 6    | 258  | 58323 | 6    | 272  |
| 57581 | 17   | 681  | 57686 | 10   | 512  | 57788 | 16   | 670  | 57902 | 16   | 673  | 58010 | 9    | 479  | 58113 | 8    | 373  | 58230 | 6    | 258  | 58324 | 6    | 272  |

| COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. |       |    |     |
|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|----|-----|
| 58358 | 6    | 275  | 58463 | 8    | 336  | 58670 | 12   | 596  | 58760 | 8    | 350  | 58990 | 12   | 582  | 59088 | 10   | 521  | 60125 | 20   | 749  | 60356 | 8  | 336 |
| 58359 | 6    | 270  | 58464 | 8    | 336  | 58671 | 12   | 596  | 58761 | 8    | 350  | 58991 | 12   | 582  | 59089 | 10   | 521  | 60134 | 20   | 749  | 60357 | 8  | 336 |
| 58360 | 8    | 365  | 58465 | 8    | 336  | 58672 | 12   | 596  | 58762 | 8    | 350  | 58992 | 12   | 582  | 59092 | 9    | 412  | 60139 | 20   | 749  | 60358 | 8  | 336 |
| 58361 | 8    | 365  | 58466 | 8    | 336  | 58673 | 12   | 596  | 58764 | 10   | 504  | 58993 | 12   | 582  | 59093 | 9    | 412  | 60144 | 20   | 749  | 60359 | 21 | 755 |
| 58362 | 8    | 365  | 58467 | 8    | 336  | 58674 | 12   | 596  | 58765 | 10   | 504  | 58994 | 12   | 582  | 59094 | 9    | 412  | 60154 | 20   | 749  | 60379 | 17 | 693 |
| 58363 | 8    | 365  | 58470 | 9    | 469  | 58675 | 12   | 596  | 58766 | 10   | 504  | 58995 | 12   | 583  | 59095 | 9    | 422  | 60159 | 20   | 749  | 60379 | 18 | 699 |
| 58364 | 8    | 365  | 58510 | 10   | 531  | 58676 | 12   | 597  | 58767 | 10   | 506  | 58996 | 12   | 582  | 59096 | 9    | 422  | 60176 | 19   | 732  | 60380 | 8  | 342 |
| 58365 | 8    | 365  | 58511 | 10   | 531  | 58677 | 12   | 597  | 58768 | 10   | 506  | 58997 | 12   | 583  | 59097 | 9    | 422  | 60176 | 19   | 733  | 60381 | 8  | 342 |
| 58366 | 8    | 365  | 58512 | 10   | 531  | 58678 | 12   | 597  | 58769 | 10   | 506  | 58998 | 12   | 584  | 59098 | 9    | 412  | 60179 | 19   | 729  | 60382 | 8  | 342 |
| 58367 | 8    | 365  | 58513 | 10   | 531  | 58679 | 12   | 597  | 58770 | 10   | 507  | 58999 | 12   | 585  | 59099 | 9    | 412  | 60180 | 19   | 729  | 60383 | 8  | 342 |
| 58368 | 8    | 365  | 58515 | 31   | 872  | 58680 | 12   | 597  | 58773 | 10   | 541  | 59000 | 12   | 584  | 59100 | 9    | 412  | 60181 | 19   | 729  | 60384 | 8  | 342 |
| 58369 | 8    | 365  | 58516 | 31   | 876  | 58681 | 12   | 597  | 58774 | 10   | 541  | 59001 | 12   | 585  | 59101 | 9    | 422  | 60182 | 19   | 729  | 60385 | 8  | 342 |
| 58370 | 8    | 365  | 58520 | 8    | 334  | 58685 | 9    | 443  | 58775 | 10   | 508  | 59002 | 12   | 585  | 59102 | 9    | 422  | 60184 | 19   | 729  | 60386 | 8  | 342 |
| 58371 | 8    | 365  | 58521 | 8    | 334  | 58686 | 9    | 444  | 58776 | 10   | 508  | 59003 | 12   | 585  | 59103 | 9    | 422  | 60194 | 19   | 707  | 60387 | 8  | 342 |
| 58372 | 8    | 365  | 58522 | 8    | 334  | 58687 | 9    | 443  | 58777 | 10   | 508  | 59004 | 12   | 585  | 59104 | 9    | 435  | 60195 | 19   | 707  | 60388 | 8  | 342 |
| 58376 | 8    | 365  | 58523 | 8    | 334  | 58688 | 9    | 444  | 58778 | 10   | 508  | 59005 | 12   | 585  | 59105 | 9    | 435  | 60196 | 19   | 706  | 60389 | 8  | 342 |
| 58377 | 8    | 365  | 58524 | 8    | 334  | 58689 | 9    | 444  | 58779 | 10   | 508  | 59006 | 12   | 583  | 59106 | 9    | 435  | 60214 | 19   | 716  | 60390 | 8  | 342 |
| 58378 | 8    | 365  | 58525 | 8    | 334  | 58690 | 9    | 447  | 58869 | 10   | 542  | 59007 | 12   | 584  | 59108 | 12   | 587  | 60216 | 19   | 734  | 60391 | 8  | 342 |
| 58379 | 8    | 365  | 58526 | 8    | 334  | 58691 | 9    | 448  | 58869 | 12   | 577  | 59008 | 12   | 583  | 59108 | 13   | 602  | 60228 | 27   | 821  | 60392 | 8  | 342 |
| 58380 | 8    | 365  | 58527 | 8    | 334  | 58693 | 9    | 445  | 58870 | 2    | 166  | 59009 | 12   | 584  | 59109 | 12   | 587  | 60229 | 27   | 821  | 60393 | 8  | 342 |
| 58381 | 8    | 365  | 58528 | 8    | 334  | 58694 | 9    | 443  | 58871 | 2    | 167  | 59010 | 12   | 583  | 59109 | 13   | 602  | 60230 | 27   | 821  | 60394 | 8  | 342 |
| 58382 | 8    | 365  | 58529 | 8    | 334  | 58695 | 9    | 448  | 58872 | 2    | 167  | 59011 | 12   | 584  | 59110 | 12   | 587  | 60231 | 27   | 821  | 60420 | 9  | 402 |
| 58383 | 8    | 365  | 58530 | 8    | 334  | 58696 | 9    | 446  | 58873 | 2    | 167  | 59012 | 12   | 583  | 59110 | 13   | 602  | 60232 | 27   | 821  | 60421 | 9  | 402 |
| 58384 | 8    | 365  | 58531 | 8    | 334  | 58697 | 9    | 445  | 58874 | 2    | 167  | 59013 | 12   | 584  | 59111 | 12   | 587  | 60233 | 27   | 821  | 60422 | 9  | 402 |
| 58385 | 8    | 365  | 58532 | 8    | 334  | 58700 | 9    | 450  | 58875 | 10   | 536  | 59014 | 10   | 508  | 59111 | 13   | 602  | 60234 | 27   | 821  | 60423 | 9  | 402 |
| 58386 | 8    | 365  | 58533 | 8    | 334  | 58701 | 9    | 451  | 58876 | 10   | 536  | 59015 | 10   | 508  | 59114 | 10   | 518  | 60235 | 27   | 821  | 60424 | 9  | 402 |
| 58387 | 8    | 365  | 58534 | 8    | 334  | 58702 | 9    | 451  | 58877 | 10   | 536  | 59016 | 10   | 508  | 59115 | 10   | 521  | 60236 | 27   | 821  | 60425 | 9  | 402 |
| 58388 | 8    | 365  | 58535 | 8    | 334  | 58703 | 9    | 450  | 58878 | 10   | 536  | 59017 | 10   | 508  | 59116 | 10   | 523  | 60237 | 27   | 821  | 60426 | 9  | 402 |
| 58389 | 8    | 365  | 58536 | 8    | 334  | 58705 | 9    | 454  | 58879 | 10   | 536  | 59018 | 17   | 688  | 59117 | 10   | 521  | 60239 | 27   | 822  | 60427 | 9  | 402 |
| 58390 | 8    | 365  | 58537 | 8    | 334  | 58706 | 9    | 450  | 58880 | 10   | 536  | 59019 | 17   | 688  | 59118 | 10   | 524  | 60240 | 27   | 822  | 60428 | 9  | 402 |
| 58391 | 8    | 365  | 58538 | 8    | 334  | 58707 | 9    | 453  | 58881 | 10   | 536  | 59020 | 17   | 688  | 59119 | 10   | 523  | 60241 | 27   | 822  | 60429 | 9  | 402 |
| 58396 | 8    | 366  | 58539 | 8    | 334  | 58708 | 9    | 452  | 58882 | 10   | 536  | 59021 | 17   | 688  | 59121 | 9    | 412  | 60242 | 27   | 822  | 60430 | 9  | 402 |
| 58397 | 8    | 366  | 58540 | 8    | 334  | 58710 | 9    | 461  | 58883 | 10   | 536  | 59022 | 17   | 688  | 59122 | 9    | 423  | 60243 | 27   | 822  | 60439 | 9  | 413 |
| 58398 | 8    | 366  | 58541 | 8    | 334  | 58711 | 9    | 455  | 58884 | 10   | 536  | 59023 | 17   | 688  | 59123 | 9    | 437  | 60244 | 27   | 822  | 60440 | 9  | 413 |
| 58399 | 8    | 366  | 58542 | 8    | 334  | 58712 | 9    | 455  | 58885 | 10   | 536  | 59024 | 17   | 689  | 59126 | 13   | 601  | 60245 | 27   | 822  | 60441 | 9  | 413 |
| 58400 | 8    | 366  | 58543 | 8    | 334  | 58713 | 9    | 455  | 58886 | 10   | 536  | 59025 | 17   | 689  | 59128 | 13   | 601  | 60246 | 27   | 822  | 60442 | 9  | 413 |
| 58401 | 8    | 366  | 58544 | 8    | 334  | 58714 | 9    | 454  | 58887 | 13   | 601  | 59026 | 10   | 537  | 59129 | 13   | 601  | 60247 | 27   | 822  | 60443 | 9  | 413 |
| 58402 | 8    | 366  | 58545 | 8    | 334  | 58715 | 9    | 457  | 58890 | 13   | 602  | 59027 | 10   | 537  | 59130 | 10   | 504  | 60248 | 27   | 822  | 60444 | 9  | 413 |
| 58403 | 8    | 366  | 58546 | 8    | 334  | 58716 | 9    | 459  | 58891 | 6    | 286  | 59028 | 10   | 537  | 59131 | 10   | 505  | 60249 | 27   | 822  | 60445 | 9  | 413 |
| 58404 | 8    | 366  | 58547 | 8    | 334  | 58720 | 9    | 455  | 58891 | 9    | 418  | 59029 | 10   | 537  | 59132 | 10   | 505  | 60250 | 27   | 822  | 60446 | 9  | 413 |
| 58405 | 8    | 366  | 58548 | 8    | 334  | 58721 | 9    | 460  | 58891 | 15   | 636  | 59030 | 10   | 537  | 59133 | 10   | 506  | 60251 | 27   | 822  | 60447 | 9  | 413 |
| 58406 | 8    | 366  | 58549 | 8    | 334  | 58722 | 9    | 456  | 58892 | 6    | 286  | 59031 | 10   | 537  | 59134 | 10   | 507  | 60252 | 27   | 822  | 60448 | 9  | 413 |
| 58407 | 8    | 366  | 58550 | 8    | 334  | 58723 | 9    | 455  | 58892 | 9    | 418  | 59032 | 10   | 538  | 59135 | 10   | 507  | 60253 | 27   | 822  | 60449 | 9  | 413 |
| 58408 | 8    | 366  | 58559 | 2    | 163  | 58726 | 9    | 449  | 58893 | 6    | 286  | 59033 | 10   | 538  | 59145 | 2    | 79   | 60257 | 27   | 826  | 60450 | 9  | 413 |
| 58409 | 8    | 366  | 58590 | 2    | 161  | 58727 | 9    | 449  | 58893 | 9    | 418  | 59034 | 10   | 538  | 59146 | 2    | 79   | 60258 | 27   | 826  | 60451 | 9  | 413 |
| 58410 | 8    | 366  | 58591 | 2    | 163  | 58728 | 9    | 449  | 58894 | 6    | 286  | 59035 | 10   | 538  | 59147 | 2    | 79   | 60259 | 27   | 826  | 60452 | 9  | 413 |
| 58411 | 8    | 366  | 58592 | 2    | 163  | 58731 | 6    | 293  | 58894 | 9    | 418  | 59036 | 10   | 538  | 59148 | 2    | 75   | 60271 | 27   | 826  | 60453 | 9  | 413 |
| 58412 | 8    | 366  | 58594 | 2    | 161  | 58731 | 9    | 477  | 58895 | 6    | 286  | 59037 | 10   | 538  | 59149 | 2    | 75   | 60273 | 27   | 826  | 60459 | 9  | 425 |
| 58413 | 8    | 366  | 58595 | 2    | 161  | 58732 | 6    | 293  | 58895 | 9    | 418  | 59038 | 10   | 538  | 59150 | 2    | 75   | 60282 | 20   | 744  | 60460 | 9  | 425 |
| 58414 | 8    | 366  | 58596 | 2    | 162  | 58732 | 9    | 477  | 58896 | 6    | 286  | 59039 | 10   | 538  | 59151 | 2    | 77   | 60283 | 20   | 744  | 60461 | 9  | 425 |
| 58415 | 8    | 366  | 58597 | 2    | 162  | 58733 | 6    | 293  | 58896 | 9    | 418  | 59040 | 10   | 539  | 59152 | 2    | 77   | 60284 | 20   | 745  | 60462 | 9  | 425 |
| 58416 | 8    | 366  | 58598 | 2    | 162  | 58733 | 9    | 477  | 58897 | 6    | 287  | 59041 | 10   | 539  | 59153 | 2    | 77   | 60285 | 20   | 745  | 60463 | 9  | 425 |
| 58417 | 8    | 366  | 58599 | 2    | 162  | 58734 | 6    | 293  | 58897 | 9    | 419  | 59042 | 10   | 539  | 59154 | 2    | 80   | 60286 | 20   | 746  | 60464 | 9  | 425 |
| 58418 | 8    | 366  | 58600 | 2    | 162  | 58734 | 9    | 477  | 58900 | 6    | 281  | 59043 | 10   | 539  | 59155 | 2    | 114  | 60287 | 20   | 746  | 60465 | 9  | 425 |
| 58419 | 8    | 366  | 58601 | 2    | 162  | 58735 | 6    | 293  | 58900 | 9    | 406  | 59045 | 10   | 540  | 59156 | 2    | 114  | 60288 | 20   | 747  | 60466 | 9  | 425 |
| 58420 | 8    | 366  | 58602 | 2    | 162  | 58735 | 9    | 477  | 58901 | 10   | 536  | 59046 | 10   | 540  | 59157 | 2    | 114  | 60289 | 20   | 747  | 60467 | 9  | 425 |
| 58421 | 8    | 366  | 58603 | 2    | 162  | 58736 | 6    | 293  | 58902 | 10   | 541  | 59047 | 10   | 540  | 59160 | 37   | 1182 | 60290 | 20   | 740  | 60468 | 9  | 425 |
| 58422 | 8    | 366  | 58605 | 2    | 161  | 58736 | 9    | 477  | 58902 | 12   | 577  | 59048 | 10   | 540  | 59989 | 9    | 402  | 60291 | 20   | 740  | 60469 | 9  | 425 |
| 58425 | 8    | 374  | 58606 | 2    | 161  | 58737 | 6    | 294  | 58903 | 10   | 541  | 59049 | 10   | 540  | 59990 | 9    | 472  | 60292 | 20   | 741  | 60470 | 9  | 425 |
| 58426 | 8    | 374  | 58607 | 2    | 162  | 58737 | 9    | 477  | 58903 | 12   | 577  | 59050 | 10   | 540  | 59992 | 9    | 402  | 60293 | 20   | 741  | 60471 | 9  | 425 |
| 58427 | 8    | 374  | 58608 | 2    | 162  | 58738 | 6    | 294  | 58904 | 8    | 346  | 59051 | 10   | 540  | 59993 | 9    | 403  | 60296 | 20   | 742  | 60472 | 9  | 4   |





| COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. |
|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|
| 61557 | 8    | 392  | 61778 | 8    | 341  | 61877 | 8    | 378  | 62123 | 3    | 199  | 62234 | 25   | 787  | 62575 | 4    | 213  |
| 61558 | 8    | 320  | 61779 | 8    | 341  | 61878 | 8    | 378  | 62124 | 3    | 199  | 62241 | 3    | 191  | 62576 | 4    | 213  |
| 61569 | 8    | 319  | 61780 | 8    | 341  | 61879 | 8    | 378  | 62125 | 3    | 199  | 62242 | 3    | 191  | 62577 | 4    | 213  |
| 61570 | 22   | 768  | 61781 | 8    | 341  | 61880 | 8    | 378  | 62126 | 3    | 199  | 62243 | 3    | 191  | 62578 | 4    | 213  |
| 61572 | 22   | 768  | 61782 | 8    | 341  | 61881 | 8    | 378  | 62127 | 3    | 200  | 62244 | 3    | 192  | 62579 | 4    | 213  |
| 61578 | 22   | 768  | 61783 | 8    | 341  | 61882 | 8    | 379  | 62128 | 3    | 200  | 62245 | 3    | 192  | 62580 | 4    | 213  |
| 61579 | 15   | 638  | 61784 | 8    | 341  | 61883 | 8    | 379  | 62129 | 3    | 200  | 62246 | 3    | 192  | 62581 | 4    | 213  |
| 61579 | 22   | 768  | 61785 | 8    | 341  | 61884 | 8    | 379  | 62133 | 3    | 200  | 62247 | 3    | 192  | 62582 | 4    | 213  |
| 61580 | 22   | 768  | 61786 | 8    | 341  | 61885 | 8    | 379  | 62134 | 3    | 200  | 62248 | 3    | 193  | 62583 | 4    | 213  |
| 61581 | 22   | 768  | 61787 | 8    | 341  | 61886 | 8    | 379  | 62135 | 3    | 200  | 62249 | 3    | 193  | 62584 | 4    | 213  |
| 61581 | 37   | 1167 | 61788 | 8    | 341  | 61887 | 8    | 379  | 62136 | 3    | 202  | 62260 | 3    | 206  | 62585 | 4    | 213  |
| 61582 | 8    | 320  | 61789 | 8    | 341  | 61888 | 8    | 379  | 62136 | 21   | 764  | 62261 | 3    | 206  | 62586 | 4    | 214  |
| 61583 | 5    | 252  | 61790 | 8    | 341  | 61889 | 8    | 379  | 62138 | 3    | 199  | 62265 | 3    | 196  | 62587 | 4    | 214  |
| 61584 | 5    | 252  | 61791 | 9    | 446  | 61890 | 8    | 379  | 62140 | 3    | 199  | 62284 | 32   | 888  | 62588 | 4    | 214  |
| 61585 | 5    | 252  | 61792 | 9    | 454  | 61891 | 8    | 379  | 62142 | 3    | 199  | 62291 | 3    | 201  | 62589 | 4    | 214  |
| 61586 | 5    | 252  | 61793 | 9    | 460  | 61892 | 8    | 379  | 62144 | 3    | 200  | 62292 | 3    | 201  | 62590 | 4    | 214  |
| 61587 | 5    | 252  | 61794 | 8    | 382  | 61893 | 8    | 379  | 62145 | 3    | 200  | 62294 | 3    | 201  | 62591 | 15   | 631  |
| 61588 | 5    | 252  | 61794 | 8    | 383  | 61894 | 8    | 379  | 62146 | 3    | 200  | 62295 | 3    | 201  | 62592 | 32   | 887  |
| 61589 | 5    | 252  | 61795 | 8    | 382  | 61895 | 8    | 379  | 62151 | 32   | 888  | 62297 | 3    | 201  | 62593 | 32   | 887  |
| 61590 | 5    | 252  | 61795 | 8    | 383  | 61898 | 7    | 300  | 62159 | 25   | 787  | 62298 | 3    | 201  | 62593 | 32   | 887  |
| 61591 | 5    | 252  | 61796 | 9    | 456  | 61906 | 7    | 299  | 62164 | 32   | 889  | 62299 | 3    | 178  | 62594 | 32   | 887  |
| 61592 | 5    | 252  | 61797 | 9    | 456  | 61907 | 7    | 299  | 62169 | 25   | 786  | 62300 | 3    | 179  | 62595 | 32   | 887  |
| 61593 | 5    | 252  | 61798 | 9    | 456  | 61908 | 7    | 299  | 62170 | 25   | 786  | 62300 | 3    | 196  | 62596 | 32   | 887  |
| 61594 | 8    | 320  | 61799 | 9    | 456  | 61909 | 7    | 299  | 62171 | 25   | 786  | 62301 | 3    | 179  | 62597 | 32   | 887  |
| 61600 | 8    | 396  | 61800 | 9    | 424  | 61910 | 7    | 300  | 62172 | 3    | 206  | 62302 | 3    | 179  | 62598 | 3    | 179  |
| 61615 | 8    | 393  | 61801 | 9    | 424  | 61911 | 7    | 300  | 62174 | 3    | 208  | 62303 | 3    | 179  | 62601 | 3    | 208  |
| 61616 | 8    | 393  | 61802 | 9    | 424  | 61912 | 7    | 300  | 62174 | 15   | 630  | 62307 | 3    | 179  | 62601 | 15   | 630  |
| 61617 | 8    | 393  | 61803 | 9    | 424  | 61934 | 7    | 304  | 62177 | 3    | 206  | 62308 | 3    | 179  | 62602 | 15   | 633  |
| 61618 | 8    | 393  | 61804 | 9    | 424  | 61935 | 7    | 304  | 62178 | 3    | 206  | 62309 | 3    | 180  | 62602 | 15   | 633  |
| 61619 | 8    | 393  | 61805 | 9    | 424  | 61936 | 7    | 305  | 62179 | 3    | 206  | 62340 | 3    | 180  | 62603 | 6    | 258  |
| 61620 | 8    | 393  | 61806 | 9    | 424  | 61937 | 7    | 305  | 62180 | 3    | 189  | 62341 | 3    | 180  | 62603 | 9    | 411  |
| 61621 | 8    | 393  | 61807 | 9    | 424  | 61938 | 7    | 305  | 62180 | 15   | 633  | 62342 | 3    | 180  | 62604 | 6    | 258  |
| 61622 | 8    | 393  | 61808 | 9    | 424  | 61939 | 7    | 305  | 62181 | 3    | 189  | 62343 | 3    | 180  | 62604 | 9    | 421  |
| 61623 | 8    | 393  | 61809 | 9    | 424  | 61940 | 7    | 305  | 62181 | 15   | 633  | 62344 | 3    | 180  | 62606 | 6    | 258  |
| 61624 | 8    | 393  | 61810 | 9    | 424  | 61941 | 7    | 305  | 62182 | 3    | 189  | 62345 | 3    | 181  | 62606 | 9    | 436  |
| 61652 | 8    | 331  | 61811 | 9    | 424  | 61942 | 7    | 302  | 62182 | 15   | 632  | 62346 | 3    | 181  | 62618 | 32   | 888  |
| 61653 | 8    | 336  | 61812 | 9    | 424  | 61943 | 7    | 302  | 62183 | 3    | 189  | 62348 | 3    | 181  | 62620 | 6    | 257  |
| 61695 | 6    | 258  | 61813 | 9    | 424  | 61944 | 7    | 303  | 62183 | 15   | 632  | 62349 | 3    | 181  | 62620 | 9    | 411  |
| 61695 | 9    | 409  | 61814 | 9    | 424  | 61945 | 7    | 303  | 62188 | 25   | 786  | 62350 | 3    | 178  | 62622 | 8    | 315  |
| 61696 | 6    | 258  | 61815 | 9    | 424  | 61946 | 7    | 303  | 62189 | 25   | 787  | 62370 | 3    | 180  | 62624 | 3    | 203  |
| 61696 | 9    | 419  | 61816 | 9    | 424  | 61947 | 7    | 303  | 62190 | 25   | 781  | 62414 | 3    | 207  | 62624 | 15   | 639  |
| 61697 | 6    | 258  | 61817 | 9    | 424  | 61948 | 7    | 303  | 62191 | 25   | 781  | 62437 | 3    | 199  | 62625 | 3    | 203  |
| 61697 | 9    | 433  | 61818 | 9    | 424  | 61949 | 7    | 303  | 62192 | 25   | 782  | 62438 | 3    | 199  | 62625 | 3    | 203  |
| 61700 | 8    | 331  | 61819 | 9    | 424  | 61958 | 9    | 446  | 62193 | 25   | 781  | 62439 | 3    | 199  | 62627 | 3    | 203  |
| 61701 | 8    | 331  | 61820 | 9    | 424  | 61959 | 9    | 451  | 62194 | 25   | 781  | 62440 | 3    | 199  | 62627 | 15   | 639  |
| 61702 | 8    | 331  | 61821 | 9    | 424  | 61960 | 9    | 458  | 62195 | 25   | 781  | 62441 | 19   | 730  | 62628 | 3    | 203  |
| 61703 | 8    | 331  | 61822 | 9    | 424  | 61961 | 9    | 447  | 62196 | 25   | 781  | 62442 | 19   | 730  | 62628 | 15   | 639  |
| 61704 | 8    | 331  | 61823 | 9    | 424  | 61962 | 9    | 452  | 62197 | 25   | 781  | 62443 | 19   | 730  | 62629 | 8    | 331  |
| 61705 | 8    | 331  | 61824 | 8    | 382  | 61963 | 9    | 458  | 62198 | 25   | 781  | 62444 | 19   | 730  | 62650 | 8    | 315  |
| 61706 | 8    | 331  | 61825 | 8    | 382  | 62001 | 10   | 526  | 62199 | 25   | 781  | 62445 | 3    | 202  | 62651 | 8    | 315  |
| 61707 | 8    | 331  | 61826 | 8    | 382  | 62002 | 10   | 526  | 62200 | 25   | 782  | 62446 | 3    | 202  | 62652 | 8    | 315  |
| 61708 | 8    | 331  | 61827 | 8    | 382  | 62003 | 10   | 526  | 62201 | 25   | 781  | 62447 | 3    | 202  | 62653 | 8    | 315  |
| 61709 | 8    | 331  | 61828 | 8    | 382  | 62004 | 10   | 526  | 62202 | 25   | 781  | 62449 | 19   | 730  | 62654 | 8    | 315  |
| 61710 | 8    | 331  | 61829 | 8    | 382  | 62005 | 10   | 526  | 62203 | 25   | 781  | 62450 | 3    | 187  | 62655 | 8    | 315  |
| 61711 | 8    | 331  | 61830 | 8    | 382  | 62006 | 10   | 526  | 62204 | 25   | 781  | 62452 | 3    | 187  | 62656 | 8    | 315  |
| 61712 | 8    | 331  | 61831 | 8    | 382  | 62007 | 10   | 526  | 62205 | 25   | 781  | 62453 | 3    | 188  | 62657 | 8    | 315  |
| 61713 | 8    | 332  | 61832 | 8    | 382  | 62008 | 10   | 526  | 62206 | 25   | 781  | 62454 | 3    | 188  | 62658 | 8    | 315  |
| 61725 | 8    | 335  | 61833 | 8    | 382  | 62009 | 10   | 526  | 62209 | 3    | 198  | 62459 | 3    | 188  | 62659 | 8    | 315  |
| 61726 | 8    | 335  | 61834 | 8    | 382  | 62010 | 10   | 526  | 62213 | 3    | 190  | 62464 | 19   | 730  | 62660 | 8    | 315  |
| 61727 | 8    | 335  | 61835 | 8    | 382  | 62011 | 10   | 526  | 62214 | 3    | 189  | 62479 | 3    | 177  | 62661 | 8    | 315  |
| 61728 | 8    | 335  | 61836 | 8    | 382  | 62012 | 10   | 526  | 62214 | 15   | 632  | 62480 | 3    | 177  | 62662 | 8    | 315  |
| 61729 | 8    | 335  | 61838 | 8    | 382  | 62013 | 10   | 526  | 62215 | 3    | 189  | 62485 | 3    | 207  | 62663 | 8    | 315  |
| 61730 | 8    | 335  | 61840 | 8    | 384  | 62014 | 10   | 526  | 62215 | 15   | 632  | 62486 | 3    | 207  | 62664 | 8    | 315  |
| 61731 | 8    | 335  | 61841 | 8    | 384  | 62015 | 10   | 526  | 62216 | 3    | 189  | 62487 | 3    | 207  | 62665 | 8    | 315  |
| 61732 | 8    | 335  | 61842 | 8    | 384  | 62016 | 10   | 526  | 62216 | 15   | 632  | 62489 | 3    | 208  | 62666 | 8    | 315  |
| 61733 | 8    | 335  | 61843 | 8    | 384  | 62017 | 10   | 526  | 62217 | 3    | 189  | 62490 | 3    | 208  | 62667 | 8    | 315  |
| 61734 | 8    | 335  | 61844 | 8    | 384  | 62018 | 10   | 526  | 62217 | 15   | 632  | 62491 | 3    | 208  | 62668 | 8    | 315  |
| 61735 | 8    | 335  | 61845 | 8    | 384  | 62019 | 10   | 526  | 62218 | 3    | 189  | 62492 | 3    | 207  | 62669 | 8    | 315  |
| 61736 | 8    | 335  | 61846 | 8    | 384  | 62020 | 10   | 526  | 62218 | 15   | 632  | 62493 | 32   | 887  | 62670 | 8    | 315  |
| 61737 | 8    | 335  | 61847 | 8    | 384  | 62021 | 10   | 526  | 62219 | 3    | 189  | 62494 | 15   | 631  | 62671 | 8    | 315  |
| 61738 | 8    | 335  | 61848 | 8    | 384  | 62022 | 10   | 526  | 62219 | 15   | 632  | 62494 | 32   | 887  | 62672 | 8    | 315  |
| 61739 | 8    | 335  | 61849 | 8    | 384  | 62023 | 10   | 526  | 62220 | 3    | 189  | 62495 | 3    | 177  | 62673 | 8    | 315  |
| 61740 | 8    | 335  | 61850 | 8    | 384  | 62024 | 10   | 526  | 62220 | 15   | 632  | 62496 | 3    | 177  | 62674 | 8    | 315  |
| 61741 | 8    | 335  | 61851 | 8    | 384  | 62025 | 10   | 526  | 62221 | 3    | 189  | 62498 | 3    | 178  | 62675 | 8    | 315  |
| 61742 | 8    | 335  | 61852 | 8    | 384  | 62026 | 10   | 527  | 62221 | 15   | 632  | 62499 | 3    | 178  | 62676 | 8    | 315  |
| 61743 | 8    | 335  | 61853 | 8    | 384  | 62027 | 10   | 527  | 62222 | 3    | 189  | 62500 | 3    | 178  | 62677 | 8    | 315  |
| 61744 | 8    | 335  | 61854 | 8    | 384  | 62028 | 8    | 382  | 62222 | 15   | 633  | 62501 | 3    | 178  | 62678 | 8    | 315  |
| 61745 | 8    | 335  | 61855 | 8    | 384  | 62029 | 8    | 382  | 62223 | 3    | 189  | 62508 | 3    | 207  | 62679 | 8    | 315  |
| 61746 | 8    | 335  | 61856 | 8    | 384  | 62030 | 8    | 382  | 62223 | 15   | 633  | 62509 | 3    | 207  | 62680 | 8    | 317  |
| 61747 | 8    | 335  | 61858 | 8    | 384  | 62050 | 17   | 686  | 62224 | 3    | 189  | 62513 | 25   | 783  | 62681 | 8    | 317  |
| 61748 | 8    | 335  | 61859 | 9    | 441  | 62051 | 17   | 686  | 62224 | 15   | 633  | 62514 | 25   | 783  | 62682 | 8    | 317  |
| 61749 | 8    | 335  | 61860 | 9    |      |       |      |      |       |      |      |       |      |      |       |      |      |



| COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. |       |   |     |
|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|---|-----|
| 64240 | 20   | 743  | 64419 | 28   | 834  | 64616 | 25   | 796  | 64683 | 20   | 747  | 64783 | 19   | 724  | 64968 | 8    | 375  | 65072 | 9    | 427  | 65210 | 9 | 466 |
| 64240 | 20   | 744  | 64426 | 27   | 825  | 64617 | 15   | 641  | 64683 | 20   | 749  | 64783 | 19   | 728  | 64969 | 8    | 375  | 65073 | 9    | 427  | 65211 | 9 | 466 |
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| 64241 | 20   | 743  | 64434 | 25   | 785  | 64618 | 15   | 641  | 64695 | 43   | 1356 | 64784 | 19   | 728  | 64971 | 8    | 375  | 65075 | 9    | 461  | 65213 | 9 | 468 |
| 64241 | 20   | 744  | 64435 | 25   | 785  | 64618 | 25   | 797  | 64697 | 43   | 1356 | 64785 | 19   | 724  | 64972 | 8    | 375  | 65076 | 8    | 376  | 65214 | 9 | 468 |
| 64241 | 20   | 748  | 64436 | 25   | 785  | 64619 | 15   | 641  | 64698 | 43   | 1355 | 64785 | 19   | 728  | 64973 | 8    | 375  | 65077 | 8    | 376  | 65215 | 9 | 468 |
| 64242 | 20   | 743  | 64437 | 25   | 786  | 64619 | 25   | 797  | 64699 | 43   | 1354 | 64788 | 43   | 1354 | 64974 | 8    | 375  | 65078 | 8    | 376  | 65216 | 9 | 468 |
| 64242 | 20   | 748  | 64438 | 25   | 786  | 64620 | 15   | 642  | 64701 | 43   | 1356 | 64836 | 43   | 1352 | 64975 | 8    | 375  | 65079 | 8    | 376  | 65217 | 9 | 468 |
| 64243 | 20   | 743  | 64439 | 25   | 786  | 64620 | 25   | 797  | 64705 | 43   | 1356 | 64837 | 43   | 1352 | 64976 | 8    | 375  | 65080 | 8    | 376  | 65218 | 9 | 468 |
| 64243 | 20   | 744  | 64440 | 25   | 786  | 64623 | 20   | 744  | 64730 | 3    | 193  | 64838 | 43   | 1352 | 64977 | 8    | 375  | 65081 | 8    | 376  | 65219 | 9 | 468 |
| 64243 | 20   | 748  | 64441 | 25   | 786  | 64623 | 20   | 745  | 64730 | 34   | 961  | 64842 | 43   | 1349 | 64978 | 8    | 375  | 65089 | 8    | 371  | 65220 | 9 | 468 |
| 64244 | 20   | 743  | 64442 | 25   | 786  | 64623 | 20   | 749  | 64731 | 3    | 193  | 64843 | 43   | 1349 | 64979 | 8    | 375  | 65090 | 8    | 371  | 65221 | 9 | 468 |
| 64244 | 20   | 748  | 64443 | 25   | 786  | 64624 | 20   | 743  | 64731 | 34   | 961  | 64849 | 1    | 21   | 64980 | 8    | 375  | 65091 | 8    | 371  | 65222 | 9 | 468 |
| 64245 | 20   | 743  | 64444 | 25   | 786  | 64624 | 20   | 744  | 64732 | 3    | 194  | 64852 | 43   | 1348 | 64981 | 8    | 375  | 65092 | 8    | 371  | 65223 | 9 | 468 |
| 64245 | 20   | 748  | 64446 | 21   | 756  | 64624 | 20   | 745  | 64732 | 34   | 961  | 64853 | 43   | 1348 | 64982 | 8    | 375  | 65093 | 8    | 371  | 65224 | 9 | 468 |
| 64246 | 20   | 743  | 64447 | 18   | 701  | 64624 | 20   | 746  | 64733 | 3    | 194  | 64869 | 10   | 520  | 64983 | 8    | 375  | 65095 | 8    | 371  | 65225 | 9 | 468 |
| 64246 | 20   | 748  | 64447 | 21   | 756  | 64624 | 20   | 747  | 64733 | 34   | 962  | 64870 | 10   | 520  | 64984 | 8    | 375  | 65096 | 8    | 371  | 65226 | 9 | 468 |
| 64248 | 20   | 743  | 64448 | 21   | 756  | 64624 | 20   | 749  | 64734 | 3    | 194  | 64871 | 10   | 520  | 64985 | 8    | 375  | 65098 | 8    | 371  | 65227 | 9 | 472 |
| 64248 | 20   | 749  | 64449 | 18   | 701  | 64625 | 20   | 744  | 64734 | 34   | 962  | 64872 | 10   | 520  | 64986 | 8    | 375  | 65099 | 8    | 371  | 65228 | 9 | 472 |
| 64249 | 20   | 743  | 64449 | 21   | 757  | 64625 | 20   | 748  | 64735 | 3    | 194  | 64873 | 10   | 520  | 64987 | 8    | 375  | 65100 | 8    | 371  | 65229 | 9 | 472 |
| 64249 | 20   | 744  | 64495 | 19   | 724  | 64626 | 20   | 744  | 64735 | 34   | 962  | 64875 | 10   | 521  | 64988 | 8    | 375  | 65102 | 8    | 371  | 65230 | 9 | 472 |
| 64249 | 20   | 748  | 64495 | 19   | 728  | 64626 | 20   | 748  | 64736 | 3    | 195  | 64876 | 10   | 521  | 64989 | 8    | 375  | 65107 | 8    | 376  | 65231 | 9 | 472 |
| 64258 | 17   | 694  | 64496 | 19   | 724  | 64628 | 20   | 744  | 64736 | 34   | 962  | 64877 | 10   | 521  | 64990 | 8    | 375  | 65108 | 8    | 376  | 65232 | 9 | 472 |
| 64259 | 17   | 694  | 64496 | 19   | 728  | 64628 | 20   | 748  | 64737 | 3    | 195  | 64878 | 10   | 521  | 64991 | 8    | 375  | 65109 | 8    | 376  | 65233 | 9 | 472 |
| 64260 | 17   | 694  | 64497 | 19   | 724  | 64629 | 20   | 744  | 64737 | 34   | 963  | 64879 | 10   | 521  | 64992 | 8    | 375  | 65110 | 8    | 376  | 65234 | 9 | 472 |
| 64261 | 17   | 694  | 64497 | 19   | 728  | 64629 | 20   | 748  | 64738 | 43   | 1357 | 64880 | 10   | 521  | 64993 | 8    | 375  | 65111 | 8    | 376  | 65235 | 9 | 472 |
| 64338 | 17   | 686  | 64498 | 19   | 724  | 64630 | 20   | 744  | 64740 | 5    | 240  | 64881 | 10   | 521  | 64994 | 8    | 375  | 65112 | 8    | 376  | 65236 | 9 | 472 |
| 64339 | 17   | 686  | 64498 | 19   | 728  | 64630 | 20   | 749  | 64740 | 34   | 963  | 64882 | 10   | 521  | 64995 | 8    | 375  | 65113 | 8    | 377  | 65237 | 9 | 472 |
| 64340 | 17   | 686  | 64499 | 19   | 724  | 64631 | 20   | 744  | 64741 | 5    | 240  | 64883 | 10   | 521  | 64996 | 8    | 375  | 65114 | 8    | 377  | 65238 | 9 | 472 |
| 64341 | 17   | 686  | 64499 | 19   | 728  | 64631 | 20   | 749  | 64741 | 34   | 963  | 64884 | 10   | 521  | 64997 | 8    | 375  | 65115 | 8    | 377  | 65239 | 9 | 472 |
| 64342 | 17   | 686  | 64500 | 19   | 724  | 64632 | 20   | 745  | 64742 | 5    | 240  | 64885 | 10   | 521  | 64998 | 8    | 375  | 65116 | 8    | 377  | 65240 | 9 | 472 |
| 64343 | 17   | 686  | 64500 | 19   | 728  | 64632 | 20   | 748  | 64742 | 34   | 963  | 64886 | 10   | 521  | 64999 | 8    | 375  | 65117 | 8    | 377  | 65241 | 9 | 472 |
| 64344 | 17   | 686  | 64502 | 8    | 317  | 64633 | 20   | 745  | 64743 | 5    | 240  | 64887 | 10   | 521  | 65001 | 9    | 442  | 65118 | 8    | 377  | 65242 | 9 | 472 |
| 64345 | 17   | 686  | 64500 | 25   | 793  | 64633 | 20   | 749  | 64743 | 34   | 963  | 64903 | 43   | 1349 | 65002 | 9    | 442  | 65119 | 8    | 377  | 65243 | 9 | 472 |
| 64346 | 17   | 687  | 64551 | 25   | 793  | 64634 | 20   | 745  | 64744 | 5    | 240  | 64905 | 43   | 1349 | 65003 | 9    | 442  | 65120 | 8    | 377  | 65244 | 9 | 472 |
| 64347 | 17   | 687  | 64552 | 25   | 793  | 64634 | 20   | 748  | 64744 | 34   | 963  | 64908 | 43   | 1349 | 65004 | 9    | 442  | 65121 | 8    | 377  | 65245 | 9 | 473 |
| 64348 | 17   | 687  | 64553 | 25   | 793  | 64635 | 20   | 745  | 64745 | 5    | 240  | 64909 | 43   | 1349 | 65005 | 9    | 442  | 65122 | 8    | 377  | 65246 | 9 | 473 |
| 64349 | 17   | 687  | 64554 | 25   | 793  | 64635 | 20   | 748  | 64745 | 34   | 963  | 64910 | 43   | 1349 | 65006 | 9    | 442  | 65123 | 8    | 377  | 65247 | 9 | 473 |
| 64350 | 17   | 687  | 64555 | 25   | 793  | 64636 | 20   | 745  | 64746 | 5    | 240  | 64912 | 8    | 373  | 65007 | 9    | 442  | 65124 | 8    | 378  | 65248 | 9 | 473 |
| 64351 | 17   | 687  | 64556 | 25   | 793  | 64636 | 20   | 748  | 64746 | 34   | 963  | 64913 | 8    | 373  | 65008 | 9    | 442  | 65125 | 8    | 378  | 65249 | 9 | 473 |
| 64352 | 17   | 694  | 64557 | 25   | 793  | 64637 | 20   | 745  | 64747 | 5    | 240  | 64914 | 8    | 374  | 65009 | 9    | 442  | 65126 | 8    | 378  | 65250 | 9 | 473 |
| 64353 | 17   | 694  | 64558 | 25   | 793  | 64637 | 20   | 748  | 64747 | 34   | 964  | 64915 | 8    | 374  | 65010 | 9    | 442  | 65127 | 8    | 378  | 65251 | 9 | 473 |
| 64355 | 27   | 823  | 64559 | 25   | 793  | 64638 | 20   | 745  | 64748 | 5    | 240  | 64916 | 8    | 374  | 65011 | 9    | 442  | 65128 | 8    | 378  | 65252 | 9 | 473 |
| 64356 | 27   | 823  | 64560 | 25   | 793  | 64638 | 20   | 748  | 64748 | 34   | 964  | 64917 | 8    | 374  | 65012 | 9    | 442  | 65145 | 28   | 832  | 65253 | 9 | 479 |
| 64357 | 27   | 823  | 64561 | 25   | 793  | 64639 | 20   | 746  | 64749 | 5    | 240  | 64918 | 8    | 374  | 65013 | 9    | 442  | 65147 | 28   | 832  | 65254 | 9 | 479 |
| 64358 | 27   | 823  | 64562 | 25   | 793  | 64639 | 20   | 748  | 64749 | 34   | 964  | 64919 | 8    | 374  | 65014 | 9    | 442  | 65148 | 28   | 832  | 65255 | 9 | 479 |
| 64359 | 27   | 823  | 64563 | 25   | 793  | 64640 | 20   | 746  | 64753 | 5    | 241  | 64920 | 8    | 374  | 65015 | 9    | 442  | 65149 | 28   | 832  | 65256 | 9 | 479 |
| 64360 | 27   | 823  | 64564 | 25   | 793  | 64640 | 20   | 748  | 64753 | 34   | 964  | 64921 | 8    | 374  | 65016 | 9    | 442  | 65151 | 28   | 832  | 65257 | 9 | 479 |
| 64361 | 27   | 823  | 64565 | 25   | 793  | 64641 | 20   | 746  | 64754 | 5    | 241  | 64922 | 8    | 374  | 65019 | 43   | 1349 | 65152 | 28   | 832  | 65258 | 9 | 479 |
| 64362 | 27   | 823  | 64566 | 25   | 793  | 64641 | 20   | 748  | 64754 | 34   | 964  | 64923 | 8    | 374  | 65020 | 43   | 1349 | 65153 | 28   | 832  | 65259 | 9 | 479 |
| 64363 | 27   | 823  | 64567 | 25   | 793  | 64642 | 20   | 746  | 64755 | 43   | 1355 | 64924 | 8    | 374  | 65022 | 9    | 442  | 65154 | 28   | 832  | 65260 | 9 | 479 |
| 64364 | 27   | 823  | 64568 | 25   | 793  | 64642 | 20   | 748  | 64756 | 5    | 241  | 64925 | 8    | 374  | 65023 | 9    | 442  | 65155 | 28   | 833  | 65261 | 9 | 479 |
| 64365 | 27   | 823  | 64569 | 25   | 793  | 64643 | 20   | 746  | 64756 | 34   | 964  | 64926 | 8    | 374  | 65024 | 9    | 442  | 65156 | 28   | 833  | 65262 | 9 | 479 |
| 64366 | 27   | 823  | 64570 | 25   | 793  | 64643 | 20   | 748  | 64757 | 5    | 241  | 64927 | 8    | 374  | 65025 | 9    | 442  | 65157 | 28   | 833  | 65263 | 9 | 479 |
| 64367 | 27   | 823  | 64571 | 25   | 793  | 64644 | 20   | 747  | 64757 | 34   | 964  | 64928 | 8    | 374  | 65026 | 9    | 442  | 65158 | 28   | 834  | 65264 | 9 | 479 |
| 64368 | 27   | 823  | 64572 | 25   | 793  | 64644 | 20   | 748  | 64758 | 5    | 241  | 64929 | 8    | 374  | 65027 | 9    | 442  | 65163 | 28   | 829  | 65265 | 9 | 479 |
| 64369 | 27   | 823  | 64573 | 25   | 793  | 64645 | 20   | 747  | 64758 | 34   | 964  | 64930 | 8    | 374  | 65028 | 9    | 442  | 65164 | 28   | 829  | 65266 | 9 | 479 |
| 64370 | 27   | 823  | 64574 | 25   | 793  | 64645 | 20   | 748  | 64759 | 43   | 1355 | 64931 | 8    | 374  | 65029 | 9    | 442  | 65165 | 28   | 829  | 65267 | 9 | 479 |
| 64371 | 27   | 823  | 64575 | 25   | 793  | 64646 | 20   | 747  | 64762 | 5    | 241  | 64932 | 8    | 374  | 65030 | 9    | 442  | 65166 | 28   | 829  | 65268 | 9 | 479 |
| 64372 | 27   | 823  | 64576 | 25   | 793  | 64646 | 20   | 748  | 64762 | 34   | 965  | 64933 | 8    | 374  | 65031 | 9    | 442  | 65167 | 28   | 829  | 65269 | 9 | 479 |
| 64373 | 27   | 823  | 64577 | 25   | 793  | 64647 | 20   | 747  | 64763 | 5    | 241  | 64934 | 8    | 374  | 65032 | 9    | 442  | 65171 | 28</ |      |       |   |     |

| COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.    | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. |
|-------|------|------|-------|------|------|-------|------|------|---------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|
| 65309 | 8    | 391  | 65441 | 9    | 485  | 65571 | 28   | 853  | 65695   | 28   | 843  | 65822 | 28   | 849  | 65912 | 8    | 369  | 65976 | 8    | 395  | 66053 | 5    | 237  |
| 65310 | 8    | 391  | 65442 | 9    | 485  | 65572 | 28   | 853  | 65696   | 28   | 843  | 65823 | 28   | 849  | 65916 | 8    | 376  | 65976 | 15   | 637  | 66054 | 5    | 237  |
| 65311 | 8    | 391  | 65443 | 9    | 485  | 65574 | 28   | 853  | 65697   | 28   | 843  | 65824 | 28   | 849  | 65917 | 8    | 376  | 65977 | 8    | 395  | 66062 | 35   | 971  |
| 65312 | 8    | 391  | 65444 | 9    | 485  | 65575 | 28   | 853  | 65698   | 28   | 843  | 65825 | 28   | 849  | 65918 | 10   | 512  | 65977 | 15   | 637  | 66063 | 35   | 971  |
| 65313 | 8    | 391  | 65445 | 9    | 485  | 65576 | 28   | 853  | 65699   | 28   | 843  | 65826 | 28   | 850  | 65918 | 15   | 634  | 65978 | 8    | 395  | 66064 | 35   | 971  |
| 65314 | 8    | 391  | 65446 | 9    | 485  | 65577 | 28   | 854  | 65700   | 28   | 843  | 65827 | 28   | 850  | 65920 | 6    | 292  | 65978 | 15   | 637  | 66068 | 35   | 971  |
| 65315 | 8    | 392  | 65447 | 9    | 485  | 65578 | 28   | 852  | 65701   | 28   | 843  | 65828 | 28   | 850  | 65920 | 9    | 467  | 65979 | 8    | 395  | 66069 | 5    | 252  |
| 65316 | 8    | 392  | 65448 | 9    | 496  | 65579 | 28   | 852  | 65702   | 28   | 843  | 65829 | 28   | 850  | 65921 | 6    | 292  | 65979 | 15   | 637  | 66069 | 28   | 836  |
| 65317 | 8    | 392  | 65449 | 9    | 496  | 65580 | 28   | 852  | 65703   | 28   | 843  | 65831 | 28   | 850  | 65921 | 9    | 467  | 65980 | 8    | 395  | 66069 | 32   | 891  |
| 65318 | 8    | 392  | 65450 | 9    | 496  | 65581 | 28   | 852  | 65704   | 43   | 1349 | 65831 | 41   | 1327 | 65922 | 6    | 292  | 65980 | 15   | 637  | 66070 | 5    | 252  |
| 65319 | 8    | 392  | 65451 | 9    | 496  | 65582 | 28   | 852  | 65711   | 43   | 1357 | 65832 | 28   | 850  | 65922 | 9    | 467  | 65982 | 8    | 369  | 66070 | 28   | 835  |
| 65320 | 8    | 392  | 65452 | 9    | 490  | 65583 | 28   | 852  | 65713   | 28   | 841  | 65832 | 41   | 1326 | 65923 | 6    | 292  | 65983 | 8    | 369  | 66070 | 32   | 891  |
| 65321 | 8    | 392  | 65453 | 9    | 490  | 65584 | 28   | 852  | 65714   | 28   | 841  | 65833 | 28   | 850  | 65923 | 9    | 467  | 65984 | 8    | 369  | 66071 | 5    | 252  |
| 65322 | 8    | 392  | 65454 | 9    | 490  | 65585 | 28   | 856  | 65715   | 28   | 841  | 65833 | 41   | 1327 | 65924 | 6    | 292  | 65985 | 6    | 290  | 66071 | 28   | 836  |
| 65323 | 8    | 392  | 65455 | 9    | 490  | 65586 | 28   | 856  | 65717   | 28   | 841  | 65834 | 28   | 850  | 65924 | 9    | 467  | 65985 | 9    | 432  | 66071 | 32   | 891  |
| 65324 | 8    | 392  | 65456 | 9    | 490  | 65587 | 28   | 856  | 65718   | 28   | 841  | 65834 | 41   | 1326 | 65925 | 6    | 292  | 65985 | 15   | 637  | 66073 | 5    | 251  |
| 65325 | 8    | 392  | 65457 | 9    | 490  | 65588 | 28   | 855  | 65719   | 28   | 841  | 65835 | 28   | 850  | 65925 | 9    | 467  | 65986 | 6    | 290  | 66073 | 28   | 835  |
| 65326 | 8    | 392  | 65458 | 9    | 490  | 65589 | 28   | 855  | 65720   | 43   | 1349 | 65835 | 41   | 1327 | 65926 | 6    | 292  | 65986 | 9    | 432  | 66073 | 32   | 891  |
| 65327 | 8    | 392  | 65459 | 9    | 490  | 65590 | 28   | 855  | 65726   | 43   | 1349 | 65836 | 28   | 850  | 65926 | 9    | 467  | 65986 | 15   | 637  | 66074 | 5    | 251  |
| 65328 | 8    | 392  | 65460 | 9    | 490  | 65596 | 28   | 855  | 65727   | 28   | 843  | 65836 | 41   | 1326 | 65927 | 6    | 292  | 65987 | 6    | 290  | 66074 | 28   | 835  |
| 65329 | 8    | 392  | 65461 | 9    | 490  | 65597 | 28   | 855  | 65728   | 28   | 843  | 65837 | 28   | 850  | 65927 | 9    | 467  | 65987 | 9    | 432  | 66074 | 32   | 892  |
| 65330 | 8    | 392  | 65462 | 9    | 490  | 65598 | 28   | 855  | 65729   | 28   | 843  | 65837 | 41   | 1327 | 65928 | 6    | 292  | 65987 | 15   | 637  | 66075 | 5    | 251  |
| 65331 | 8    | 392  | 65463 | 9    | 490  | 65599 | 28   | 855  | 65730   | 28   | 843  | 65838 | 28   | 850  | 65928 | 9    | 467  | 65988 | 6    | 290  | 66075 | 28   | 835  |
| 65332 | 8    | 392  | 65464 | 9    | 490  | 65600 | 28   | 855  | 65731   | 28   | 843  | 65838 | 41   | 1326 | 65929 | 6    | 292  | 65988 | 9    | 432  | 66075 | 32   | 892  |
| 65333 | 8    | 394  | 65465 | 9    | 490  | 65601 | 28   | 855  | 65732   | 28   | 843  | 65839 | 28   | 850  | 65929 | 9    | 467  | 65988 | 15   | 637  | 66078 | 35   | 971  |
| 65334 | 8    | 394  | 65466 | 9    | 490  | 65602 | 28   | 854  | 65733   | 28   | 843  | 65839 | 41   | 1327 | 65930 | 6    | 292  | 65989 | 6    | 291  | 66105 | 35   | 972  |
| 65335 | 8    | 394  | 65467 | 9    | 490  | 65603 | 28   | 854  | 65737   | 9    | 485  | 65840 | 28   | 850  | 65930 | 9    | 467  | 65989 | 9    | 433  | 66112 | 35   | 972  |
| 65336 | 8    | 394  | 65468 | 9    | 490  | 65604 | 28   | 854  | 65739   | 28   | 842  | 65840 | 41   | 1326 | 65931 | 6    | 292  | 65989 | 15   | 637  | 66113 | 35   | 972  |
| 65337 | 8    | 394  | 65469 | 9    | 490  | 65605 | 28   | 847  | 65740   | 28   | 842  | 65841 | 28   | 850  | 65931 | 9    | 467  | 65990 | 6    | 291  | 66116 | 35   | 972  |
| 65338 | 8    | 394  | 65470 | 9    | 490  | 65606 | 28   | 847  | 65741   | 28   | 842  | 65841 | 41   | 1327 | 65932 | 6    | 292  | 65990 | 9    | 433  | 66117 | 35   | 972  |
| 65339 | 8    | 394  | 65471 | 9    | 490  | 65608 | 28   | 847  | 65742   | 28   | 842  | 65842 | 28   | 850  | 65932 | 9    | 467  | 65990 | 15   | 637  | 66118 | 35   | 971  |
| 65340 | 8    | 394  | 65472 | 9    | 490  | 65610 | 28   | 847  | 65743   | 28   | 842  | 65842 | 41   | 1326 | 65933 | 6    | 292  | 65991 | 6    | 291  | 66121 | 6    | 258  |
| 65341 | 8    | 394  | 65473 | 9    | 490  | 65612 | 28   | 847  | 65744   | 28   | 842  | 65843 | 28   | 850  | 65933 | 9    | 467  | 65991 | 9    | 433  | 66122 | 6    | 258  |
| 65342 | 8    | 394  | 65474 | 9    | 490  | 65613 | 28   | 847  | 65745   | 28   | 842  | 65843 | 41   | 1327 | 65934 | 6    | 292  | 65991 | 15   | 637  | 66123 | 6    | 258  |
| 65343 | 8    | 394  | 65475 | 9    | 490  | 65614 | 28   | 847  | 65746   | 28   | 844  | 65844 | 28   | 850  | 65934 | 9    | 467  | 65992 | 6    | 291  | 66124 | 6    | 258  |
| 65344 | 8    | 394  | 65476 | 9    | 490  | 65615 | 28   | 847  | 65747   | 28   | 844  | 65844 | 41   | 1326 | 65935 | 6    | 292  | 65992 | 9    | 433  | 66125 | 6    | 258  |
| 65345 | 8    | 394  | 65477 | 9    | 490  | 65616 | 28   | 847  | 65748   | 28   | 844  | 65845 | 28   | 850  | 65935 | 9    | 467  | 65992 | 15   | 637  | 66126 | 6    | 259  |
| 65346 | 8    | 394  | 65478 | 9    | 496  | 65617 | 28   | 847  | 65749   | 28   | 844  | 65845 | 41   | 1327 | 65936 | 6    | 292  | 65993 | 6    | 291  | 66127 | 6    | 259  |
| 65347 | 8    | 394  | 65479 | 28   | 836  | 65618 | 28   | 847  | 65750   | 28   | 844  | 65846 | 6    | 258  | 65936 | 9    | 470  | 65993 | 9    | 433  | 66128 | 6    | 259  |
| 65348 | 8    | 394  | 65480 | 28   | 836  | 65619 | 28   | 847  | 65751   | 28   | 844  | 65846 | 9    | 409  | 65937 | 6    | 292  | 65993 | 15   | 637  | 66129 | 6    | 260  |
| 65349 | 8    | 394  | 65481 | 28   | 836  | 65621 | 28   | 847  | 65752   | 28   | 844  | 65847 | 28   | 856  | 65937 | 9    | 470  | 65994 | 5    | 235  | 66130 | 6    | 260  |
| 65350 | 8    | 394  | 65482 | 28   | 836  | 65622 | 28   | 847  | 65753   | 28   | 844  | 65849 | 28   | 856  | 65938 | 6    | 292  | 65995 | 5    | 235  | 66131 | 6    | 260  |
| 65351 | 8    | 397  | 65483 | 15   | 638  | 65623 | 28   | 847  | 65755   | 28   | 844  | 65851 | 28   | 856  | 65938 | 9    | 470  | 65996 | 5    | 235  | 66132 | 6    | 260  |
| 65351 | 15   | 636  | 65483 | 28   | 836  | 65625 | 28   | 847  | 65761   | 28   | 844  | 65852 | 28   | 856  | 65939 | 6    | 292  | 65997 | 5    | 235  | 66133 | 6    | 260  |
| 65352 | 8    | 398  | 65484 | 28   | 837  | 65626 | 28   | 847  | 65762   | 28   | 844  | 65854 | 28   | 856  | 65939 | 9    | 470  | 65998 | 5    | 235  | 66134 | 6    | 261  |
| 65353 | 8    | 398  | 65485 | 28   | 837  | 65627 | 28   | 847  | 65763   | 28   | 844  | 65856 | 28   | 856  | 65940 | 6    | 292  | 66001 | 10   | 525  | 66135 | 6    | 261  |
| 65354 | 8    | 398  | 65486 | 28   | 837  | 65628 | 28   | 847  | 65765   | 28   | 844  | 65858 | 3    | 203  | 65940 | 9    | 470  | 66002 | 10   | 525  | 66136 | 6    | 261  |
| 65355 | 28   | 829  | 65487 | 28   | 837  | 65632 | 28   | 847  | 65766   | 22   | 768  | 65859 | 3    | 203  | 65941 | 6    | 292  | 66003 | 10   | 525  | 66137 | 6    | 261  |
| 65356 | 28   | 829  | 65488 | 28   | 837  | 65633 | 28   | 847  | 65767   | 28   | 854  | 65862 | 6    | 258  | 65941 | 9    | 470  | 66004 | 10   | 525  | 66138 | 6    | 261  |
| 65357 | 28   | 829  | 65489 | 28   | 837  | 65634 | 28   | 847  | 65768   | 28   | 845  | 65862 | 9    | 419  | 65942 | 6    | 292  | 66005 | 10   | 525  | 66139 | 6    | 261  |
| 65358 | 28   | 829  | 65491 | 28   | 838  | 65635 | 28   | 847  | 65770   | 28   | 846  | 65864 | 1    | 21   | 65942 | 9    | 470  | 66006 | 10   | 525  | 66140 | 6    | 261  |
| 65359 | 28   | 829  | 65492 | 28   | 838  | 65636 | 28   | 848  | 65771   | 28   | 846  | 65865 | 1    | 21   | 65943 | 6    | 293  | 66007 | 10   | 525  | 66141 | 6    | 261  |
| 65360 | 28   | 830  | 65493 | 28   | 838  | 65637 | 28   | 848  | 65772   | 28   | 850  | 65866 | 32   | 889  | 65943 | 9    | 470  | 66008 | 10   | 525  | 66142 | 6    | 262  |
| 65361 | 28   | 830  | 65494 | 28   | 838  | 65638 | 28   | 848  | 65772   | 41   | 1326 | 65867 | 32   | 889  | 65944 | 6    | 293  | 66009 | 10   | 525  | 66143 | 35   | 971  |
| 65362 | 28   | 830  | 65495 | 28   | 838  | 65639 | 28   | 848  | 65773   | 28   | 850  | 65868 | 32   | 889  | 65944 | 9    | 470  | 66010 | 10   | 525  | 66144 | 6    | 262  |
| 65363 | 28   | 830  | 65496 | 28   | 838  | 65641 | 28   | 848  | 65773   | 41   | 1327 | 65871 | 10   | 512  | 65945 | 6    | 293  | 66011 | 10   | 526  | 66145 | 6    | 262  |
| 65364 | 28   | 830  | 65497 | 28   | 838  | 65642 | 28   | 848  | 65774   | 28   | 850  | 65871 | 15   | 634  | 65945 | 9    | 470  | 66012 | 10   | 526  | 66146 | 6    | 262  |
| 65365 | 28   | 831  | 65498 | 28   | 838  | 65643 | 28   | 848  | 65774   | 41   | 1326 | 65872 | 10   | 512  | 65946 | 6    | 293  | 66013 | 10   | 526  | 66147 | 6    | 262  |
| 65367 | 28   | 831  | 65499 | 28   | 838  | 65644 | 28   | 848  | 65776   | 28   | 852  | 65872 | 15   | 634  | 65946 | 9    | 471  | 66014 | 10   | 526  | 66148 | 6    | 262  |
| 65368 | 28   | 831  | 65501 | 28   | 839  | 65645 | 28   | 848  | 65777   | 28   | 852  | 65873 | 10   | 512  | 65947 | 6    | 293  | 66015 | 10   | 526  | 66149 | 6    | 263  |
| 65369 | 10   | 520  | 65502 | 28   | 839  | 65647 | 28   | 848  | 65778</ |      |      |       |      |      |       |      |      |       |      |      |       |      |      |

| COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. |       |    |     |       |    |     |
|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|----|-----|-------|----|-----|
| 66206 | 10   | 525  | 66293 | 13   | 602  | 66342 | 13   | 604  | 66406 | 5    | 221  | 66524 | 6    | 271  | 66623 | 6    | 258  | 66720 | 6  | 275 | 66766 | 9  | 416 |
| 66207 | 10   | 525  | 66294 | 12   | 586  | 66343 | 12   | 589  | 66407 | 5    | 221  | 66525 | 5    | 227  | 66624 | 6    | 258  | 66721 | 6  | 275 | 66767 | 6  | 284 |
| 66208 | 10   | 525  | 66294 | 13   | 602  | 66343 | 13   | 604  | 66408 | 5    | 221  | 66526 | 5    | 228  | 66625 | 6    | 258  | 66722 | 6  | 275 | 66767 | 9  | 416 |
| 66209 | 10   | 525  | 66295 | 12   | 586  | 66344 | 12   | 589  | 66409 | 5    | 221  | 66527 | 5    | 228  | 66626 | 6    | 258  | 66723 | 6  | 275 | 66768 | 6  | 284 |
| 66210 | 10   | 525  | 66295 | 13   | 602  | 66344 | 13   | 604  | 66410 | 5    | 221  | 66529 | 5    | 227  | 66627 | 6    | 258  | 66724 | 6  | 275 | 66768 | 9  | 416 |
| 66211 | 10   | 525  | 66296 | 12   | 586  | 66345 | 12   | 589  | 66411 | 5    | 222  | 66530 | 5    | 227  | 66628 | 6    | 259  | 66725 | 6  | 275 | 66769 | 6  | 284 |
| 66212 | 10   | 525  | 66296 | 13   | 602  | 66345 | 13   | 604  | 66412 | 5    | 222  | 66531 | 5    | 227  | 66629 | 6    | 259  | 66726 | 6  | 275 | 66769 | 9  | 416 |
| 66213 | 10   | 525  | 66297 | 12   | 586  | 66346 | 12   | 589  | 66413 | 5    | 222  | 66532 | 5    | 227  | 66630 | 6    | 259  | 66727 | 6  | 275 | 66770 | 6  | 284 |
| 66214 | 10   | 525  | 66297 | 13   | 602  | 66346 | 13   | 604  | 66414 | 5    | 222  | 66533 | 6    | 271  | 66631 | 6    | 260  | 66728 | 6  | 275 | 66770 | 9  | 416 |
| 66215 | 10   | 525  | 66298 | 12   | 586  | 66347 | 12   | 589  | 66415 | 5    | 222  | 66534 | 6    | 271  | 66632 | 6    | 260  | 66729 | 6  | 283 | 66771 | 6  | 285 |
| 66216 | 10   | 525  | 66298 | 13   | 602  | 66347 | 13   | 604  | 66416 | 5    | 222  | 66535 | 6    | 271  | 66633 | 6    | 260  | 66729 | 9  | 408 | 66771 | 9  | 417 |
| 66217 | 10   | 525  | 66299 | 12   | 586  | 66348 | 12   | 589  | 66417 | 5    | 222  | 66536 | 6    | 271  | 66634 | 6    | 260  | 66729 | 15 | 636 | 66772 | 6  | 285 |
| 66218 | 10   | 525  | 66299 | 13   | 602  | 66348 | 13   | 604  | 66418 | 5    | 222  | 66537 | 6    | 271  | 66635 | 6    | 260  | 66730 | 6  | 283 | 66772 | 9  | 417 |
| 66219 | 10   | 525  | 66300 | 12   | 586  | 66349 | 12   | 589  | 66419 | 5    | 222  | 66538 | 5    | 227  | 66639 | 6    | 261  | 66730 | 9  | 408 | 66773 | 6  | 285 |
| 66220 | 10   | 525  | 66300 | 13   | 602  | 66349 | 13   | 604  | 66420 | 5    | 222  | 66540 | 5    | 246  | 66640 | 6    | 261  | 66730 | 15 | 636 | 66773 | 9  | 417 |
| 66221 | 10   | 525  | 66301 | 12   | 586  | 66350 | 12   | 589  | 66421 | 5    | 222  | 66541 | 5    | 246  | 66641 | 6    | 261  | 66731 | 6  | 255 | 66774 | 6  | 285 |
| 66222 | 10   | 525  | 66301 | 13   | 602  | 66350 | 13   | 604  | 66422 | 5    | 222  | 66543 | 6    | 272  | 66642 | 6    | 261  | 66731 | 9  | 410 | 66774 | 9  | 417 |
| 66223 | 10   | 525  | 66302 | 12   | 586  | 66351 | 12   | 589  | 66423 | 5    | 222  | 66544 | 6    | 272  | 66643 | 6    | 261  | 66732 | 9  | 410 | 66775 | 6  | 285 |
| 66224 | 10   | 527  | 66302 | 13   | 602  | 66351 | 13   | 604  | 66424 | 5    | 222  | 66545 | 6    | 272  | 66644 | 6    | 262  | 66733 | 6  | 281 | 66775 | 9  | 417 |
| 66225 | 10   | 527  | 66303 | 12   | 586  | 66352 | 12   | 589  | 66425 | 5    | 222  | 66546 | 6    | 273  | 66645 | 6    | 262  | 66733 | 9  | 406 | 66776 | 6  | 285 |
| 66226 | 10   | 527  | 66303 | 13   | 602  | 66352 | 13   | 604  | 66426 | 5    | 222  | 66547 | 6    | 273  | 66646 | 6    | 262  | 66734 | 6  | 281 | 66776 | 9  | 417 |
| 66227 | 10   | 527  | 66304 | 12   | 586  | 66353 | 12   | 589  | 66427 | 5    | 222  | 66548 | 6    | 273  | 66647 | 6    | 262  | 66734 | 9  | 406 | 66777 | 6  | 285 |
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| 66229 | 10   | 527  | 66305 | 12   | 586  | 66354 | 12   | 589  | 66437 | 5    | 223  | 66551 | 5    | 231  | 66649 | 6    | 263  | 66735 | 9  | 406 | 66778 | 6  | 285 |
| 66230 | 10   | 525  | 66305 | 13   | 602  | 66354 | 13   | 605  | 66438 | 5    | 223  | 66552 | 5    | 231  | 66650 | 6    | 263  | 66736 | 6  | 281 | 66778 | 9  | 417 |
| 66231 | 10   | 525  | 66306 | 12   | 586  | 66355 | 12   | 589  | 66439 | 5    | 223  | 66553 | 5    | 231  | 66651 | 6    | 263  | 66736 | 9  | 406 | 66779 | 6  | 285 |
| 66232 | 10   | 525  | 66306 | 13   | 602  | 66355 | 13   | 605  | 66440 | 5    | 223  | 66556 | 10   | 533  | 66652 | 6    | 263  | 66737 | 6  | 281 | 66779 | 9  | 417 |
| 66233 | 10   | 525  | 66307 | 12   | 587  | 66357 | 6    | 269  | 66441 | 5    | 223  | 66557 | 10   | 533  | 66653 | 6    | 264  | 66737 | 9  | 406 | 66780 | 6  | 285 |
| 66234 | 10   | 525  | 66307 | 13   | 602  | 66360 | 12   | 589  | 66442 | 5    | 223  | 66559 | 5    | 231  | 66654 | 6    | 264  | 66738 | 6  | 281 | 66780 | 9  | 417 |
| 66235 | 10   | 525  | 66308 | 12   | 587  | 66360 | 13   | 605  | 66443 | 5    | 223  | 66560 | 5    | 231  | 66655 | 6    | 264  | 66738 | 9  | 406 | 66781 | 6  | 285 |
| 66236 | 10   | 525  | 66308 | 13   | 602  | 66361 | 12   | 589  | 66444 | 5    | 224  | 66562 | 8    | 369  | 66656 | 6    | 264  | 66739 | 6  | 281 | 66781 | 9  | 417 |
| 66237 | 10   | 525  | 66309 | 12   | 587  | 66361 | 13   | 605  | 66445 | 5    | 224  | 66563 | 8    | 369  | 66657 | 6    | 264  | 66739 | 9  | 406 | 66782 | 6  | 285 |
| 66238 | 10   | 525  | 66309 | 13   | 602  | 66362 | 12   | 589  | 66446 | 5    | 224  | 66565 | 5    | 232  | 66658 | 6    | 265  | 66740 | 6  | 281 | 66782 | 9  | 417 |
| 66239 | 10   | 525  | 66310 | 12   | 587  | 66362 | 13   | 605  | 66447 | 5    | 224  | 66566 | 5    | 232  | 66659 | 6    | 266  | 66740 | 9  | 406 | 66783 | 6  | 286 |
| 66241 | 6    | 267  | 66310 | 13   | 602  | 66363 | 12   | 587  | 66448 | 5    | 221  | 66568 | 6    | 274  | 66660 | 6    | 266  | 66741 | 6  | 281 | 66783 | 9  | 417 |
| 66242 | 6    | 267  | 66311 | 12   | 587  | 66363 | 13   | 605  | 66449 | 5    | 221  | 66569 | 6    | 274  | 66661 | 6    | 266  | 66741 | 9  | 406 | 66784 | 6  | 286 |
| 66243 | 6    | 267  | 66311 | 13   | 602  | 66364 | 12   | 589  | 66456 | 5    | 224  | 66570 | 6    | 274  | 66662 | 6    | 266  | 66742 | 6  | 281 | 66784 | 9  | 417 |
| 66244 | 6    | 267  | 66312 | 12   | 587  | 66364 | 13   | 605  | 66457 | 5    | 224  | 66571 | 5    | 230  | 66663 | 6    | 266  | 66742 | 9  | 406 | 66785 | 6  | 286 |
| 66245 | 6    | 268  | 66312 | 13   | 602  | 66365 | 12   | 589  | 66458 | 5    | 224  | 66572 | 5    | 230  | 66664 | 6    | 266  | 66743 | 6  | 282 | 66785 | 9  | 417 |
| 66246 | 6    | 268  | 66313 | 12   | 587  | 66365 | 13   | 605  | 66459 | 5    | 224  | 66573 | 5    | 230  | 66665 | 6    | 266  | 66743 | 9  | 406 | 66786 | 6  | 286 |
| 66247 | 6    | 268  | 66313 | 13   | 602  | 66366 | 12   | 589  | 66460 | 5    | 224  | 66574 | 5    | 230  | 66666 | 6    | 266  | 66744 | 6  | 282 | 66786 | 9  | 417 |
| 66248 | 35   | 971  | 66314 | 12   | 587  | 66366 | 13   | 605  | 66461 | 8    | 352  | 66575 | 5    | 230  | 66667 | 6    | 267  | 66744 | 9  | 407 | 66787 | 6  | 286 |
| 66249 | 6    | 255  | 66314 | 13   | 602  | 66367 | 12   | 589  | 66462 | 5    | 224  | 66576 | 5    | 230  | 66668 | 6    | 267  | 66745 | 6  | 282 | 66787 | 9  | 417 |
| 66249 | 9    | 410  | 66315 | 12   | 587  | 66367 | 13   | 605  | 66463 | 5    | 224  | 66577 | 5    | 230  | 66669 | 6    | 267  | 66745 | 9  | 407 | 66788 | 6  | 286 |
| 66260 | 10   | 527  | 66315 | 13   | 602  | 66368 | 12   | 589  | 66464 | 5    | 224  | 66578 | 6    | 255  | 66670 | 6    | 267  | 66746 | 6  | 282 | 66788 | 9  | 418 |
| 66261 | 6    | 276  | 66316 | 12   | 587  | 66368 | 13   | 605  | 66465 | 5    | 224  | 66578 | 10   | 534  | 66671 | 6    | 267  | 66746 | 9  | 407 | 66788 | 15 | 636 |
| 66262 | 6    | 276  | 66316 | 13   | 602  | 66369 | 12   | 589  | 66466 | 8    | 352  | 66579 | 6    | 257  | 66672 | 6    | 267  | 66747 | 6  | 282 | 66789 | 6  | 286 |
| 66263 | 6    | 276  | 66317 | 12   | 587  | 66369 | 13   | 605  | 66472 | 5    | 224  | 66579 | 10   | 535  | 66673 | 6    | 267  | 66747 | 9  | 407 | 66789 | 9  | 418 |
| 66264 | 6    | 276  | 66317 | 13   | 602  | 66370 | 12   | 589  | 66473 | 5    | 224  | 66580 | 6    | 257  | 66674 | 6    | 267  | 66748 | 6  | 283 | 66789 | 15 | 636 |
| 66265 | 28   | 840  | 66318 | 12   | 587  | 66370 | 13   | 605  | 66474 | 5    | 225  | 66580 | 10   | 535  | 66675 | 6    | 267  | 66748 | 9  | 408 | 66790 | 6  | 286 |
| 66266 | 28   | 840  | 66318 | 13   | 603  | 66371 | 12   | 589  | 66475 | 5    | 225  | 66581 | 5    | 230  | 66676 | 6    | 267  | 66748 | 15 | 636 | 66790 | 9  | 418 |
| 66267 | 28   | 840  | 66319 | 12   | 587  | 66371 | 13   | 605  | 66476 | 5    | 225  | 66582 | 5    | 230  | 66677 | 6    | 267  | 66749 | 6  | 283 | 66790 | 15 | 636 |
| 66269 | 6    | 269  | 66319 | 13   | 603  | 66372 | 12   | 589  | 66477 | 5    | 225  | 66583 | 5    | 230  | 66678 | 6    | 267  | 66749 | 9  | 408 | 66791 | 6  | 286 |
| 66270 | 6    | 269  | 66320 | 12   | 587  | 66372 | 13   | 605  | 66478 | 5    | 225  | 66584 | 5    | 230  | 66679 | 6    | 267  | 66749 | 15 | 636 | 66791 | 9  | 418 |
| 66271 | 6    | 269  | 66320 | 13   | 603  | 66374 | 12   | 589  | 66479 | 5    | 225  | 66585 | 5    | 230  | 66680 | 6    | 268  | 66750 | 6  | 283 | 66791 | 15 | 636 |
| 66272 | 12   | 588  | 66321 | 12   | 587  | 66374 | 13   | 605  | 66480 | 5    | 225  | 66586 | 5    | 230  | 66681 | 6    | 268  | 66750 | 9  | 408 | 66792 | 6  | 286 |
| 66272 | 13   | 604  | 66321 | 13   | 603  | 66375 | 12   | 587  | 66481 | 5    | 225  | 66587 | 5    | 230  | 66682 | 6    | 268  | 66750 | 15 | 636 | 66792 | 9  | 418 |
| 66273 | 12   | 588  | 66322 | 12   | 587  | 66375 | 13   | 602  | 66482 | 5    | 225  | 66588 | 5    | 230  | 66683 | 6    | 268  | 66751 | 6  | 283 | 66792 | 15 | 636 |
| 66273 | 13   | 604  | 66322 | 13   | 603  | 66376 | 12   | 588  | 66483 | 5    | 225  | 66589 | 5    | 230  | 66684 | 6    | 268  | 66751 | 9  | 408 | 66793 | 6  | 286 |
| 66274 | 12   | 588  | 66324 | 12   | 587  | 66376 | 13   | 604  | 66484 | 5    | 225  | 66590 | 5    | 230  | 66685 | 6    | 268  | 66751 | 15 | 636 | 66793 | 9  | 418 |
| 66274 | 13   | 604  | 66324 | 13   | 603  | 66377 | 12   | 588  | 66485 | 5    | 225  | 66591 | 5    | 230  | 66686 | 6    | 268  | 66752 | 6  | 283 | 66793 | 15 | 636 |
| 6     |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |    |     |       |    |     |

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|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|-----|-----|-------|----|-----|
| 66809 | 6    | 288  | 66870 | 5    | 239  | 66979 | 6    | 270  | 67204 | 27   | 820  | 67376 | 8    | 362  | 67471 | 8    | 357  | 67568 | 9   | 438 | 67674 | 9  | 403 |
| 66809 | 9    | 430  | 66871 | 5    | 239  | 66980 | 6    | 270  | 67205 | 27   | 820  | 67377 | 8    | 362  | 67472 | 8    | 357  | 67569 | 9   | 438 | 67675 | 9  | 403 |
| 66810 | 6    | 288  | 66872 | 5    | 239  | 66981 | 6    | 270  | 67206 | 27   | 820  | 67378 | 8    | 362  | 67473 | 8    | 357  | 67570 | 9   | 438 | 67676 | 9  | 403 |
| 66810 | 9    | 430  | 66873 | 6    | 256  | 66982 | 6    | 270  | 67209 | 27   | 817  | 67379 | 8    | 362  | 67474 | 8    | 357  | 67571 | 9   | 438 | 67677 | 9  | 403 |
| 66811 | 6    | 288  | 66873 | 10   | 534  | 66983 | 6    | 270  | 67212 | 27   | 817  | 67380 | 8    | 362  | 67475 | 8    | 358  | 67572 | 9   | 438 | 67678 | 9  | 403 |
| 66811 | 9    | 430  | 66874 | 5    | 232  | 66984 | 6    | 270  | 67213 | 6    | 288  | 67381 | 8    | 362  | 67476 | 8    | 358  | 67573 | 9   | 438 | 67679 | 9  | 403 |
| 66812 | 6    | 288  | 66875 | 5    | 232  | 66985 | 6    | 270  | 67213 | 9    | 430  | 67382 | 8    | 362  | 67477 | 8    | 358  | 67574 | 9   | 438 | 67680 | 9  | 403 |
| 66812 | 9    | 430  | 66876 | 5    | 232  | 66986 | 6    | 270  | 67214 | 6    | 288  | 67383 | 8    | 362  | 67478 | 8    | 358  | 67575 | 9   | 438 | 67681 | 9  | 403 |
| 66813 | 6    | 288  | 66877 | 5    | 232  | 66987 | 6    | 270  | 67214 | 9    | 430  | 67384 | 8    | 362  | 67479 | 8    | 358  | 67576 | 9   | 438 | 67682 | 9  | 403 |
| 66813 | 9    | 430  | 66878 | 5    | 232  | 66988 | 6    | 270  | 67216 | 27   | 817  | 67385 | 8    | 362  | 67480 | 8    | 358  | 67577 | 9   | 438 | 67683 | 9  | 403 |
| 66814 | 6    | 288  | 66879 | 5    | 232  | 66989 | 6    | 270  | 67226 | 5    | 222  | 67386 | 8    | 362  | 67481 | 8    | 358  | 67578 | 9   | 438 | 67684 | 9  | 403 |
| 66814 | 9    | 430  | 66880 | 5    | 232  | 66990 | 5    | 250  | 67240 | 25   | 792  | 67387 | 8    | 362  | 67482 | 8    | 358  | 67579 | 9   | 438 | 67685 | 10 | 511 |
| 66815 | 6    | 289  | 66881 | 5    | 232  | 66992 | 5    | 250  | 67243 | 25   | 792  | 67388 | 8    | 362  | 67483 | 8    | 358  | 67580 | 9   | 438 | 67686 | 10 | 511 |
| 66815 | 9    | 431  | 66882 | 5    | 232  | 66993 | 5    | 250  | 67243 | 33   | 908  | 67389 | 8    | 362  | 67484 | 8    | 358  | 67581 | 9   | 438 | 67688 | 10 | 511 |
| 66816 | 6    | 289  | 66883 | 5    | 232  | 66994 | 5    | 250  | 67259 | 5    | 222  | 67390 | 8    | 362  | 67485 | 8    | 358  | 67582 | 9   | 438 | 67689 | 9  | 403 |
| 66816 | 9    | 431  | 66884 | 5    | 232  | 66995 | 5    | 247  | 67274 | 8    | 361  | 67391 | 8    | 362  | 67486 | 8    | 358  | 67583 | 9   | 438 | 67690 | 9  | 403 |
| 66817 | 6    | 289  | 66885 | 5    | 232  | 66996 | 5    | 247  | 67298 | 8    | 392  | 67392 | 8    | 362  | 67487 | 8    | 358  | 67584 | 9   | 438 | 67691 | 9  | 403 |
| 66817 | 9    | 431  | 66886 | 5    | 233  | 66997 | 5    | 249  | 67299 | 8    | 392  | 67393 | 8    | 362  | 67488 | 8    | 358  | 67585 | 9   | 438 | 67692 | 9  | 403 |
| 66818 | 6    | 289  | 66887 | 5    | 233  | 66999 | 5    | 250  | 67300 | 8    | 392  | 67394 | 8    | 362  | 67489 | 8    | 358  | 67586 | 9   | 438 | 67693 | 9  | 403 |
| 66818 | 9    | 431  | 66888 | 5    | 233  | 67000 | 27   | 818  | 67301 | 8    | 392  | 67395 | 8    | 362  | 67490 | 8    | 358  | 67587 | 9   | 438 | 67694 | 9  | 403 |
| 66819 | 6    | 289  | 66890 | 5    | 233  | 67001 | 27   | 818  | 67302 | 8    | 392  | 67396 | 8    | 362  | 67491 | 8    | 358  | 67588 | 9   | 438 | 67695 | 9  | 403 |
| 66819 | 9    | 431  | 66891 | 5    | 233  | 67002 | 27   | 818  | 67303 | 8    | 392  | 67397 | 8    | 363  | 67492 | 8    | 361  | 67595 | 9   | 439 | 67696 | 9  | 403 |
| 66820 | 6    | 289  | 66892 | 5    | 233  | 67004 | 27   | 818  | 67304 | 8    | 392  | 67398 | 8    | 363  | 67493 | 8    | 393  | 67596 | 9   | 439 | 67697 | 9  | 403 |
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| 66821 | 6    | 289  | 66898 | 5    | 234  | 67006 | 27   | 818  | 67306 | 8    | 392  | 67400 | 8    | 363  | 67495 | 8    | 393  | 67598 | 9   | 439 | 67699 | 9  | 403 |
| 66821 | 9    | 431  | 66899 | 5    | 234  | 67007 | 27   | 819  | 67307 | 8    | 392  | 67401 | 8    | 363  | 67496 | 8    | 393  | 67599 | 9   | 439 | 67705 | 9  | 414 |
| 66822 | 6    | 289  | 66900 | 5    | 234  | 67008 | 27   | 819  | 67308 | 8    | 361  | 67402 | 8    | 363  | 67497 | 8    | 393  | 67601 | 9   | 439 | 67706 | 9  | 414 |
| 66822 | 9    | 431  | 66901 | 5    | 234  | 67010 | 27   | 819  | 67309 | 8    | 361  | 67403 | 8    | 363  | 67498 | 8    | 393  | 67602 | 9   | 439 | 67707 | 9  | 414 |
| 66823 | 6    | 289  | 66902 | 5    | 234  | 67012 | 27   | 819  | 67310 | 8    | 360  | 67404 | 8    | 363  | 67499 | 8    | 361  | 67603 | 9   | 439 | 67708 | 9  | 414 |
| 66823 | 9    | 431  | 66907 | 5    | 234  | 67014 | 27   | 819  | 67311 | 8    | 360  | 67405 | 8    | 363  | 67500 | 9    | 494  | 67604 | 9   | 439 | 67709 | 9  | 414 |
| 66824 | 6    | 289  | 66908 | 5    | 234  | 67015 | 27   | 819  | 67312 | 8    | 360  | 67406 | 8    | 363  | 67501 | 9    | 494  | 67605 | 9   | 439 | 67710 | 9  | 414 |
| 66824 | 9    | 431  | 66909 | 5    | 234  | 67016 | 27   | 819  | 67313 | 8    | 360  | 67407 | 8    | 363  | 67502 | 9    | 494  | 67607 | 9   | 439 | 67711 | 9  | 414 |
| 66825 | 6    | 289  | 66910 | 5    | 234  | 67018 | 27   | 820  | 67314 | 8    | 360  | 67408 | 8    | 363  | 67503 | 9    | 494  | 67608 | 9   | 439 | 67712 | 9  | 414 |
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| 66826 | 6    | 289  | 66912 | 5    | 235  | 67020 | 27   | 820  | 67316 | 8    | 360  | 67410 | 8    | 363  | 67505 | 9    | 494  | 67612 | 9   | 439 | 67714 | 9  | 414 |
| 66826 | 9    | 431  | 66917 | 5    | 235  | 67021 | 27   | 820  | 67317 | 8    | 360  | 67411 | 8    | 363  | 67506 | 9    | 494  | 67614 | 8   | 392 | 67715 | 9  | 414 |
| 66827 | 6    | 289  | 66918 | 5    | 235  | 67022 | 27   | 820  | 67318 | 8    | 360  | 67412 | 8    | 363  | 67507 | 9    | 494  | 67615 | 8   | 392 | 67716 | 9  | 414 |
| 66827 | 9    | 431  | 66919 | 5    | 235  | 67023 | 27   | 820  | 67319 | 8    | 360  | 67413 | 8    | 363  | 67508 | 9    | 494  | 67616 | 8   | 392 | 67717 | 9  | 414 |
| 66828 | 6    | 289  | 66920 | 5    | 235  | 67024 | 27   | 820  | 67320 | 8    | 360  | 67414 | 8    | 363  | 67509 | 9    | 494  | 67617 | 8   | 392 | 67719 | 9  | 414 |
| 66828 | 9    | 431  | 66921 | 5    | 235  | 67025 | 27   | 820  | 67321 | 8    | 360  | 67415 | 8    | 363  | 67510 | 9    | 494  | 67618 | 8   | 392 | 67720 | 9  | 414 |
| 66829 | 6    | 289  | 66922 | 5    | 235  | 67026 | 27   | 820  | 67322 | 8    | 360  | 67416 | 8    | 363  | 67511 | 9    | 494  | 67620 | 9   | 413 | 67721 | 10 | 511 |
| 66829 | 9    | 431  | 66923 | 5    | 235  | 67027 | 27   | 820  | 67323 | 8    | 360  | 67417 | 8    | 363  | 67512 | 9    | 494  | 67621 | 9   | 413 | 67722 | 10 | 511 |
| 66830 | 6    | 289  | 66924 | 5    | 235  | 67029 | 27   | 820  | 67324 | 8    | 360  | 67418 | 8    | 363  | 67513 | 9    | 494  | 67622 | 9   | 413 | 67724 | 10 | 511 |
| 66830 | 9    | 431  | 66925 | 5    | 235  | 67052 | 24   | 777  | 67325 | 8    | 361  | 67419 | 8    | 363  | 67514 | 9    | 494  | 67623 | 9   | 413 | 67725 | 9  | 414 |
| 66831 | 6    | 289  | 66926 | 5    | 235  | 67053 | 5    | 234  | 67326 | 8    | 361  | 67420 | 8    | 363  | 67515 | 9    | 494  | 67624 | 9   | 413 | 67726 | 9  | 414 |
| 66831 | 9    | 431  | 66927 | 5    | 235  | 67054 | 5    | 234  | 67327 | 8    | 361  | 67422 | 8    | 361  | 67516 | 9    | 494  | 67625 | 9   | 413 | 67727 | 9  | 414 |
| 66832 | 6    | 289  | 66928 | 5    | 236  | 67064 | 5    | 234  | 67328 | 8    | 361  | 67423 | 8    | 356  | 67517 | 9    | 494  | 67626 | 9   | 413 | 67728 | 9  | 414 |
| 66832 | 9    | 431  | 66929 | 5    | 236  | 67090 | 5    | 236  | 67329 | 8    | 361  | 67424 | 8    | 356  | 67518 | 9    | 494  | 67627 | 9   | 413 | 67729 | 9  | 414 |
| 66833 | 6    | 289  | 66930 | 5    | 236  | 67102 | 5    | 232  | 67330 | 8    | 361  | 67425 | 8    | 356  | 67519 | 9    | 494  | 67628 | 6   | 270 | 67730 | 9  | 414 |
| 66833 | 9    | 431  | 66931 | 5    | 236  | 67103 | 5    | 232  | 67331 | 8    | 361  | 67426 | 8    | 356  | 67520 | 9    | 494  | 67629 | 8   | 391 | 67731 | 9  | 414 |
| 66834 | 6    | 289  | 66932 | 5    | 236  | 67104 | 5    | 232  | 67332 | 8    | 361  | 67427 | 8    | 356  | 67521 | 9    | 494  | 67630 | 8   | 391 | 67732 | 9  | 414 |
| 66834 | 9    | 431  | 66933 | 5    | 236  | 67105 | 5    | 232  | 67333 | 8    | 361  | 67428 | 8    | 356  | 67522 | 9    | 494  | 67631 | 8   | 391 | 67733 | 9  | 414 |
| 66835 | 6    | 289  | 66934 | 5    | 236  | 67106 | 5    | 232  | 67334 | 8    | 361  | 67429 | 8    | 356  | 67523 | 9    | 494  | 67632 | 8   | 391 | 67734 | 9  | 414 |
| 66835 | 9    | 431  | 66935 | 5    | 236  | 67107 | 5    | 232  | 67335 | 8    | 361  | 67430 | 8    | 356  | 67524 | 9    | 494  | 67633 | 8   | 391 | 67735 | 9  | 414 |
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| 66836 | 9    | 431  | 66937 | 5    | 236  | 67109 | 5    | 233  | 67337 | 8    | 361  | 67432 | 8    | 356  | 67526 | 9    | 494  | 67635 | 8   | 391 | 67737 | 9  | 414 |
| 66837 | 6    | 289  | 66938 | 5    | 237  | 67113 | 5    | 234  | 67338 | 8    | 361  | 67433 | 8    | 356  | 67527 | 9    | 494  | 67636 | 8   | 391 | 67738 | 9  | 414 |
| 66837 | 9    | 431  | 66939 | 5    | 237  | 67149 | 5    | 233  | 67339 | 8    | 361  | 67434 | 8    | 356  | 67528 | 9    | 494  | 67637 | 8   | 391 | 67739 | 9  | 414 |
| 66838 | 6    | 290  | 66941 | 6    | 276  | 67164 | 6    | 282  | 67340 | 8    | 361  | 67435 | 8    | 356  | 67529 | 9    | 494  | 67638 | 6   | 270 | 67740 | 9  | 414 |
| 66838 | 9    | 432  | 66942 | 6    | 276  | 67164 | 9    | 407  | 67341 | 8    | 361  | 67436 | 8    | 356  | 67530 | 9    | 494  | 67639 | 6   | 270 | 67750 | 9  | 414 |
| 66839 | 6    | 290  | 66943 | 6    | 276  | 67167 | 5    | 235  | 67342 | 8    | 361  | 67437 | 8    | 357  | 67531 | 9    | 494  | 67640 | 9   | 403 | 67751 | 9  | 414 |
| 66839 | 9    | 432  | 66944 | 6    | 276  | 67168 | 5    | 235  | 67343 | 8    | 361  | 67438 | 8    | 357  | 67532 | 9    | 494  | 67641 | 9</ |     |       |    |     |

| COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. |
|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|
| 67797 | 9    | 426  | 67967 | 8    | 331  | 68193 | 21   | 761  | 68301 | 19   | 711  | 68332 | 19   | 713  | 68369 | 19   | 712  | 68401 | 19   | 710  | 68416 | 19   | 715  |
| 67798 | 9    | 426  | 67968 | 8    | 332  | 68194 | 21   | 761  | 68301 | 19   | 712  | 68332 | 19   | 714  | 68369 | 19   | 713  | 68401 | 19   | 711  | 68417 | 19   | 709  |
| 67799 | 9    | 426  | 67970 | 8    | 332  | 68195 | 21   | 761  | 68301 | 19   | 714  | 68333 | 19   | 709  | 68369 | 19   | 714  | 68401 | 19   | 712  | 68417 | 19   | 711  |
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| 67801 | 8    | 394  | 67974 | 8    | 332  | 68198 | 21   | 761  | 68302 | 19   | 710  | 68333 | 19   | 711  | 68370 | 19   | 709  | 68401 | 19   | 714  | 68418 | 19   | 709  |
| 67802 | 8    | 394  | 67977 | 23   | 772  | 68200 | 21   | 761  | 68302 | 19   | 711  | 68333 | 19   | 712  | 68370 | 19   | 710  | 68401 | 19   | 715  | 68418 | 19   | 711  |
| 67803 | 8    | 394  | 67978 | 23   | 772  | 68204 | 21   | 761  | 68303 | 19   | 709  | 68333 | 19   | 713  | 68370 | 19   | 711  | 68402 | 19   | 709  | 68418 | 19   | 715  |
| 67804 | 8    | 394  | 67981 | 8    | 372  | 68205 | 21   | 761  | 68303 | 19   | 710  | 68333 | 19   | 714  | 68370 | 19   | 712  | 68402 | 19   | 710  | 68420 | 19   | 709  |
| 67805 | 9    | 427  | 67982 | 8    | 372  | 68206 | 21   | 761  | 68303 | 19   | 711  | 68333 | 19   | 715  | 68370 | 19   | 713  | 68402 | 19   | 711  | 68420 | 19   | 711  |
| 67806 | 9    | 427  | 67983 | 8    | 372  | 68207 | 21   | 761  | 68303 | 19   | 712  | 68334 | 19   | 709  | 68370 | 19   | 714  | 68402 | 19   | 712  | 68420 | 19   | 715  |
| 67807 | 9    | 427  | 67984 | 8    | 372  | 68209 | 21   | 761  | 68303 | 19   | 714  | 68334 | 19   | 710  | 68370 | 19   | 715  | 68402 | 19   | 713  | 68421 | 19   | 709  |
| 67808 | 9    | 427  | 68001 | 21   | 761  | 68220 | 21   | 761  | 68304 | 19   | 709  | 68334 | 19   | 712  | 68374 | 19   | 712  | 68402 | 19   | 714  | 68421 | 19   | 710  |
| 67809 | 9    | 427  | 68003 | 21   | 761  | 68221 | 21   | 761  | 68304 | 19   | 710  | 68334 | 19   | 714  | 68375 | 19   | 712  | 68402 | 19   | 715  | 68421 | 19   | 711  |
| 67810 | 9    | 427  | 68005 | 21   | 759  | 68223 | 21   | 761  | 68304 | 19   | 711  | 68335 | 19   | 709  | 68376 | 19   | 712  | 68403 | 19   | 709  | 68421 | 19   | 712  |
| 67811 | 9    | 427  | 68006 | 21   | 759  | 68224 | 21   | 761  | 68304 | 19   | 712  | 68335 | 19   | 710  | 68377 | 19   | 712  | 68403 | 19   | 710  | 68421 | 19   | 713  |
| 67812 | 9    | 427  | 68008 | 21   | 759  | 68225 | 21   | 761  | 68304 | 19   | 714  | 68335 | 19   | 711  | 68379 | 19   | 709  | 68403 | 19   | 711  | 68421 | 19   | 714  |
| 67813 | 9    | 427  | 68010 | 21   | 759  | 68227 | 21   | 759  | 68305 | 19   | 709  | 68335 | 19   | 712  | 68379 | 19   | 713  | 68403 | 19   | 712  | 68421 | 19   | 715  |
| 67814 | 9    | 427  | 68011 | 21   | 759  | 68228 | 21   | 759  | 68305 | 19   | 710  | 68335 | 19   | 713  | 68380 | 19   | 709  | 68403 | 19   | 713  | 68422 | 19   | 709  |
| 67815 | 9    | 427  | 68012 | 21   | 759  | 68229 | 19   | 709  | 68305 | 19   | 711  | 68335 | 19   | 714  | 68380 | 19   | 713  | 68403 | 19   | 714  | 68422 | 19   | 710  |
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| 67817 | 9    | 427  | 68014 | 21   | 759  | 68229 | 19   | 713  | 68305 | 19   | 714  | 68336 | 19   | 709  | 68381 | 19   | 710  | 68404 | 19   | 709  | 68422 | 19   | 713  |
| 67818 | 9    | 427  | 68015 | 21   | 759  | 68229 | 19   | 714  | 68306 | 19   | 709  | 68336 | 19   | 710  | 68381 | 19   | 713  | 68404 | 19   | 710  | 68423 | 19   | 709  |
| 67840 | 8    | 336  | 68016 | 21   | 759  | 68230 | 8    | 328  | 68306 | 19   | 710  | 68336 | 19   | 711  | 68382 | 19   | 709  | 68404 | 19   | 711  | 68423 | 19   | 710  |
| 67841 | 8    | 337  | 68017 | 21   | 760  | 68231 | 8    | 328  | 68306 | 19   | 711  | 68336 | 19   | 712  | 68382 | 19   | 713  | 68404 | 19   | 712  | 68423 | 19   | 711  |
| 67842 | 8    | 337  | 68018 | 21   | 760  | 68232 | 8    | 328  | 68306 | 19   | 712  | 68336 | 19   | 713  | 68383 | 19   | 709  | 68404 | 19   | 713  | 68423 | 19   | 712  |
| 67843 | 8    | 341  | 68041 | 21   | 759  | 68233 | 8    | 328  | 68312 | 19   | 709  | 68336 | 19   | 714  | 68383 | 19   | 710  | 68404 | 19   | 714  | 68423 | 19   | 713  |
| 67844 | 8    | 341  | 68042 | 21   | 759  | 68234 | 8    | 330  | 68312 | 19   | 710  | 68336 | 19   | 715  | 68383 | 19   | 713  | 68404 | 19   | 715  | 68423 | 19   | 714  |
| 67845 | 8    | 341  | 68043 | 21   | 759  | 68235 | 8    | 330  | 68312 | 19   | 711  | 68337 | 19   | 709  | 68384 | 19   | 709  | 68405 | 19   | 709  | 68423 | 19   | 715  |
| 67846 | 8    | 341  | 68044 | 21   | 759  | 68236 | 8    | 330  | 68312 | 19   | 713  | 68337 | 19   | 710  | 68384 | 19   | 710  | 68405 | 19   | 710  | 68424 | 19   | 709  |
| 67847 | 8    | 341  | 68045 | 21   | 759  | 68237 | 8    | 330  | 68312 | 19   | 715  | 68337 | 19   | 711  | 68384 | 19   | 713  | 68405 | 19   | 712  | 68424 | 19   | 710  |
| 67848 | 8    | 341  | 68046 | 21   | 759  | 68238 | 19   | 713  | 68313 | 19   | 710  | 68337 | 19   | 712  | 68385 | 19   | 709  | 68405 | 19   | 713  | 68424 | 19   | 711  |
| 67849 | 8    | 341  | 68047 | 21   | 759  | 68239 | 19   | 713  | 68313 | 19   | 711  | 68337 | 19   | 713  | 68385 | 19   | 710  | 68405 | 19   | 714  | 68424 | 19   | 713  |
| 67850 | 8    | 341  | 68048 | 21   | 759  | 68240 | 10   | 522  | 68314 | 19   | 709  | 68337 | 19   | 714  | 68385 | 19   | 713  | 68405 | 19   | 715  | 68425 | 19   | 709  |
| 67851 | 8    | 341  | 68049 | 21   | 759  | 68241 | 10   | 522  | 68314 | 19   | 710  | 68340 | 19   | 714  | 68386 | 19   | 709  | 68406 | 19   | 709  | 68425 | 19   | 710  |
| 67852 | 8    | 341  | 68050 | 21   | 759  | 68242 | 10   | 522  | 68314 | 19   | 711  | 68341 | 19   | 712  | 68386 | 19   | 710  | 68406 | 19   | 710  | 68425 | 19   | 711  |
| 67853 | 8    | 341  | 68051 | 21   | 759  | 68243 | 10   | 522  | 68314 | 19   | 713  | 68341 | 19   | 714  | 68386 | 19   | 713  | 68406 | 19   | 711  | 68425 | 19   | 712  |
| 67854 | 8    | 341  | 68052 | 21   | 762  | 68244 | 10   | 522  | 68314 | 19   | 715  | 68342 | 19   | 714  | 68389 | 19   | 710  | 68406 | 19   | 712  | 68425 | 19   | 713  |
| 67855 | 8    | 341  | 68053 | 21   | 762  | 68245 | 10   | 522  | 68315 | 19   | 709  | 68344 | 19   | 712  | 68389 | 19   | 711  | 68406 | 19   | 713  | 68425 | 19   | 714  |
| 67856 | 8    | 341  | 68054 | 21   | 759  | 68246 | 10   | 522  | 68315 | 19   | 710  | 68344 | 19   | 714  | 68389 | 19   | 713  | 68406 | 19   | 714  | 68425 | 19   | 715  |
| 67857 | 8    | 341  | 68055 | 21   | 759  | 68247 | 10   | 522  | 68315 | 19   | 711  | 68346 | 19   | 712  | 68390 | 19   | 711  | 68406 | 19   | 715  | 68426 | 19   | 709  |
| 67858 | 8    | 341  | 68056 | 21   | 759  | 68248 | 10   | 522  | 68315 | 19   | 713  | 68346 | 19   | 714  | 68390 | 19   | 714  | 68407 | 19   | 709  | 68426 | 19   | 710  |
| 67859 | 8    | 341  | 68058 | 21   | 764  | 68249 | 10   | 522  | 68315 | 19   | 715  | 68347 | 19   | 712  | 68391 | 19   | 710  | 68407 | 19   | 710  | 68426 | 19   | 711  |
| 67860 | 8    | 341  | 68059 | 21   | 764  | 68250 | 10   | 522  | 68316 | 19   | 709  | 68347 | 19   | 714  | 68391 | 19   | 711  | 68407 | 19   | 711  | 68426 | 19   | 712  |
| 67861 | 8    | 341  | 68060 | 21   | 762  | 68251 | 10   | 522  | 68316 | 19   | 710  | 68348 | 19   | 709  | 68391 | 19   | 712  | 68407 | 19   | 712  | 68426 | 19   | 713  |
| 67862 | 8    | 341  | 68092 | 21   | 760  | 68252 | 10   | 522  | 68316 | 19   | 711  | 68348 | 19   | 714  | 68392 | 19   | 709  | 68407 | 19   | 713  | 68426 | 19   | 714  |
| 67863 | 8    | 341  | 68110 | 21   | 760  | 68253 | 10   | 522  | 68316 | 19   | 713  | 68349 | 19   | 711  | 68392 | 19   | 710  | 68407 | 19   | 714  | 68426 | 19   | 715  |
| 67878 | 8    | 336  | 68111 | 21   | 760  | 68254 | 10   | 522  | 68316 | 19   | 715  | 68357 | 19   | 711  | 68392 | 19   | 711  | 68407 | 19   | 715  | 68427 | 19   | 709  |
| 67880 | 8    | 335  | 68118 | 21   | 758  | 68255 | 10   | 522  | 68317 | 19   | 709  | 68358 | 19   | 711  | 68392 | 19   | 712  | 68408 | 19   | 709  | 68427 | 19   | 710  |
| 67881 | 8    | 335  | 68126 | 8    | 375  | 68256 | 10   | 522  | 68317 | 19   | 710  | 68359 | 19   | 711  | 68392 | 19   | 713  | 68408 | 19   | 710  | 68427 | 19   | 711  |
| 67882 | 8    | 336  | 68127 | 8    | 376  | 68257 | 10   | 522  | 68317 | 19   | 711  | 68361 | 19   | 709  | 68392 | 19   | 714  | 68408 | 19   | 711  | 68427 | 19   | 712  |
| 67883 | 8    | 336  | 68128 | 21   | 758  | 68258 | 10   | 522  | 68317 | 19   | 712  | 68361 | 19   | 710  | 68392 | 19   | 715  | 68408 | 19   | 712  | 68427 | 19   | 713  |
| 67884 | 8    | 336  | 68129 | 21   | 758  | 68259 | 10   | 522  | 68317 | 19   | 713  | 68361 | 19   | 711  | 68393 | 19   | 710  | 68408 | 19   | 713  | 68427 | 19   | 714  |
| 67885 | 8    | 336  | 68130 | 21   | 758  | 68260 | 10   | 523  | 68318 | 19   | 709  | 68361 | 19   | 712  | 68393 | 19   | 711  | 68408 | 19   | 714  | 68427 | 19   | 715  |
| 67886 | 8    | 342  | 68131 | 21   | 758  | 68261 | 10   | 523  | 68318 | 19   | 710  | 68361 | 19   | 713  | 68393 | 19   | 713  | 68408 | 19   | 715  | 68428 | 19   | 709  |
| 67887 | 8    | 342  | 68132 | 21   | 758  | 68262 | 10   | 523  | 68318 | 19   | 711  | 68361 | 19   | 714  | 68394 | 19   | 709  | 68409 | 19   | 709  | 68428 | 19   | 710  |
| 67888 | 8    | 342  | 68133 | 21   | 758  | 68263 | 10   | 523  | 68318 | 19   | 712  | 68361 | 19   | 715  | 68394 | 19   | 710  | 68409 | 19   | 710  | 68428 | 19   | 711  |
| 67889 | 8    | 342  | 68134 | 21   | 758  | 68264 | 10   | 523  | 68318 | 19   | 713  | 68363 | 19   | 709  | 68394 | 19   | 711  | 68409 | 19   | 711  | 68428 | 19   | 712  |
| 67890 | 8    | 342  | 68135 | 21   | 758  | 68265 | 10   | 523  | 68319 | 19   | 709  | 68363 | 19   | 710  | 68394 | 19   | 712  | 68409 | 19   | 712  | 68428 | 19   | 713  |
| 67891 | 8    | 342  | 68136 | 21   | 758  | 68266 | 10   | 523  | 68319 | 19   | 710  | 68363 | 19   | 711  | 68394 | 19   | 713  | 68409 | 19   | 713  | 68428 | 19   | 714  |
| 67892 | 8    | 342  | 68137 | 21   | 758  | 68267 | 10   | 523  | 68319 | 19   | 711  | 68363 | 19   | 712  | 68394 | 19   | 714  | 68409 | 19   | 714  | 68428 | 19   | 715  |
| 67893 | 8    | 342  | 68138 | 2    |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |

| COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. |       |    |     |
|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|----|-----|
| 68441 | 19   | 710  | 68616 | 8    | 359  | 68713 | 9    | 485  | 68808 | 9    | 491  | 68902 | 8    | 393  | 68987 | 2    | 98   | 69418 | 3    | 205  | 69648 | 26 | 801 |
| 68441 | 19   | 712  | 68617 | 8    | 359  | 68714 | 9    | 485  | 68809 | 9    | 491  | 68903 | 8    | 393  | 68987 | 15   | 653  | 69419 | 3    | 205  | 69649 | 26 | 801 |
| 68441 | 19   | 714  | 68618 | 8    | 359  | 68715 | 9    | 485  | 68810 | 9    | 491  | 68904 | 8    | 393  | 68988 | 2    | 100  | 69420 | 3    | 205  | 69650 | 26 | 802 |
| 68442 | 19   | 710  | 68619 | 8    | 359  | 68716 | 9    | 485  | 68811 | 9    | 491  | 68905 | 8    | 393  | 68988 | 15   | 655  | 69421 | 3    | 205  | 69651 | 26 | 802 |
| 68442 | 19   | 712  | 68620 | 8    | 359  | 68717 | 9    | 485  | 68812 | 9    | 491  | 68906 | 8    | 393  | 68989 | 2    | 100  | 69422 | 3    | 205  | 69652 | 26 | 802 |
| 68442 | 19   | 714  | 68621 | 8    | 359  | 68718 | 9    | 485  | 68813 | 9    | 491  | 68907 | 8    | 393  | 68989 | 15   | 655  | 69423 | 3    | 206  | 69653 | 26 | 802 |
| 68443 | 19   | 710  | 68622 | 8    | 359  | 68719 | 9    | 485  | 68814 | 9    | 491  | 68908 | 8    | 393  | 68990 | 2    | 100  | 69425 | 3    | 204  | 69654 | 26 | 802 |
| 68443 | 19   | 712  | 68623 | 8    | 359  | 68720 | 9    | 485  | 68815 | 9    | 491  | 68909 | 8    | 393  | 68990 | 15   | 654  | 69426 | 3    | 204  | 69655 | 26 | 801 |
| 68443 | 19   | 714  | 68624 | 8    | 359  | 68721 | 9    | 485  | 68817 | 9    | 490  | 68910 | 8    | 393  | 68991 | 2    | 100  | 69427 | 3    | 204  | 69659 | 26 | 802 |
| 68444 | 19   | 710  | 68625 | 8    | 359  | 68722 | 9    | 485  | 68818 | 9    | 490  | 68911 | 8    | 393  | 68991 | 15   | 654  | 69429 | 3    | 204  | 69660 | 26 | 802 |
| 68444 | 19   | 712  | 68626 | 8    | 359  | 68723 | 9    | 485  | 68819 | 9    | 490  | 68912 | 8    | 393  | 68992 | 2    | 101  | 69430 | 3    | 204  | 69661 | 26 | 802 |
| 68444 | 19   | 714  | 68627 | 8    | 359  | 68724 | 9    | 485  | 68820 | 9    | 490  | 68914 | 8    | 394  | 68993 | 2    | 101  | 69433 | 3    | 198  | 69662 | 26 | 803 |
| 68445 | 19   | 714  | 68628 | 8    | 359  | 68725 | 9    | 485  | 68821 | 9    | 490  | 68915 | 8    | 394  | 69000 | 17   | 690  | 69434 | 3    | 198  | 69663 | 26 | 803 |
| 68446 | 19   | 709  | 68629 | 8    | 359  | 68726 | 9    | 485  | 68822 | 9    | 490  | 68916 | 8    | 394  | 69001 | 17   | 690  | 69435 | 7    | 310  | 69664 | 26 | 803 |
| 68446 | 19   | 714  | 68630 | 8    | 359  | 68727 | 9    | 485  | 68823 | 9    | 490  | 68917 | 8    | 394  | 69002 | 17   | 690  | 69437 | 7    | 310  | 69665 | 26 | 803 |
| 68447 | 19   | 709  | 68631 | 8    | 359  | 68728 | 9    | 485  | 68824 | 9    | 490  | 68918 | 8    | 394  | 69004 | 2    | 86   | 69439 | 7    | 310  | 69666 | 26 | 803 |
| 68447 | 19   | 714  | 68632 | 8    | 359  | 68729 | 9    | 485  | 68825 | 9    | 490  | 68919 | 8    | 394  | 69021 | 17   | 690  | 69446 | 8    | 333  | 69667 | 26 | 803 |
| 68453 | 8    | 333  | 68633 | 8    | 359  | 68730 | 9    | 485  | 68826 | 9    | 490  | 68920 | 8    | 394  | 69050 | 17   | 690  | 69447 | 8    | 333  | 69669 | 26 | 803 |
| 68454 | 8    | 333  | 68634 | 8    | 359  | 68731 | 9    | 485  | 68827 | 9    | 490  | 68921 | 8    | 394  | 69051 | 17   | 690  | 69450 | 8    | 338  | 69672 | 26 | 804 |
| 68456 | 8    | 338  | 68635 | 8    | 359  | 68732 | 9    | 485  | 68828 | 9    | 490  | 68922 | 8    | 394  | 69052 | 17   | 690  | 69451 | 8    | 338  | 69673 | 26 | 804 |
| 68457 | 8    | 338  | 68636 | 8    | 359  | 68733 | 9    | 485  | 68830 | 9    | 494  | 68923 | 8    | 394  | 69072 | 17   | 690  | 69452 | 8    | 333  | 69674 | 26 | 804 |
| 68463 | 8    | 343  | 68637 | 8    | 359  | 68734 | 9    | 485  | 68831 | 9    | 494  | 68924 | 8    | 394  | 69101 | 8    | 320  | 69453 | 8    | 333  | 69675 | 26 | 804 |
| 68464 | 8    | 343  | 68638 | 8    | 359  | 68735 | 9    | 485  | 68832 | 9    | 494  | 68925 | 8    | 394  | 69102 | 8    | 320  | 69454 | 8    | 338  | 69676 | 26 | 804 |
| 68465 | 8    | 343  | 68639 | 8    | 359  | 68736 | 9    | 485  | 68833 | 9    | 494  | 68926 | 8    | 394  | 69103 | 8    | 320  | 69455 | 8    | 338  | 69677 | 26 | 801 |
| 68467 | 8    | 333  | 68640 | 8    | 359  | 68737 | 9    | 485  | 68834 | 9    | 494  | 68927 | 8    | 358  | 69105 | 8    | 320  | 69465 | 21   | 756  | 69678 | 26 | 809 |
| 68469 | 8    | 338  | 68641 | 8    | 359  | 68738 | 9    | 485  | 68835 | 9    | 494  | 68928 | 8    | 358  | 69106 | 8    | 320  | 69481 | 24   | 776  | 69679 | 26 | 808 |
| 68470 | 8    | 338  | 68642 | 8    | 359  | 68739 | 9    | 485  | 68836 | 9    | 494  | 68929 | 8    | 358  | 69107 | 8    | 320  | 69489 | 8    | 382  | 69680 | 26 | 808 |
| 68471 | 8    | 343  | 68643 | 8    | 359  | 68740 | 9    | 485  | 68837 | 9    | 494  | 68930 | 8    | 358  | 69125 | 5    | 247  | 69500 | 20   | 739  | 69681 | 26 | 805 |
| 68472 | 8    | 343  | 68644 | 8    | 359  | 68741 | 9    | 485  | 68838 | 9    | 494  | 68931 | 8    | 358  | 69126 | 5    | 247  | 69501 | 25   | 787  | 69682 | 26 | 805 |
| 68473 | 8    | 343  | 68645 | 8    | 359  | 68742 | 9    | 485  | 68839 | 9    | 494  | 68932 | 8    | 358  | 69128 | 5    | 249  | 69502 | 25   | 787  | 69684 | 26 | 805 |
| 68475 | 3    | 196  | 68646 | 8    | 359  | 68744 | 9    | 491  | 68840 | 9    | 494  | 68933 | 8    | 358  | 69129 | 5    | 249  | 69504 | 5    | 252  | 69685 | 26 | 805 |
| 68476 | 3    | 196  | 68647 | 8    | 359  | 68745 | 9    | 491  | 68841 | 9    | 494  | 68934 | 8    | 358  | 69143 | 5    | 247  | 69505 | 20   | 739  | 69686 | 26 | 805 |
| 68477 | 3    | 197  | 68648 | 8    | 359  | 68746 | 9    | 491  | 68842 | 9    | 494  | 68935 | 8    | 358  | 69144 | 5    | 247  | 69506 | 20   | 739  | 69687 | 26 | 805 |
| 68478 | 3    | 197  | 68649 | 8    | 359  | 68747 | 9    | 491  | 68843 | 9    | 494  | 68936 | 8    | 358  | 69159 | 5    | 249  | 69507 | 20   | 739  | 69688 | 26 | 805 |
| 68487 | 5    | 242  | 68650 | 8    | 359  | 68748 | 9    | 491  | 68844 | 9    | 494  | 68937 | 8    | 358  | 69168 | 5    | 249  | 69520 | 26   | 810  | 69689 | 26 | 805 |
| 68488 | 5    | 242  | 68651 | 8    | 359  | 68749 | 9    | 491  | 68845 | 9    | 494  | 68938 | 8    | 358  | 69185 | 8    | 384  | 69521 | 26   | 810  | 69691 | 26 | 805 |
| 68489 | 5    | 244  | 68652 | 8    | 359  | 68750 | 9    | 491  | 68846 | 9    | 494  | 68939 | 8    | 358  | 69200 | 10   | 543  | 69525 | 32   | 890  | 69692 | 26 | 805 |
| 68495 | 5    | 247  | 68653 | 8    | 359  | 68751 | 9    | 491  | 68847 | 9    | 494  | 68940 | 8    | 358  | 69201 | 10   | 543  | 69526 | 32   | 890  | 69693 | 26 | 805 |
| 68496 | 5    | 247  | 68654 | 8    | 360  | 68752 | 9    | 491  | 68848 | 9    | 494  | 68941 | 8    | 358  | 69239 | 8    | 342  | 69529 | 32   | 890  | 69694 | 26 | 806 |
| 68497 | 5    | 249  | 68655 | 8    | 360  | 68753 | 9    | 491  | 68849 | 9    | 494  | 68942 | 8    | 359  | 69248 | 8    | 333  | 69530 | 32   | 889  | 69695 | 26 | 806 |
| 68502 | 8    | 337  | 68656 | 8    | 360  | 68754 | 9    | 491  | 68850 | 9    | 494  | 68943 | 8    | 359  | 69249 | 8    | 333  | 69531 | 32   | 889  | 69700 | 26 | 809 |
| 68505 | 8    | 337  | 68657 | 8    | 360  | 68755 | 9    | 491  | 68851 | 9    | 494  | 68944 | 8    | 359  | 69250 | 8    | 333  | 69532 | 32   | 889  | 69701 | 26 | 809 |
| 68514 | 8    | 337  | 68658 | 8    | 360  | 68756 | 9    | 491  | 68852 | 9    | 494  | 68945 | 8    | 359  | 69251 | 8    | 333  | 69533 | 32   | 889  | 69702 | 26 | 809 |
| 68522 | 8    | 337  | 68659 | 8    | 360  | 68757 | 9    | 491  | 68853 | 9    | 494  | 68946 | 8    | 359  | 69255 | 8    | 342  | 69534 | 32   | 888  | 69704 | 26 | 806 |
| 68525 | 8    | 321  | 68660 | 8    | 360  | 68758 | 9    | 491  | 68854 | 9    | 494  | 68947 | 8    | 359  | 69256 | 8    | 342  | 69535 | 32   | 888  | 69705 | 26 | 806 |
| 68526 | 8    | 321  | 68661 | 8    | 360  | 68759 | 9    | 491  | 68855 | 9    | 494  | 68948 | 8    | 359  | 69257 | 8    | 342  | 69536 | 2    | 110  | 69706 | 26 | 806 |
| 68527 | 8    | 321  | 68662 | 8    | 360  | 68760 | 9    | 491  | 68856 | 9    | 494  | 68949 | 8    | 359  | 69262 | 8    | 337  | 69537 | 2    | 105  | 69707 | 26 | 806 |
| 68528 | 8    | 321  | 68663 | 8    | 360  | 68761 | 9    | 491  | 68857 | 9    | 494  | 68950 | 8    | 359  | 69263 | 8    | 337  | 69538 | 2    | 102  | 69708 | 26 | 806 |
| 68530 | 26   | 802  | 68664 | 8    | 360  | 68762 | 9    | 491  | 68858 | 9    | 494  | 68951 | 8    | 359  | 69265 | 8    | 337  | 69538 | 15   | 656  | 69711 | 26 | 807 |
| 68532 | 26   | 802  | 68665 | 8    | 360  | 68763 | 9    | 491  | 68859 | 9    | 494  | 68952 | 8    | 359  | 69272 | 8    | 382  | 69548 | 17   | 693  | 69712 | 26 | 807 |
| 68533 | 26   | 802  | 68666 | 8    | 360  | 68764 | 9    | 491  | 68860 | 9    | 494  | 68954 | 2    | 121  | 69277 | 8    | 337  | 69548 | 18   | 700  | 69713 | 26 | 807 |
| 68534 | 26   | 802  | 68667 | 8    | 360  | 68765 | 9    | 491  | 68861 | 9    | 494  | 68955 | 2    | 121  | 69278 | 8    | 337  | 69556 | 8    | 337  | 69714 | 5  | 247 |
| 68540 | 3    | 197  | 68668 | 8    | 360  | 68766 | 9    | 491  | 68862 | 9    | 494  | 68956 | 2    | 122  | 69279 | 8    | 337  | 69570 | 24   | 777  | 69715 | 26 | 807 |
| 68541 | 3    | 198  | 68669 | 8    | 360  | 68767 | 9    | 491  | 68863 | 9    | 494  | 68957 | 2    | 122  | 69280 | 8    | 337  | 69571 | 24   | 777  | 69716 | 26 | 807 |
| 68542 | 3    | 197  | 68670 | 8    | 360  | 68768 | 9    | 491  | 68864 | 9    | 494  | 68958 | 2    | 122  | 69310 | 8    | 333  | 69572 | 24   | 777  | 69717 | 26 | 807 |
| 68555 | 3    | 200  | 68671 | 8    | 360  | 68769 | 9    | 491  | 68865 | 9    | 494  | 68959 | 2    | 122  | 69311 | 8    | 333  | 69574 | 24   | 777  | 69718 | 5  | 247 |
| 68556 | 3    | 200  | 68672 | 8    | 360  | 68770 | 9    | 491  | 68866 | 9    | 494  | 68960 | 2    | 57   | 69312 | 8    | 333  | 69575 | 24   | 777  | 69719 | 26 | 808 |
| 68557 | 3    | 200  | 68673 | 8    | 360  | 68771 | 9    | 491  | 68867 | 9    | 494  | 68961 | 2    | 57   | 69313 | 8    | 333  | 69580 | 24   | 777  | 69723 | 5  | 247 |
| 68558 | 3    | 201  | 68674 | 8    | 360  | 68772 | 9    | 491  | 68868 | 9    | 494  | 68962 | 2    | 68   | 69320 | 8    | 343  | 69581 | 24   | 777  | 69726 | 26 | 810 |
| 68559 | 3    | 201  | 68675 | 8    | 360  | 68773 | 9    | 491  | 68869 | 9    | 494  | 68963 | 2    | 68   | 69321 | 8    | 343  | 69582 | 24   | 777  | 69727 | 5  | 247 |
| 68560 | 3    | 201  | 68676 | 8    | 360  | 68774 | 9    | 491  | 68870 | 9    | 494  | 68964 | 2    | 76   | 69322 | 8    | 343  | 69583 | 24   | 777  | 69728 | 26 | 810 |
| 68568 | 8    | 348  | 68677 | 8    | 360  |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |    |     |



| COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. |       |    |      |       |    |      |
|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|----|------|-------|----|------|
| 69765 | 26   | 811  | 70148 | 37   | 1051 | 70242 | 37   | 1056 | 70336 | 37   | 1099 | 70430 | 37   | 1155 | 70524 | 37   | 1174 | 70618 | 37 | 1052 | 70712 | 37 | 1053 |
| 69766 | 26   | 812  | 70149 | 37   | 1051 | 70243 | 37   | 1056 | 70337 | 37   | 1099 | 70431 | 37   | 1155 | 70525 | 37   | 1174 | 70619 | 37 | 1052 | 70713 | 37 | 1053 |
| 69767 | 26   | 812  | 70150 | 37   | 1051 | 70244 | 37   | 1056 | 70338 | 37   | 1099 | 70432 | 37   | 1155 | 70526 | 37   | 1174 | 70620 | 37 | 1052 | 70714 | 37 | 1053 |
| 69770 | 26   | 812  | 70151 | 37   | 1051 | 70245 | 37   | 1056 | 70339 | 37   | 1099 | 70433 | 37   | 1155 | 70527 | 37   | 1175 | 70621 | 37 | 1052 | 70715 | 37 | 1053 |
| 69771 | 26   | 812  | 70152 | 37   | 1051 | 70246 | 37   | 1056 | 70340 | 37   | 1099 | 70434 | 37   | 1155 | 70528 | 37   | 1151 | 70622 | 37 | 1052 | 70716 | 37 | 1053 |
| 69772 | 26   | 812  | 70153 | 37   | 1051 | 70247 | 37   | 1056 | 70341 | 37   | 1099 | 70435 | 37   | 1155 | 70529 | 37   | 1151 | 70623 | 37 | 1052 | 70717 | 37 | 1053 |
| 69774 | 2    | 74   | 70154 | 37   | 1051 | 70248 | 37   | 1063 | 70342 | 37   | 1099 | 70436 | 37   | 1155 | 70530 | 37   | 1046 | 70624 | 37 | 1052 | 70718 | 37 | 1053 |
| 69775 | 2    | 74   | 70155 | 37   | 1051 | 70249 | 37   | 1063 | 70343 | 37   | 1099 | 70437 | 37   | 1155 | 70531 | 37   | 1046 | 70625 | 37 | 1052 | 70719 | 37 | 1053 |
| 69784 | 2    | 74   | 70156 | 37   | 1051 | 70250 | 37   | 1063 | 70344 | 37   | 1099 | 70438 | 37   | 1155 | 70532 | 37   | 1046 | 70626 | 37 | 1052 | 70720 | 37 | 1053 |
| 69795 | 8    | 333  | 70157 | 37   | 1051 | 70251 | 37   | 1063 | 70345 | 37   | 1105 | 70439 | 37   | 1155 | 70533 | 37   | 1046 | 70627 | 37 | 1052 | 70721 | 37 | 1053 |
| 69796 | 8    | 337  | 70158 | 37   | 1051 | 70252 | 37   | 1063 | 70346 | 37   | 1105 | 70440 | 37   | 1155 | 70534 | 37   | 1046 | 70628 | 37 | 1052 | 70722 | 37 | 1053 |
| 69858 | 5    | 242  | 70159 | 37   | 1051 | 70253 | 37   | 1063 | 70347 | 37   | 1105 | 70441 | 37   | 1155 | 70535 | 37   | 1046 | 70629 | 37 | 1052 | 70723 | 37 | 1053 |
| 69859 | 5    | 242  | 70160 | 37   | 1051 | 70254 | 37   | 1063 | 70348 | 37   | 1105 | 70442 | 37   | 1155 | 70536 | 37   | 1046 | 70630 | 37 | 1052 | 70724 | 37 | 1053 |
| 69860 | 5    | 244  | 70161 | 37   | 1051 | 70255 | 37   | 1063 | 70349 | 37   | 1105 | 70443 | 37   | 1155 | 70537 | 37   | 1046 | 70631 | 37 | 1052 | 70725 | 37 | 1054 |
| 69864 | 8    | 316  | 70162 | 37   | 1051 | 70256 | 37   | 1063 | 70350 | 37   | 1105 | 70444 | 37   | 1155 | 70538 | 37   | 1046 | 70632 | 37 | 1052 | 70726 | 37 | 1054 |
| 69865 | 8    | 316  | 70163 | 37   | 1051 | 70257 | 37   | 1063 | 70351 | 37   | 1105 | 70445 | 37   | 1155 | 70539 | 37   | 1047 | 70633 | 37 | 1052 | 70727 | 37 | 1054 |
| 69866 | 8    | 318  | 70164 | 37   | 1051 | 70258 | 37   | 1063 | 70352 | 37   | 1105 | 70446 | 37   | 1155 | 70540 | 37   | 1049 | 70634 | 37 | 1052 | 70728 | 37 | 1054 |
| 69867 | 8    | 318  | 70165 | 37   | 1051 | 70259 | 37   | 1080 | 70353 | 37   | 1110 | 70447 | 37   | 1154 | 70541 | 37   | 1049 | 70635 | 37 | 1052 | 70729 | 37 | 1054 |
| 69868 | 8    | 316  | 70166 | 37   | 1051 | 70260 | 37   | 1080 | 70354 | 37   | 1110 | 70448 | 37   | 1154 | 70542 | 37   | 1049 | 70636 | 37 | 1052 | 70730 | 37 | 1054 |
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| 69872 | 8    | 323  | 70170 | 37   | 1053 | 70264 | 37   | 1080 | 70358 | 37   | 1110 | 70452 | 37   | 1157 | 70546 | 37   | 1151 | 70640 | 37 | 1052 | 70734 | 37 | 1054 |
| 69873 | 8    | 323  | 70171 | 37   | 1053 | 70265 | 37   | 1080 | 70359 | 37   | 1110 | 70453 | 37   | 1157 | 70547 | 37   | 1050 | 70641 | 37 | 1052 | 70735 | 37 | 1054 |
| 69874 | 8    | 326  | 70172 | 37   | 1053 | 70266 | 37   | 1080 | 70360 | 37   | 1110 | 70454 | 37   | 1157 | 70548 | 37   | 1050 | 70642 | 37 | 1052 | 70736 | 37 | 1054 |
| 69953 | 14   | 621  | 70173 | 37   | 1053 | 70267 | 37   | 1080 | 70361 | 37   | 1110 | 70455 | 37   | 1157 | 70549 | 37   | 1051 | 70643 | 37 | 1052 | 70737 | 37 | 1054 |
| 69953 | 25   | 791  | 70174 | 37   | 1053 | 70268 | 37   | 1080 | 70362 | 37   | 1110 | 70456 | 37   | 1157 | 70550 | 37   | 1051 | 70644 | 37 | 1052 | 70738 | 37 | 1054 |
| 69954 | 14   | 621  | 70175 | 37   | 1053 | 70269 | 37   | 1080 | 70363 | 37   | 1110 | 70457 | 37   | 1157 | 70551 | 37   | 1051 | 70645 | 37 | 1052 | 70739 | 37 | 1054 |
| 69954 | 25   | 791  | 70176 | 37   | 1053 | 70270 | 37   | 1080 | 70364 | 37   | 1110 | 70458 | 37   | 1157 | 70552 | 37   | 1051 | 70646 | 37 | 1052 | 70740 | 37 | 1054 |
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| 69967 | 24   | 777  | 70183 | 37   | 1053 | 70277 | 37   | 1080 | 70371 | 37   | 1109 | 70465 | 37   | 1157 | 70559 | 37   | 1051 | 70653 | 37 | 1052 | 70747 | 37 | 1054 |
| 69968 | 24   | 777  | 70184 | 37   | 1053 | 70278 | 37   | 1080 | 70372 | 37   | 1103 | 70466 | 37   | 1157 | 70560 | 37   | 1051 | 70654 | 37 | 1052 | 70748 | 37 | 1054 |
| 69970 | 24   | 777  | 70185 | 37   | 1053 | 70279 | 37   | 1080 | 70373 | 37   | 1109 | 70467 | 37   | 1157 | 70561 | 37   | 1051 | 70655 | 37 | 1052 | 70749 | 37 | 1054 |
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| 69990 | 8    | 324  | 70192 | 37   | 1053 | 70286 | 37   | 1067 | 70380 | 37   | 1109 | 70474 | 37   | 1161 | 70568 | 37   | 1051 | 70662 | 37 | 1052 | 70756 | 37 | 1054 |
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| 70105 | 37   | 1046 | 70199 | 37   | 1053 | 70293 | 37   | 1067 | 70387 | 37   | 1109 | 70481 | 37   | 1162 | 70575 | 37   | 1051 | 70669 | 37 | 1052 | 70763 | 37 | 1054 |
| 70106 | 37   | 1046 | 70200 | 37   | 1053 | 70294 | 37   | 1067 | 70388 | 37   | 1109 | 70482 | 37   | 1145 | 70576 | 37   | 1051 | 70670 | 37 | 1052 | 70764 | 37 | 1054 |
| 70107 | 37   | 1046 | 70201 | 37   | 1053 | 70295 | 37   | 1067 | 70389 | 37   | 1114 | 70483 | 37   | 1145 | 70577 | 37   | 1051 | 70671 | 37 | 1052 | 70765 | 37 | 1054 |
| 70108 | 37   | 1046 | 70202 | 37   | 1053 | 70296 | 37   | 1067 | 70390 | 37   | 1114 | 70484 | 37   | 1107 | 70578 | 37   | 1051 | 70672 | 37 | 1052 | 70766 | 37 | 1054 |
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| COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. |
|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|
| 72374 | 37   | 1134 | 72488 | 37   | 1164 | 72585 | 37   | 1158 | 72681 | 37   | 1069 | 72783 | 37   | 1169 | 72901 | 37   | 1184 | 73021 | 33   | 907  | 73133 | 33   | 912  | 73251 | 33   | 918  |
| 72375 | 37   | 1134 | 72489 | 37   | 1164 | 72586 | 37   | 1158 | 72682 | 37   | 1069 | 72784 | 37   | 1169 | 72902 | 37   | 1184 | 73022 | 33   | 914  | 73134 | 33   | 912  | 73252 | 33   | 918  |
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| 72397 | 37   | 1109 | 72493 | 40   | 1284 | 72590 | 37   | 1159 | 72686 | 37   | 1069 | 72788 | 37   | 1169 | 72906 | 37   | 1184 | 73029 | 33   | 908  | 73146 | 37   | 1046 | 73256 | 33   | 913  |
| 72398 | 37   | 1114 | 72494 | 40   | 1281 | 72591 | 37   | 1159 | 72688 | 37   | 1069 | 72789 | 37   | 1169 | 72907 | 37   | 1184 | 73030 | 33   | 908  | 73147 | 33   | 912  | 73257 | 33   | 913  |
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| 72401 | 37   | 1103 | 72497 | 40   | 1280 | 72594 | 37   | 1159 | 72693 | 37   | 1069 | 72792 | 37   | 1169 | 72910 | 37   | 1147 | 73037 | 33   | 914  | 73150 | 33   | 912  | 73260 | 33   | 913  |
| 72402 | 37   | 1103 | 72498 | 40   | 1282 | 72595 | 37   | 1159 | 72694 | 37   | 1069 | 72793 | 37   | 1169 | 72911 | 37   | 1080 | 73040 | 33   | 905  | 73151 | 37   | 1046 | 73261 | 33   | 913  |
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| 72404 | 37   | 1103 | 72500 | 40   | 1282 | 72597 | 37   | 1159 | 72697 | 37   | 1069 | 72795 | 37   | 1175 | 72913 | 37   | 1056 | 73042 | 33   | 908  | 73155 | 33   | 914  | 73263 | 33   | 913  |
| 72405 | 37   | 1103 | 72501 | 40   | 1284 | 72598 | 37   | 1159 | 72698 | 37   | 1069 | 72796 | 37   | 1176 | 72914 | 37   | 1083 | 73043 | 33   | 910  | 73156 | 33   | 914  | 73264 | 33   | 913  |
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| 72407 | 37   | 1109 | 72503 | 40   | 1279 | 72600 | 37   | 1159 | 72700 | 37   | 1053 | 72798 | 37   | 1176 | 72916 | 37   | 1083 | 73045 | 33   | 910  | 73158 | 33   | 914  | 73266 | 33   | 913  |
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| 72417 | 37   | 1103 | 72513 | 37   | 1047 | 72611 | 37   | 1069 | 72710 | 37   | 1069 | 72831 | 37   | 1185 | 72928 | 37   | 1089 | 73055 | 33   | 910  | 73176 | 33   | 913  | 73276 | 33   | 913  |
| 72418 | 37   | 1142 | 72514 | 37   | 1047 | 72612 | 37   | 1079 | 72711 | 37   | 1069 | 72832 | 37   | 1185 | 72929 | 37   | 1089 | 73060 | 33   | 910  | 73177 | 33   | 913  | 73277 | 33   | 913  |
| 72419 | 37   | 1142 | 72515 | 37   | 1047 | 72613 | 37   | 1069 | 72712 | 37   | 1069 | 72833 | 37   | 1185 | 72930 | 37   | 1089 | 73061 | 33   | 910  | 73178 | 33   | 913  | 73278 | 33   | 913  |
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| 72421 | 37   | 1142 | 72517 | 37   | 1047 | 72615 | 37   | 1069 | 72714 | 37   | 1069 | 72836 | 37   | 1185 | 72932 | 37   | 1089 | 73063 | 33   | 910  | 73180 | 33   | 913  | 73280 | 33   | 913  |
| 72422 | 37   | 1142 | 72518 | 37   | 1047 | 72616 | 37   | 1069 | 72716 | 37   | 1069 | 72837 | 37   | 1185 | 72933 | 37   | 1089 | 73064 | 33   | 910  | 73181 | 33   | 913  | 73281 | 33   | 913  |
| 72423 | 37   | 1142 | 72519 | 37   | 1047 | 72617 | 37   | 1069 | 72717 | 37   | 1069 | 72838 | 37   | 1185 | 72934 | 37   | 1089 | 73065 | 33   | 910  | 73182 | 33   | 913  | 73282 | 33   | 913  |
| 72424 | 37   | 1142 | 72520 | 37   | 1047 | 72618 | 37   | 1069 | 72719 | 37   | 1069 | 72839 | 37   | 1185 | 72935 | 37   | 1089 | 73066 | 33   | 910  | 73183 | 33   | 913  | 73283 | 33   | 913  |
| 72425 | 37   | 1142 | 72521 | 37   | 1047 | 72619 | 37   | 1069 | 72721 | 37   | 1069 | 72840 | 37   | 1185 | 72936 | 37   | 1054 | 73067 | 33   | 910  | 73184 | 33   | 913  | 73284 | 33   | 913  |
| 72426 | 37   | 1142 | 72524 | 37   | 1076 | 72620 | 37   | 1069 | 72723 | 37   | 1066 | 72841 | 37   | 1186 | 72937 | 37   | 1054 | 73068 | 33   | 910  | 73185 | 33   | 913  | 73285 | 33   | 913  |
| 72427 | 37   | 1142 | 72525 | 37   | 1076 | 72621 | 37   | 1069 | 72724 | 37   | 1066 | 72842 | 37   | 1186 | 72939 | 37   | 1080 | 73069 | 33   | 910  | 73186 | 33   | 913  | 73286 | 33   | 913  |
| 72428 | 37   | 1142 | 72526 | 37   | 1167 | 72622 | 37   | 1154 | 72725 | 37   | 1066 | 72843 | 37   | 1186 | 72940 | 37   | 1080 | 73070 | 33   | 910  | 73187 | 33   | 913  | 73287 | 33   | 913  |
| 72429 | 37   | 1142 | 72527 | 40   | 1287 | 72623 | 37   | 1069 | 72726 | 37   | 1066 | 72844 | 37   | 1186 | 72941 | 37   | 1080 | 73071 | 33   | 910  | 73188 | 33   | 913  | 73288 | 33   | 913  |
| 72430 | 37   | 1142 | 72528 | 40   | 1285 | 72624 | 37   | 1054 | 72727 | 37   | 1066 | 72845 | 37   | 1186 | 72942 | 37   | 1080 | 73072 | 33   | 910  | 73189 | 33   | 912  | 73289 | 33   | 913  |
| 72431 | 37   | 1142 | 72529 | 40   | 1285 | 72625 | 37   | 1069 | 72728 | 37   | 1066 | 72846 | 37   | 1186 | 72943 | 37   | 1080 | 73073 | 33   | 910  | 73190 | 33   | 912  | 73290 | 33   | 913  |
| 72432 | 37   | 1142 | 72530 | 40   | 1285 | 72626 | 37   | 1069 | 72729 | 37   | 1066 | 72847 | 37   | 1186 | 72944 | 37   | 1080 | 73074 | 33   | 910  | 73191 | 33   | 912  | 73291 | 33   | 913  |
| 72433 | 37   | 1142 | 72531 | 40   | 1286 | 72627 | 37   | 1069 | 72730 | 37   | 1066 | 72848 | 37   | 1186 | 72945 | 37   | 1080 | 73075 | 33   | 910  | 73192 | 33   | 912  | 73292 | 33   | 913  |
| 72434 | 37   | 1142 | 72532 | 40   | 1275 | 72628 | 37   | 1069 | 72731 | 37   | 1066 | 72849 | 37   | 1186 | 72946 | 37   | 1080 | 73076 | 33   | 910  | 73193 | 33   | 912  | 73293 | 33   | 913  |
| 72435 | 37   | 1142 | 72533 | 40   | 1275 | 72629 | 37   | 1113 | 72732 | 37   | 1066 | 72850 | 37   | 1186 | 72947 | 37   | 1080 | 73077 | 33   | 910  | 73199 | 33   | 912  | 73294 | 33   | 913  |
| 72436 | 37   | 1142 | 72534 | 40   | 1287 | 72630 | 37   | 1113 | 72733 | 37   | 1066 | 72851 | 37   | 1185 | 72948 | 37   | 1080 | 73078 | 33   | 910  | 73200 | 33   | 912  | 73295 | 33   | 913  |
| 72437 | 37   | 1142 | 72535 | 40   | 1287 | 72631 | 37   | 1069 | 72734 | 37   | 1066 | 72852 | 37   | 1185 | 72949 | 37   | 1080 | 73079 | 33   | 910  | 73201 | 33   | 912  | 73296 | 33   | 913  |
| 72438 | 37   | 1142 | 72536 | 40   | 1287 | 72632 | 37   | 1054 | 72735 | 37   | 1066 | 72853 | 37   | 1185 | 72950 | 37   | 1080 | 73080 | 33   | 910  | 73202 | 33   | 912  | 73297 | 33   | 913  |
| 72439 | 37   | 1142 | 72537 | 40   | 1286 | 72633 | 37   | 1069 | 72736 | 37   | 1066 | 72854 | 37   | 1185 | 72951 | 37   | 1069 | 73081 | 33   | 910  | 73203 | 33   | 913  | 73298 | 33   | 913  |
| 72440 | 37   | 1142 | 72538 | 40   | 1286 | 72634 | 37   | 1069 | 72737 | 37   | 1066 | 72855 | 37   | 1185 | 72953 | 37   | 1105 | 73082 | 33   | 910  | 73204 | 33   | 913  | 73299 | 33   | 913  |
| 72441 | 37   | 1142 | 72540 | 40   | 1280 | 72635 | 37   | 1069 | 72738 | 37   | 1066 | 72856 | 37   | 1184 | 72954 | 37   | 1070 | 73083 | 33   | 910  | 73205 | 33   | 913  | 73300 | 33   | 913  |
| 72442 | 37   | 1142 | 72541 | 37   | 1076 | 72636 | 37   | 1069 | 72739 | 37   | 1167 | 72857 | 37   | 1184 | 72955 | 37   | 1080 | 73086 | 33   | 910  | 73206 | 33   | 913  | 73301 | 33   | 913  |
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| COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. |
|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|
| 73253 | 33   | 918  | 73360 | 33   | 911  | 73471 | 37   | 1069 | 73602 | 37   | 1071 | 73705 | 37   | 1093 | 73805 | 37   | 1154 | 73908 | 37   | 1151 | 74004 | 37   | 1073 |
| 73254 | 33   | 918  | 73361 | 33   | 911  | 73472 | 37   | 1078 | 73603 | 37   | 1071 | 73706 | 37   | 1093 | 73806 | 37   | 1154 | 73909 | 37   | 1082 | 74005 | 37   | 1073 |
| 73256 | 33   | 918  | 73363 | 33   | 911  | 73473 | 37   | 1175 | 73604 | 37   | 1071 | 73707 | 37   | 1093 | 73807 | 37   | 1154 | 73910 | 37   | 1082 | 74006 | 37   | 1073 |
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| 73264 | 33   | 922  | 73369 | 33   | 916  | 73481 | 33   | 922  | 73609 | 37   | 1071 | 73713 | 37   | 1108 | 73813 | 37   | 1154 | 73915 | 37   | 1082 | 74011 | 37   | 1073 |
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| COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. |       |    |      |
|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|----|------|
| 74098 | 37   | 1075 | 74192 | 37   | 1087 | 74294 | 37   | 1101 | 74428 | 37   | 1091 | 74522 | 37   | 1100 | 74616 | 37   | 1063 | 74732 | 37   | 1084 | 74847 | 37 | 1067 |
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| 74144 | 37   | 1072 | 74243 | 37   | 1165 | 74369 | 39   | 1268 | 74474 | 37   | 1099 | 74568 | 37   | 1106 | 74700 | 5    | 229  | 74783 | 37   | 1126 | 74897 | 37 | 1178 |
| 74145 | 37   | 1072 | 74244 | 37   | 1150 | 74372 | 38   | 1243 | 74475 | 37   | 1099 | 74569 | 37   | 1106 | 74700 | 33   | 942  | 74784 | 37   | 1126 | 74898 | 37 | 1181 |
| 74146 | 37   | 1072 | 74245 | 37   | 1165 | 74372 | 39   | 1268 | 74476 | 37   | 1099 | 74570 | 37   | 1106 | 74701 | 5    | 229  | 74785 | 38   | 1243 | 74899 | 37 | 1181 |
| 74147 | 37   | 1072 | 74246 | 37   | 1150 | 74375 | 38   | 1243 | 74477 | 37   | 1099 | 74571 | 37   | 1106 | 74701 | 33   | 942  | 74785 | 39   | 1268 | 74900 | 33 | 916  |
| 74148 | 37   | 1072 | 74247 | 37   | 1160 | 74375 | 39   | 1268 | 74478 | 37   | 1099 | 74572 | 37   | 1106 | 74702 | 5    | 229  | 74786 | 37   | 1106 | 74901 | 33 | 916  |
| 74149 | 37   | 1072 | 74248 | 37   | 1160 | 74378 | 37   | 1075 | 74479 | 37   | 1099 | 74573 | 37   | 1106 | 74702 | 33   | 942  | 74787 | 37   | 1106 | 74902 | 33 | 916  |
| 74150 | 37   | 1072 | 74249 | 37   | 1150 | 74379 | 37   | 1075 | 74480 | 37   | 1099 | 74574 | 37   | 1106 | 74703 | 5    | 229  | 74788 | 37   | 1106 | 74903 | 33 | 916  |
| 74151 | 37   | 1072 | 74250 | 37   | 1146 | 74380 | 37   | 1179 | 74481 | 37   | 1099 | 74575 | 37   | 1106 | 74703 | 33   | 942  | 74789 | 37   | 1106 | 74904 | 33 | 916  |
| 74152 | 37   | 1072 | 74251 | 37   | 1146 | 74381 | 37   | 1179 | 74482 | 37   | 1099 | 74576 | 37   | 1106 | 74704 | 5    | 229  | 74790 | 37   | 1106 | 74905 | 33 | 916  |
| 74153 | 37   | 1072 | 74252 | 37   | 1150 | 74382 | 37   | 1178 | 74483 | 37   | 1099 | 74577 | 37   | 1106 | 74704 | 33   | 942  | 74791 | 37   | 1106 | 74906 | 33 | 916  |
| 74154 | 37   | 1072 | 74253 | 37   | 1150 | 74383 | 37   | 1178 | 74484 | 37   | 1099 | 74578 | 37   | 1110 | 74705 | 5    | 229  | 74792 | 37   | 1106 | 74907 | 33 | 916  |
| 74155 | 37   | 1072 | 74254 | 37   | 1150 | 74384 | 37   | 1180 | 74485 | 37   | 1099 | 74579 |      |      |       |      |      |       |      |      |       |    |      |

| COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. |       |    |      |
|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|----|------|
| 74969 | 33   | 928  | 75053 | 33   | 917  | 75138 | 33   | 942  | 75222 | 33   | 930  | 75326 | 37   | 1056 | 75428 | 37   | 1063 | 75527 | 37   | 1083 | 75624 | 37 | 1095 |
| 74970 | 33   | 928  | 75054 | 33   | 917  | 75140 | 33   | 923  | 75223 | 33   | 930  | 75327 | 37   | 1056 | 75429 | 37   | 1063 | 75528 | 37   | 1083 | 75625 | 37 | 1095 |
| 74971 | 33   | 928  | 75055 | 33   | 917  | 75141 | 33   | 923  | 75224 | 33   | 930  | 75328 | 37   | 1056 | 75430 | 37   | 1063 | 75529 | 37   | 1083 | 75626 | 37 | 1095 |
| 74972 | 33   | 928  | 75056 | 33   | 917  | 75142 | 33   | 923  | 75225 | 33   | 930  | 75329 | 37   | 1056 | 75431 | 37   | 1063 | 75530 | 37   | 1083 | 75627 | 37 | 1095 |
| 74973 | 33   | 928  | 75057 | 33   | 917  | 75143 | 33   | 923  | 75226 | 33   | 930  | 75330 | 37   | 1056 | 75432 | 37   | 1063 | 75531 | 37   | 1083 | 75628 | 37 | 1095 |
| 74974 | 33   | 928  | 75058 | 33   | 917  | 75144 | 33   | 923  | 75227 | 33   | 930  | 75331 | 37   | 1056 | 75433 | 37   | 1063 | 75532 | 37   | 1083 | 75629 | 37 | 1095 |
| 74975 | 33   | 928  | 75059 | 33   | 917  | 75145 | 33   | 923  | 75228 | 37   | 1089 | 75332 | 37   | 1056 | 75434 | 37   | 1063 | 75533 | 37   | 1083 | 75630 | 37 | 1095 |
| 74976 | 33   | 928  | 75060 | 33   | 917  | 75146 | 33   | 923  | 75229 | 37   | 1089 | 75333 | 37   | 1056 | 75435 | 37   | 1063 | 75534 | 37   | 1083 | 75631 | 37 | 1095 |
| 74977 | 33   | 928  | 75061 | 33   | 917  | 75147 | 33   | 923  | 75230 | 37   | 1089 | 75334 | 37   | 1056 | 75436 | 37   | 1063 | 75537 | 37   | 1089 | 75632 | 37 | 1095 |
| 74978 | 33   | 928  | 75062 | 33   | 917  | 75148 | 33   | 923  | 75231 | 37   | 1089 | 75335 | 37   | 1056 | 75437 | 37   | 1063 | 75538 | 37   | 1089 | 75633 | 37 | 1095 |
| 74979 | 33   | 928  | 75063 | 5    | 223  | 75149 | 33   | 923  | 75232 | 37   | 1089 | 75336 | 37   | 1056 | 75438 | 37   | 1063 | 75539 | 37   | 1089 | 75634 | 37 | 1095 |
| 74980 | 33   | 928  | 75063 | 33   | 939  | 75150 | 33   | 923  | 75233 | 37   | 1089 | 75337 | 37   | 1056 | 75439 | 37   | 1063 | 75540 | 37   | 1089 | 75635 | 37 | 1095 |
| 74981 | 33   | 928  | 75064 | 5    | 223  | 75151 | 33   | 923  | 75234 | 37   | 1089 | 75338 | 37   | 1056 | 75440 | 37   | 1063 | 75541 | 37   | 1089 | 75636 | 37 | 1095 |
| 74982 | 33   | 928  | 75064 | 33   | 939  | 75152 | 33   | 923  | 75235 | 37   | 1089 | 75339 | 37   | 1056 | 75441 | 37   | 1063 | 75542 | 37   | 1089 | 75637 | 37 | 1095 |
| 74983 | 33   | 928  | 75065 | 5    | 223  | 75153 | 33   | 923  | 75236 | 37   | 1089 | 75340 | 37   | 1056 | 75442 | 37   | 1063 | 75543 | 37   | 1089 | 75638 | 37 | 1095 |
| 74984 | 5    | 229  | 75065 | 33   | 939  | 75154 | 33   | 923  | 75237 | 37   | 1089 | 75341 | 37   | 1056 | 75443 | 37   | 1063 | 75544 | 37   | 1089 | 75639 | 37 | 1095 |
| 74984 | 33   | 942  | 75066 | 5    | 223  | 75155 | 33   | 923  | 75238 | 37   | 1089 | 75342 | 37   | 1056 | 75444 | 37   | 1063 | 75545 | 37   | 1089 | 75640 | 37 | 1095 |
| 74985 | 5    | 229  | 75066 | 33   | 939  | 75156 | 5    | 238  | 75239 | 37   | 1089 | 75343 | 37   | 1056 | 75445 | 37   | 1063 | 75546 | 37   | 1089 | 75641 | 37 | 1095 |
| 74985 | 33   | 942  | 75067 | 5    | 223  | 75156 | 33   | 945  | 75240 | 37   | 1051 | 75344 | 37   | 1056 | 75446 | 37   | 1063 | 75547 | 37   | 1089 | 75642 | 37 | 1095 |
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| 74987 | 5    | 229  | 75068 | 33   | 939  | 75158 | 5    | 238  | 75243 | 37   | 1051 | 75347 | 37   | 1056 | 75451 | 37   | 1064 | 75550 | 37   | 1089 | 75645 | 37 | 1095 |
| 74987 | 33   | 942  | 75069 | 5    | 223  | 75158 | 33   | 945  | 75244 | 37   | 1051 | 75348 | 37   | 1056 | 75452 | 37   | 1064 | 75551 | 37   | 1091 | 75646 | 37 | 1095 |
| 74988 | 5    | 229  | 75069 | 33   | 939  | 75159 | 5    | 238  | 75245 | 37   | 1051 | 75349 | 37   | 1056 | 75453 | 37   | 1064 | 75552 | 37   | 1091 | 75647 | 37 | 1095 |
| 74988 | 33   | 942  | 75070 | 33   | 917  | 75159 | 33   | 945  | 75246 | 37   | 1051 | 75350 | 37   | 1056 | 75454 | 37   | 1064 | 75553 | 37   | 1088 | 75648 | 37 | 1095 |
| 74989 | 5    | 229  | 75071 | 33   | 917  | 75160 | 33   | 923  | 75247 | 37   | 1051 | 75351 | 37   | 1056 | 75455 | 37   | 1064 | 75554 | 37   | 1088 | 75649 | 37 | 1095 |
| 74989 | 33   | 942  | 75072 | 33   | 917  | 75161 | 33   | 923  | 75248 | 37   | 1051 | 75352 | 37   | 1056 | 75456 | 37   | 1064 | 75555 | 37   | 1088 | 75650 | 37 | 1095 |
| 74990 | 33   | 906  | 75073 | 33   | 917  | 75162 | 33   | 923  | 75249 | 37   | 1051 | 75353 | 37   | 1056 | 75457 | 37   | 1064 | 75556 | 37   | 1088 | 75651 | 37 | 1095 |
| 74991 | 33   | 928  | 75074 | 33   | 917  | 75163 | 33   | 923  | 75250 | 37   | 1051 | 75354 | 37   | 1056 | 75458 | 37   | 1064 | 75557 | 37   | 1088 | 75652 | 37 | 1095 |
| 74992 | 33   | 928  | 75075 | 33   | 917  | 75164 | 33   | 923  | 75251 | 37   | 1051 | 75355 | 37   | 1056 | 75459 | 37   | 1064 | 75558 | 37   | 1088 | 75653 | 37 | 1095 |
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| 74994 | 33   | 928  | 75077 | 33   | 917  | 75166 | 33   | 923  | 75253 | 37   | 1051 | 75357 | 37   | 1056 | 75461 | 37   | 1064 | 75560 | 37   | 1088 | 75655 | 37 | 1095 |
| 74995 | 33   | 928  | 75078 | 33   | 917  | 75167 | 33   | 923  | 75254 | 37   | 1051 | 75364 | 37   | 1053 | 75465 | 37   | 1071 | 75562 | 37   | 1091 | 75656 | 37 | 1095 |
| 74996 | 38   | 1243 | 75079 | 33   | 917  | 75168 | 33   | 923  | 75255 | 37   | 1051 | 75365 | 37   | 1057 | 75466 | 37   | 1071 | 75563 | 37   | 1091 | 75657 | 37 | 1095 |
| 74996 | 39   | 1268 | 75080 | 33   | 917  | 75169 | 33   | 923  | 75256 | 37   | 1051 | 75366 | 37   | 1057 | 75467 | 37   | 1071 | 75564 | 37   | 1091 | 75658 | 37 | 1095 |
| 74997 | 33   | 922  | 75081 | 5    | 223  | 75170 | 33   | 923  | 75257 | 37   | 1051 | 75367 | 37   | 1057 | 75468 | 37   | 1071 | 75565 | 37   | 1091 | 75659 | 37 | 1095 |
| 74998 | 33   | 922  | 75081 | 33   | 939  | 75171 | 33   | 923  | 75258 | 37   | 1051 | 75368 | 37   | 1057 | 75469 | 37   | 1056 | 75566 | 37   | 1091 | 75660 | 37 | 1095 |
| 74999 | 37   | 1053 | 75083 | 5    | 227  | 75172 | 5    | 234  | 75259 | 37   | 1051 | 75369 | 37   | 1057 | 75470 | 37   | 1056 | 75567 | 37   | 1091 | 75661 | 37 | 1095 |
| 75000 | 33   | 929  | 75083 | 33   | 943  | 75172 | 33   | 944  | 75260 | 37   | 1051 | 75370 | 37   | 1057 | 75471 | 37   | 1074 | 75568 | 37   | 1091 | 75662 | 37 | 1095 |
| 75001 | 33   | 929  | 75084 | 5    | 227  | 75175 | 5    | 234  | 75261 | 37   | 1051 | 75371 | 37   | 1057 | 75472 | 37   | 1074 | 75569 | 37   | 1091 | 75663 | 37 | 1095 |
| 75002 | 33   | 929  | 75084 | 33   | 943  | 75175 | 33   | 944  | 75262 | 37   | 1051 | 75372 | 37   | 1057 | 75473 | 37   | 1074 | 75570 | 37   | 1091 | 75664 | 37 | 1095 |
| 75003 | 33   | 929  | 75085 | 33   | 917  | 75176 | 5    | 234  | 75263 | 37   | 1051 | 75373 | 37   | 1057 | 75474 | 37   | 1074 | 75571 | 37   | 1091 | 75665 | 37 | 1095 |
| 75004 | 33   | 929  | 75086 | 33   | 917  | 75176 | 33   | 944  | 75264 | 37   | 1051 | 75374 | 37   | 1057 | 75475 | 37   | 1074 | 75572 | 37   | 1091 | 75666 | 37 | 1095 |
| 75005 | 33   | 929  | 75087 | 33   | 917  | 75177 | 5    | 234  | 75265 | 37   | 1051 | 75375 | 37   | 1057 | 75476 | 37   | 1074 | 75573 | 37   | 1091 | 75667 | 37 | 1095 |
| 75006 | 33   | 929  | 75088 | 33   | 917  | 75177 | 33   | 944  | 75266 | 37   | 1051 | 75376 | 37   | 1057 | 75477 | 37   | 1103 | 75574 | 37   | 1091 | 75668 | 37 | 1095 |
| 75007 | 33   | 929  | 75089 | 33   | 917  | 75178 | 5    | 234  | 75267 | 37   | 1090 | 75377 | 37   | 1057 | 75478 | 37   | 1103 | 75575 | 37   | 1091 | 75669 | 37 | 1095 |
| 75008 | 33   | 929  | 75090 | 33   | 917  | 75178 | 33   | 944  | 75268 | 37   | 1147 | 75378 | 37   | 1057 | 75479 | 37   | 1082 | 75576 | 37   | 1091 | 75670 | 37 | 1095 |
| 75009 | 33   | 929  | 75091 | 33   | 917  | 75179 | 5    | 234  | 75269 | 37   | 1147 | 75379 | 37   | 1057 | 75480 | 37   | 1082 | 75577 | 37   | 1091 | 75671 | 37 | 1095 |
| 75010 | 33   | 929  | 75092 | 33   | 917  | 75179 | 33   | 944  | 75274 | 37   | 1090 | 75380 | 37   | 1057 | 75481 | 37   | 1082 | 75578 | 37   | 1091 | 75672 | 37 | 1095 |
| 75011 | 33   | 929  | 75093 | 33   | 917  | 75180 | 33   | 930  | 75275 | 37   | 1052 | 75381 | 37   | 1057 | 75482 | 37   | 1082 | 75579 | 37   | 1091 | 75673 | 37 | 1095 |
| 75012 | 33   | 929  | 75094 | 33   | 917  | 75181 | 33   | 930  | 75276 | 37   | 1052 | 75382 | 37   | 1057 | 75483 | 37   | 1082 | 75580 | 37   | 1091 | 75674 | 37 | 1095 |
| 75013 | 33   | 929  | 75097 | 5    | 227  | 75182 | 33   | 930  | 75277 | 37   | 1052 | 75383 | 37   | 1057 | 75484 | 37   | 1082 | 75581 | 37   | 1091 | 75675 | 37 | 1095 |
| 75014 | 33   | 929  | 75097 | 33   | 943  | 75183 | 33   | 930  | 75278 | 37   | 1052 | 75384 | 37   | 1057 | 75485 | 37   | 1082 | 75582 | 37   | 1091 | 75676 | 37 | 1095 |
| 75015 | 33   | 929  | 75098 | 37   | 1050 | 75184 | 33   | 930  | 75279 | 37   | 1053 | 75385 | 37   | 1080 | 75486 | 37   | 1082 | 75583 | 37   | 1091 | 75677 | 37 | 1095 |
| 75016 | 33   | 929  | 75099 | 37   | 1050 | 75185 | 33   | 930  | 75281 | 37   | 1052 | 75386 | 37   | 1080 | 75487 | 37   | 1109 | 75584 | 37   | 1091 | 75678 | 37 | 1095 |
| 75017 | 33   | 929  | 75100 | 33   | 917  | 75186 | 33   | 930  | 75282 | 37   | 1052 | 75387 | 37   | 1080 | 75488 | 37   | 1109 | 75585 | 37   | 1091 | 75679 | 37 | 1095 |
| 75018 | 33   | 929  | 75101 | 33   | 917  | 75187 | 33   | 930  | 75283 | 37   | 1052 | 75388 | 37   | 1080 | 75489 | 37   | 1083 | 75586 | 37   | 1091 | 75680 | 37 | 1095 |
| 75019 | 33   | 929  | 75102 | 33   | 917  | 75188 | 33   | 930  | 75284 | 37   | 1052 | 75389 | 37   | 1080 | 75490 | 37   | 1083 | 75587 | 37   | 1091 | 75681 | 37 | 1095 |
| 75025 | 33   | 929  | 75103 | 33   | 917  |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |    |      |

| COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. |       |    |      |
|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|----|------|
| 75718 | 37   | 1093 | 75812 | 37   | 1111 | 75906 | 37   | 1134 | 76141 | 37   | 1090 | 76402 | 37   | 1058 | 76506 | 37   | 1126 | 76612 | 3    | 183  | 76659 | 5  | 235  |
| 75719 | 37   | 1093 | 75813 | 37   | 1111 | 75907 | 37   | 1134 | 76142 | 37   | 1090 | 76403 | 37   | 1058 | 76507 | 37   | 1126 | 76612 | 33   | 902  | 76659 | 33 | 945  |
| 75720 | 37   | 1103 | 75814 | 37   | 1111 | 75908 | 37   | 1134 | 76143 | 37   | 1090 | 76404 | 37   | 1058 | 76508 | 37   | 1126 | 76613 | 3    | 183  | 76660 | 5  | 235  |
| 75721 | 37   | 1103 | 75815 | 37   | 1111 | 75909 | 37   | 1134 | 76144 | 37   | 1090 | 76405 | 37   | 1058 | 76509 | 37   | 1126 | 76613 | 33   | 902  | 76660 | 33 | 945  |
| 75722 | 37   | 1097 | 75816 | 37   | 1111 | 75910 | 37   | 1134 | 76145 | 33   | 908  | 76406 | 37   | 1058 | 76510 | 37   | 1126 | 76614 | 3    | 183  | 76661 | 5  | 235  |
| 75723 | 37   | 1097 | 75817 | 37   | 1111 | 75911 | 37   | 1134 | 76147 | 33   | 907  | 76407 | 37   | 1058 | 76511 | 37   | 1126 | 76614 | 33   | 902  | 76661 | 33 | 945  |
| 75724 | 37   | 1105 | 75818 | 37   | 1111 | 75912 | 37   | 1134 | 76149 | 38   | 1251 | 76408 | 37   | 1058 | 76512 | 37   | 1130 | 76615 | 3    | 183  | 76662 | 5  | 235  |
| 75725 | 37   | 1105 | 75819 | 37   | 1111 | 75913 | 37   | 1134 | 76202 | 37   | 1128 | 76409 | 37   | 1058 | 76513 | 37   | 1130 | 76615 | 33   | 902  | 76662 | 33 | 945  |
| 75726 | 37   | 1105 | 75820 | 37   | 1111 | 75914 | 37   | 1134 | 76203 | 37   | 1128 | 76410 | 37   | 1058 | 76514 | 37   | 1130 | 76616 | 3    | 183  | 76664 | 5  | 242  |
| 75727 | 37   | 1105 | 75821 | 37   | 1111 | 75915 | 37   | 1134 | 76204 | 37   | 1128 | 76411 | 37   | 1059 | 76515 | 37   | 1130 | 76616 | 33   | 903  | 76664 | 33 | 946  |
| 75728 | 37   | 1105 | 75822 | 37   | 1111 | 75916 | 37   | 1134 | 76205 | 37   | 1128 | 76412 | 37   | 1058 | 76516 | 37   | 1130 | 76617 | 3    | 183  | 76665 | 5  | 242  |
| 75729 | 37   | 1105 | 75823 | 37   | 1111 | 75917 | 37   | 1134 | 76206 | 37   | 1128 | 76413 | 37   | 1059 | 76517 | 37   | 1130 | 76617 | 33   | 903  | 76665 | 33 | 946  |
| 75730 | 37   | 1105 | 75824 | 37   | 1111 | 75918 | 37   | 1134 | 76207 | 37   | 1128 | 76414 | 37   | 1058 | 76518 | 37   | 1141 | 76618 | 3    | 184  | 76667 | 5  | 242  |
| 75731 | 37   | 1105 | 75825 | 37   | 1111 | 75919 | 37   | 1134 | 76208 | 37   | 1128 | 76415 | 37   | 1059 | 76519 | 37   | 1141 | 76618 | 33   | 903  | 76667 | 33 | 946  |
| 75732 | 37   | 1106 | 75826 | 37   | 1111 | 75920 | 37   | 1134 | 76209 | 37   | 1128 | 76416 | 37   | 1058 | 76520 | 37   | 1141 | 76619 | 3    | 184  | 76668 | 5  | 242  |
| 75733 | 37   | 1106 | 75827 | 37   | 1111 | 75921 | 37   | 1134 | 76210 | 37   | 1128 | 76417 | 37   | 1059 | 76521 | 37   | 1141 | 76619 | 33   | 903  | 76668 | 33 | 946  |
| 75734 | 37   | 1105 | 75828 | 37   | 1110 | 75922 | 37   | 1134 | 76211 | 37   | 1128 | 76418 | 37   | 1059 | 76522 | 37   | 1141 | 76620 | 5    | 223  | 76670 | 5  | 243  |
| 75735 | 37   | 1105 | 75829 | 37   | 1110 | 75923 | 37   | 1134 | 76212 | 37   | 1128 | 76419 | 37   | 1059 | 76523 | 37   | 1063 | 76620 | 33   | 939  | 76670 | 33 | 946  |
| 75736 | 37   | 1105 | 75830 | 37   | 1110 | 75924 | 37   | 1134 | 76213 | 37   | 1128 | 76420 | 37   | 1059 | 76524 | 37   | 1063 | 76621 | 5    | 223  | 76671 | 5  | 243  |
| 75737 | 37   | 1105 | 75831 | 37   | 1110 | 75925 | 37   | 1134 | 76214 | 37   | 1128 | 76421 | 37   | 1059 | 76525 | 37   | 1141 | 76621 | 33   | 939  | 76671 | 33 | 946  |
| 75738 | 37   | 1105 | 75832 | 37   | 1110 | 75926 | 37   | 1134 | 76215 | 37   | 1128 | 76422 | 37   | 1059 | 76531 | 38   | 1199 | 76622 | 5    | 223  | 76674 | 5  | 244  |
| 75739 | 37   | 1105 | 75833 | 37   | 1110 | 75927 | 37   | 1134 | 76216 | 37   | 1128 | 76423 | 37   | 1059 | 76533 | 38   | 1213 | 76622 | 33   | 939  | 76674 | 33 | 947  |
| 75740 | 37   | 1105 | 75834 | 37   | 1110 | 75928 | 37   | 1134 | 76217 | 37   | 1128 | 76424 | 37   | 1059 | 76545 | 37   | 1158 | 76623 | 5    | 223  | 76676 | 5  | 242  |
| 75741 | 37   | 1105 | 75835 | 37   | 1110 | 75929 | 37   | 1134 | 76218 | 37   | 1128 | 76425 | 37   | 1059 | 76546 | 37   | 1158 | 76623 | 33   | 939  | 76676 | 33 | 946  |
| 75742 | 37   | 1105 | 75836 | 37   | 1110 | 75930 | 37   | 1134 | 76219 | 37   | 1128 | 76426 | 37   | 1059 | 76547 | 37   | 1166 | 76624 | 5    | 223  | 76677 | 5  | 242  |
| 75743 | 37   | 1105 | 75837 | 37   | 1110 | 75931 | 37   | 1134 | 76220 | 37   | 1128 | 76427 | 37   | 1059 | 76548 | 37   | 1166 | 76624 | 33   | 939  | 76677 | 33 | 946  |
| 75744 | 37   | 1105 | 75838 | 37   | 1110 | 75932 | 37   | 1134 | 76221 | 37   | 1128 | 76428 | 37   | 1059 | 76550 | 7    | 299  | 76625 | 5    | 223  | 76678 | 32 | 890  |
| 75745 | 37   | 1105 | 75839 | 37   | 1110 | 75933 | 37   | 1134 | 76222 | 37   | 1128 | 76429 | 37   | 1059 | 76550 | 33   | 909  | 76625 | 33   | 939  | 76678 | 33 | 949  |
| 75746 | 37   | 1105 | 75840 | 37   | 1110 | 75934 | 37   | 1134 | 76223 | 37   | 1128 | 76430 | 37   | 1059 | 76551 | 7    | 299  | 76626 | 5    | 223  | 76679 | 32 | 890  |
| 75747 | 37   | 1105 | 75841 | 37   | 1110 | 75935 | 37   | 1134 | 76224 | 37   | 1128 | 76431 | 37   | 1059 | 76551 | 33   | 909  | 76626 | 33   | 939  | 76679 | 33 | 949  |
| 75748 | 37   | 1105 | 75842 | 37   | 1110 | 75936 | 37   | 1134 | 76225 | 37   | 1128 | 76432 | 37   | 1059 | 76552 | 7    | 299  | 76627 | 5    | 223  | 76684 | 5  | 249  |
| 75749 | 37   | 1105 | 75843 | 37   | 1110 | 75937 | 37   | 1134 | 76226 | 37   | 1128 | 76433 | 37   | 1059 | 76552 | 33   | 909  | 76627 | 33   | 939  | 76684 | 33 | 950  |
| 75750 | 37   | 1105 | 75844 | 37   | 1110 | 75938 | 37   | 1134 | 76227 | 37   | 1128 | 76434 | 37   | 1059 | 76553 | 7    | 299  | 76628 | 5    | 224  | 76685 | 5  | 249  |
| 75751 | 37   | 1105 | 75845 | 37   | 1110 | 75939 | 37   | 1134 | 76228 | 37   | 1128 | 76435 | 37   | 1060 | 76553 | 33   | 909  | 76628 | 33   | 940  | 76685 | 33 | 950  |
| 75752 | 37   | 1105 | 75846 | 37   | 1110 | 75940 | 37   | 1134 | 76229 | 37   | 1128 | 76436 | 37   | 1059 | 76554 | 7    | 300  | 76629 | 5    | 224  | 76686 | 2  | 108  |
| 75753 | 37   | 1105 | 75847 | 37   | 1110 | 75941 | 37   | 1134 | 76230 | 37   | 1128 | 76437 | 37   | 1060 | 76554 | 33   | 909  | 76629 | 33   | 940  | 76686 | 33 | 954  |
| 75754 | 37   | 1106 | 75848 | 37   | 1110 | 75942 | 37   | 1134 | 76231 | 37   | 1128 | 76438 | 37   | 1059 | 76555 | 7    | 300  | 76630 | 5    | 224  | 76687 | 2  | 108  |
| 75755 | 37   | 1106 | 75849 | 37   | 1110 | 75943 | 37   | 1134 | 76232 | 37   | 1128 | 76439 | 37   | 1060 | 76555 | 33   | 909  | 76630 | 33   | 940  | 76687 | 33 | 954  |
| 75756 | 37   | 1106 | 75850 | 37   | 1110 | 75944 | 37   | 1134 | 76233 | 37   | 1128 | 76440 | 37   | 1059 | 76556 | 7    | 300  | 76631 | 5    | 224  | 76688 | 2  | 109  |
| 75757 | 37   | 1106 | 75851 | 37   | 1110 | 75945 | 37   | 1134 | 76234 | 37   | 1128 | 76441 | 37   | 1060 | 76556 | 33   | 909  | 76631 | 33   | 940  | 76688 | 33 | 954  |
| 75758 | 37   | 1106 | 75852 | 37   | 1110 | 75946 | 37   | 1134 | 76235 | 37   | 1128 | 76442 | 37   | 1059 | 76557 | 7    | 300  | 76632 | 5    | 224  | 76689 | 2  | 109  |
| 75759 | 37   | 1106 | 75853 | 37   | 1110 | 75947 | 37   | 1134 | 76236 | 37   | 1128 | 76443 | 37   | 1060 | 76557 | 33   | 909  | 76632 | 33   | 940  | 76689 | 33 | 954  |
| 75760 | 37   | 1106 | 75854 | 37   | 1111 | 75946 | 37   | 1096 | 76237 | 37   | 1128 | 76444 | 37   | 1060 | 76578 | 7    | 308  | 76633 | 5    | 225  | 76690 | 2  | 110  |
| 75761 | 37   | 1106 | 75855 | 37   | 1111 | 75967 | 37   | 1096 | 76240 | 36   | 1033 | 76445 | 37   | 1060 | 76578 | 33   | 909  | 76633 | 33   | 940  | 76690 | 33 | 952  |
| 75762 | 37   | 1106 | 75856 | 37   | 1111 | 75968 | 37   | 1130 | 76241 | 36   | 1033 | 76446 | 37   | 1060 | 76580 | 7    | 308  | 76634 | 5    | 225  | 76691 | 2  | 110  |
| 75763 | 37   | 1106 | 75857 | 37   | 1111 | 76020 | 33   | 912  | 76242 | 36   | 1033 | 76447 | 37   | 1060 | 76580 | 33   | 909  | 76634 | 33   | 940  | 76691 | 33 | 952  |
| 75764 | 37   | 1106 | 75858 | 37   | 1111 | 76021 | 37   | 1073 | 76243 | 36   | 1033 | 76448 | 37   | 1060 | 76581 | 7    | 308  | 76635 | 5    | 225  | 76693 | 37 | 1166 |
| 75765 | 37   | 1106 | 75859 | 37   | 1111 | 76022 | 37   | 1073 | 76280 | 37   | 1128 | 76449 | 37   | 1060 | 76581 | 33   | 909  | 76635 | 33   | 940  | 76694 | 37 | 1166 |
| 75766 | 37   | 1106 | 75860 | 37   | 1111 | 76023 | 33   | 912  | 76281 | 37   | 1128 | 76450 | 37   | 1060 | 76582 | 3    | 184  | 76636 | 5    | 225  | 76695 | 37 | 1166 |
| 75767 | 37   | 1106 | 75861 | 37   | 1111 | 76032 | 33   | 912  | 76282 | 37   | 1128 | 76451 | 37   | 1060 | 76582 | 33   | 898  | 76636 | 33   | 940  | 76696 | 37 | 1166 |
| 75768 | 37   | 1106 | 75862 | 37   | 1111 | 76062 | 37   | 1143 | 76283 | 37   | 1128 | 76452 | 37   | 1060 | 76583 | 3    | 184  | 76637 | 5    | 225  | 76697 | 37 | 1166 |
| 75769 | 37   | 1106 | 75863 | 37   | 1111 | 76065 | 37   | 1155 | 76284 | 37   | 1128 | 76453 | 37   | 1060 | 76583 | 33   | 898  | 76637 | 33   | 940  | 76698 | 37 | 1166 |
| 75770 | 37   | 1106 | 75864 | 37   | 1111 | 76069 | 37   | 1155 | 76285 | 37   | 1128 | 76454 | 37   | 1060 | 76584 | 3    | 184  | 76638 | 5    | 225  | 76699 | 37 | 1166 |
| 75771 | 37   | 1106 | 75865 | 37   | 1111 | 76071 | 37   | 1155 | 76286 | 37   | 1128 | 76455 | 37   | 1060 | 76584 | 33   | 898  | 76638 | 33   | 941  | 76700 | 37 | 1166 |
| 75772 | 37   | 1110 | 75866 | 37   | 1111 | 76083 | 5    | 251  | 76287 | 37   | 1128 | 76456 | 37   | 1060 | 76589 | 3    | 184  | 76639 | 5    | 225  | 76703 | 37 | 1167 |
| 75773 | 37   | 1110 | 75867 | 37   | 1111 | 76083 | 33   | 951  | 76289 | 38   | 1251 | 76457 | 37   | 1060 | 76589 | 33   | 898  | 76639 | 33   | 941  | 76704 | 38 | 1251 |
| 75774 | 37   | 1110 | 75868 | 37   | 1111 | 76084 | 37   | 1061 | 76352 | 37   | 1129 | 76458 | 37   | 1060 | 76590 | 3    | 185  | 76640 | 5    | 225  | 76705 | 37 | 1167 |
| 75775 | 37   | 1110 | 75869 | 37   | 1111 | 76085 | 37   | 1061 | 76353 | 37   | 1129 | 76459 | 37   | 1060 | 76590 | 33   | 898  | 76640 | 33   | 941  | 76706 | 38 | 1251 |
| 75776 | 37   | 1110 | 75870 | 3    |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |    |      |









| COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. |       |    |     |
|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|----|-----|
| 79061 | 33   | 952  | 79264 | 36   | 1035 | 79357 | 39   | 1269 | 79477 | 33   | 926  | 79763 | 38   | 1246 | 79881 | 37   | 1130 | 79971 | 37   | 1076 | 81024 | 17 | 681 |
| 79062 | 2    | 111  | 79265 | 36   | 1035 | 79358 | 36   | 1034 | 79478 | 33   | 927  | 79764 | 38   | 1246 | 79882 | 37   | 1130 | 79972 | 37   | 1076 | 81025 | 17 | 681 |
| 79062 | 33   | 952  | 79266 | 36   | 1035 | 79359 | 36   | 1034 | 79479 | 33   | 932  | 79765 | 38   | 1246 | 79883 | 37   | 1131 | 79973 | 37   | 1076 | 81026 | 17 | 681 |
| 79063 | 2    | 110  | 79267 | 36   | 1035 | 79360 | 38   | 1205 | 79480 | 33   | 932  | 79766 | 38   | 1246 | 79884 | 37   | 1131 | 79974 | 37   | 1076 | 81027 | 17 | 681 |
| 79063 | 33   | 952  | 79268 | 36   | 1035 | 79361 | 36   | 1034 | 79481 | 37   | 1053 | 79767 | 38   | 1246 | 79885 | 37   | 1131 | 79975 | 33   | 938  | 81028 | 17 | 681 |
| 79064 | 2    | 109  | 79269 | 36   | 1035 | 79362 | 36   | 1034 | 79482 | 37   | 1053 | 79768 | 38   | 1246 | 79886 | 37   | 1131 | 79976 | 33   | 938  | 81029 | 17 | 681 |
| 79064 | 33   | 953  | 79270 | 36   | 1035 | 79363 | 36   | 1034 | 79483 | 33   | 910  | 79769 | 38   | 1246 | 79887 | 37   | 1131 | 79977 | 33   | 938  | 81030 | 17 | 681 |
| 79065 | 2    | 109  | 79271 | 36   | 1035 | 79364 | 36   | 1034 | 79484 | 33   | 910  | 79770 | 38   | 1246 | 79888 | 37   | 1131 | 79978 | 33   | 938  | 81031 | 17 | 681 |
| 79065 | 33   | 953  | 79272 | 36   | 1035 | 79365 | 15   | 663  | 79485 | 33   | 910  | 79772 | 38   | 1246 | 79889 | 33   | 915  | 79979 | 33   | 938  | 81033 | 7  | 311 |
| 79066 | 2    | 108  | 79273 | 36   | 1035 | 79366 | 33   | 956  | 79486 | 33   | 912  | 79773 | 38   | 1246 | 79890 | 33   | 915  | 79980 | 38   | 1243 | 81034 | 7  | 311 |
| 79066 | 33   | 953  | 79274 | 36   | 1035 | 79370 | 33   | 914  | 79487 | 33   | 912  | 79774 | 38   | 1246 | 79891 | 33   | 915  | 79980 | 39   | 1268 | 81035 | 7  | 311 |
| 79067 | 33   | 920  | 79275 | 36   | 1035 | 79371 | 33   | 914  | 79488 | 33   | 912  | 79775 | 38   | 1246 | 79892 | 33   | 924  | 79981 | 38   | 1243 | 81039 | 7  | 311 |
| 79068 | 33   | 920  | 79276 | 38   | 1225 | 79372 | 33   | 914  | 79495 | 33   | 918  | 79776 | 38   | 1246 | 79893 | 33   | 924  | 79981 | 39   | 1268 | 81540 | 7  | 311 |
| 79069 | 33   | 921  | 79277 | 36   | 1035 | 79373 | 33   | 914  | 79496 | 33   | 918  | 79777 | 38   | 1246 | 79894 | 33   | 924  | 79982 | 38   | 1243 | 81541 | 7  | 311 |
| 79070 | 33   | 921  | 79278 | 36   | 1035 | 79374 | 33   | 914  | 79497 | 33   | 918  | 79778 | 38   | 1246 | 79895 | 33   | 924  | 79982 | 39   | 1268 | 81542 | 7  | 311 |
| 79071 | 33   | 926  | 79279 | 36   | 1035 | 79375 | 33   | 914  | 79498 | 33   | 924  | 79779 | 38   | 1246 | 79896 | 33   | 924  | 79983 | 38   | 1243 | 81543 | 7  | 311 |
| 79072 | 33   | 926  | 79280 | 36   | 1035 | 79376 | 33   | 914  | 79502 | 38   | 1203 | 79780 | 38   | 1246 | 79897 | 33   | 924  | 79983 | 39   | 1268 | 81544 | 7  | 311 |
| 79073 | 33   | 927  | 79281 | 36   | 1035 | 79377 | 33   | 914  | 79590 | 38   | 1213 | 79784 | 38   | 1201 | 79898 | 33   | 924  | 79984 | 38   | 1243 | 81545 | 7  | 311 |
| 79074 | 33   | 932  | 79282 | 36   | 1035 | 79378 | 33   | 914  | 79591 | 38   | 1214 | 79789 | 38   | 1217 | 79899 | 33   | 938  | 79984 | 39   | 1268 | 81546 | 7  | 311 |
| 79075 | 33   | 932  | 79283 | 36   | 1035 | 79379 | 33   | 914  | 79595 | 38   | 1212 | 79799 | 33   | 938  | 79900 | 39   | 1257 | 79985 | 38   | 1243 | 81547 | 7  | 311 |
| 79076 | 33   | 933  | 79284 | 36   | 1035 | 79380 | 33   | 914  | 79598 | 38   | 1214 | 79800 | 33   | 938  | 79901 | 39   | 1257 | 79985 | 39   | 1268 | 81548 | 7  | 311 |
| 79077 | 33   | 933  | 79285 | 36   | 1035 | 79381 | 33   | 914  | 79598 | 39   | 1270 | 79801 | 33   | 938  | 79902 | 38   | 1230 | 79986 | 38   | 1243 | 81549 | 7  | 311 |
| 79078 | 33   | 934  | 79286 | 36   | 1035 | 79382 | 33   | 914  | 79602 | 38   | 1218 | 79802 | 33   | 938  | 79902 | 39   | 1260 | 79986 | 39   | 1268 | 81550 | 7  | 311 |
| 79082 | 40   | 1288 | 79287 | 36   | 1035 | 79383 | 33   | 914  | 79603 | 38   | 1218 | 79803 | 33   | 938  | 79903 | 38   | 1230 | 79989 | 38   | 1241 | 81551 | 7  | 311 |
| 79083 | 40   | 1281 | 79288 | 36   | 1035 | 79384 | 33   | 914  | 79604 | 38   | 1226 | 79804 | 33   | 938  | 79903 | 39   | 1260 | 79990 | 33   | 915  | 81552 | 7  | 311 |
| 79084 | 40   | 1283 | 79289 | 36   | 1035 | 79385 | 33   | 914  | 79605 | 38   | 1219 | 79805 | 33   | 938  | 79904 | 38   | 1219 | 79991 | 33   | 915  | 81553 | 7  | 311 |
| 79085 | 40   | 1284 | 79290 | 36   | 1035 | 79386 | 33   | 914  | 79606 | 38   | 1220 | 79806 | 33   | 938  | 79904 | 39   | 1262 | 79992 | 33   | 915  | 81554 | 7  | 311 |
| 79086 | 15   | 664  | 79291 | 36   | 1035 | 79387 | 33   | 914  | 79607 | 38   | 1235 | 79810 | 40   | 1285 | 79905 | 38   | 1219 | 79993 | 33   | 915  | 81602 | 19 | 724 |
| 79086 | 33   | 957  | 79292 | 36   | 1035 | 79388 | 33   | 914  | 79608 | 38   | 1235 | 79811 | 40   | 1285 | 79905 | 39   | 1262 | 79994 | 33   | 915  | 81671 | 17 | 681 |
| 79087 | 36   | 1034 | 79293 | 36   | 1035 | 79389 | 33   | 914  | 79609 | 38   | 1236 | 79812 | 40   | 1285 | 79906 | 38   | 1226 | 79995 | 33   | 915  | 81672 | 17 | 681 |
| 79088 | 36   | 1034 | 79294 | 36   | 1035 | 79390 | 33   | 915  | 79610 | 38   | 1229 | 79815 | 11   | 566  | 79906 | 39   | 1263 | 79996 | 38   | 1221 | 81673 | 17 | 681 |
| 79089 | 37   | 1067 | 79295 | 36   | 1035 | 79391 | 33   | 915  | 79612 | 38   | 1230 | 79815 | 38   | 1254 | 79907 | 38   | 1227 | 79998 | 38   | 1221 | 81674 | 17 | 681 |
| 79100 | 37   | 1048 | 79296 | 36   | 1035 | 79392 | 33   | 915  | 79613 | 38   | 1231 | 79816 | 38   | 1240 | 79907 | 39   | 1263 | 79999 | 11   | 566  | 81965 | 7  | 311 |
| 79101 | 37   | 1048 | 79297 | 36   | 1035 | 79393 | 33   | 915  | 79616 | 38   | 1237 | 79819 | 37   | 1084 | 79908 | 38   | 1227 | 79999 | 38   | 1254 | 81966 | 7  | 311 |
| 79128 | 37   | 1048 | 79298 | 36   | 1035 | 79394 | 33   | 914  | 79617 | 38   | 1238 | 79820 | 37   | 1084 | 79908 | 39   | 1264 | 80033 | 17   | 680  | 81967 | 7  | 311 |
| 79129 | 37   | 1048 | 79299 | 36   | 1035 | 79422 | 38   | 1223 | 79618 | 38   | 1239 | 79821 | 37   | 1144 | 79909 | 39   | 1258 | 80034 | 17   | 680  | 81968 | 7  | 311 |
| 79145 | 37   | 1048 | 79300 | 36   | 1035 | 79423 | 33   | 912  | 79619 | 38   | 1247 | 79822 | 37   | 1145 | 79911 | 39   | 1259 | 80035 | 17   | 680  | 83694 | 20 | 741 |
| 79146 | 37   | 1048 | 79301 | 36   | 1035 | 79424 | 33   | 912  | 79620 | 38   | 1248 | 79823 | 37   | 1145 | 79912 | 39   | 1264 | 80036 | 17   | 680  | 83694 | 20 | 742 |
| 79147 | 36   | 1034 | 79302 | 36   | 1035 | 79425 | 33   | 912  | 79621 | 38   | 1249 | 79824 | 37   | 1144 | 79913 | 38   | 1242 | 80037 | 17   | 680  | 83696 | 20 | 742 |
| 79148 | 36   | 1034 | 79303 | 38   | 1222 | 79426 | 33   | 912  | 79622 | 38   | 1249 | 79825 | 37   | 1145 | 79913 | 39   | 1267 | 80038 | 17   | 680  | 85000 | 19 | 706 |
| 79149 | 36   | 1034 | 79304 | 36   | 1035 | 79427 | 33   | 912  | 79624 | 38   | 1250 | 79826 | 37   | 1145 | 79914 | 38   | 1242 | 80039 | 17   | 680  | 85005 | 19 | 716 |
| 79150 | 36   | 1034 | 79305 | 36   | 1035 | 79428 | 33   | 912  | 79626 | 38   | 1230 | 79827 | 37   | 1154 | 79914 | 39   | 1267 | 80040 | 17   | 680  | 85009 | 19 | 706 |
| 79151 | 36   | 1034 | 79306 | 36   | 1035 | 79429 | 33   | 912  | 79631 | 38   | 1232 | 79828 | 37   | 1154 | 79915 | 38   | 1228 | 80041 | 17   | 680  | 85009 | 19 | 716 |
| 79152 | 36   | 1034 | 79307 | 36   | 1035 | 79430 | 33   | 912  | 79632 | 38   | 1221 | 79829 | 37   | 1154 | 79915 | 39   | 1265 | 80042 | 17   | 680  | 85010 | 19 | 706 |
| 79153 | 36   | 1034 | 79308 | 36   | 1035 | 79431 | 33   | 912  | 79633 | 38   | 1221 | 79830 | 37   | 1154 | 79916 | 38   | 1228 | 80043 | 17   | 680  | 85010 | 19 | 716 |
| 79154 | 36   | 1034 | 79309 | 36   | 1035 | 79432 | 38   | 1224 | 79639 | 38   | 1209 | 79831 | 37   | 1154 | 79916 | 39   | 1265 | 80044 | 17   | 680  | 85082 | 17 | 681 |
| 79155 | 36   | 1034 | 79310 | 36   | 1035 | 79432 | 39   | 1266 | 79640 | 38   | 1209 | 79832 | 37   | 1154 | 79917 | 38   | 1233 | 80045 | 17   | 680  | 85083 | 17 | 681 |
| 79156 | 36   | 1034 | 79311 | 36   | 1035 | 79434 | 33   | 915  | 79641 | 38   | 1211 | 79834 | 37   | 1161 | 79917 | 39   | 1261 | 80046 | 17   | 680  | 85084 | 17 | 681 |
| 79157 | 36   | 1034 | 79312 | 36   | 1035 | 79435 | 33   | 915  | 79642 | 38   | 1209 | 79835 | 37   | 1161 | 79918 | 38   | 1233 | 80047 | 17   | 680  | 85085 | 17 | 681 |
| 79158 | 36   | 1034 | 79313 | 36   | 1035 | 79437 | 33   | 926  | 79643 | 38   | 1209 | 79836 | 38   | 1240 | 79918 | 39   | 1261 | 80048 | 17   | 680  | 85100 | 20 | 744 |
| 79159 | 36   | 1034 | 79314 | 36   | 1035 | 79440 | 40   | 1280 | 79644 | 38   | 1209 | 79837 | 37   | 1135 | 79919 | 38   | 1234 | 80049 | 17   | 680  | 85100 | 20 | 749 |
| 79160 | 36   | 1034 | 79315 | 36   | 1035 | 79441 | 40   | 1280 | 79645 | 38   | 1211 | 79838 | 37   | 1135 | 79919 | 39   | 1261 | 80050 | 17   | 680  | 85101 | 20 | 744 |
| 79161 | 36   | 1034 | 79316 | 36   | 1035 | 79442 | 40   | 1280 | 79646 | 38   | 1211 | 79839 | 37   | 1130 | 79920 | 38   | 1224 | 80051 | 17   | 680  | 85101 | 20 | 749 |
| 79162 | 36   | 1034 | 79317 | 36   | 1035 | 79443 | 40   | 1280 | 79647 | 38   | 1211 | 79840 | 37   | 1130 | 79920 | 39   | 1269 | 80052 | 17   | 680  | 85102 | 20 | 745 |
| 79163 | 5    | 224  | 79318 | 36   | 1035 | 79444 | 40   | 1280 | 79648 | 38   | 1211 | 79841 | 37   | 1130 | 79921 | 39   | 1258 | 80053 | 17   | 680  | 85102 | 20 | 749 |
| 79163 | 33   | 940  | 79319 | 36   | 1035 | 79445 | 40   | 1280 | 79650 | 38   | 1212 | 79842 | 37   | 1130 | 79922 | 33   | 919  | 80315 | 17   | 679  | 85103 | 20 | 743 |
| 79164 | 5    | 224  | 79320 | 36   | 1035 | 79446 | 40   | 1280 | 79658 | 38   | 1238 | 79843 | 37   | 1130 | 79927 | 33   | 938  | 80320 | 17   | 679  | 85103 | 20 | 744 |
| 79164 | 33   | 940  | 79321 | 36   | 1035 | 79447 | 37   | 1053 | 79662 | 38   | 1233 | 79844 | 37   | 1130 | 79930 | 37   | 1171 | 80324 | 17   | 679  | 85103 | 20 | 749 |
| 79165 | 5    | 225  | 79322 | 36   | 1035 | 79448 | 40   | 12   |       |      |      |       |      |      |       |      |      |       |      |      |       |    |     |

| COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.  | CAP. | PAG. | COD.     | CAP. | PAG. | COD.     | CAP. | PAG. |          |    |     |
|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|----------|------|------|----------|------|------|----------|----|-----|
| 86893 | 8    | 372  | 89133 | 35   | 984  | 89170 | 35   | 982  | 89206 | 35   | 982  | 90061 | 2    | 172  | AD361117 | 35   | 983  | AD500467 | 35   | 1017 | AD574347 | 8  | 353 |
| 86894 | 8    | 372  | 89134 | 8    | 355  | 89170 | 35   | 984  | 89206 | 35   | 984  | 90063 | 2    | 172  | AD361127 | 35   | 983  | AD500657 | 35   | 1017 | AD574347 | 35 | 981 |
| 86900 | 19   | 725  | 89134 | 35   | 982  | 89171 | 8    | 355  | 89207 | 8    | 355  | 90064 | 2    | 172  | AD361137 | 35   | 983  | AD500667 | 35   | 1017 | AD574357 | 8  | 353 |
| 86901 | 19   | 725  | 89134 | 35   | 984  | 89171 | 35   | 982  | 89207 | 35   | 982  | 90065 | 2    | 172  | AD361147 | 35   | 983  | AD500677 | 35   | 1018 | AD574357 | 35 | 981 |
| 86902 | 19   | 725  | 89135 | 8    | 355  | 89171 | 35   | 984  | 89207 | 35   | 984  | 90080 | 2    | 172  | AD361157 | 35   | 983  | AD500687 | 35   | 1018 | AD574367 | 8  | 353 |
| 86903 | 19   | 725  | 89135 | 35   | 982  | 89172 | 8    | 355  | 89208 | 8    | 355  | 90081 | 2    | 172  | AD361167 | 35   | 983  | AD500697 | 35   | 1018 | AD574367 | 35 | 981 |
| 86903 | 19   | 732  | 89135 | 35   | 984  | 89172 | 35   | 982  | 89208 | 35   | 982  | 90082 | 2    | 172  | AD361177 | 35   | 983  | AD500707 | 35   | 1018 | AD574377 | 8  | 353 |
| 86903 | 19   | 733  | 89136 | 8    | 355  | 89172 | 35   | 984  | 89208 | 35   | 984  | 90083 | 2    | 172  | AD361187 | 35   | 983  | AD500717 | 35   | 1018 | AD574377 | 35 | 981 |
| 86904 | 19   | 725  | 89136 | 35   | 982  | 89173 | 8    | 355  | 89209 | 8    | 355  | 90101 | 43   | 1357 | AD361197 | 35   | 983  | AD500727 | 35   | 1019 | AD574387 | 8  | 353 |
| 86905 | 19   | 725  | 89136 | 35   | 984  | 89173 | 35   | 982  | 89209 | 35   | 982  | 90162 | 2    | 173  | AD361207 | 35   | 983  | AD500737 | 35   | 1019 | AD574387 | 35 | 981 |
| 87096 | 17   | 682  | 89137 | 8    | 355  | 89173 | 35   | 984  | 89209 | 35   | 984  | 90171 | 43   | 1358 | AD361217 | 35   | 983  | AD500747 | 35   | 1019 | AD574397 | 8  | 353 |
| 87097 | 17   | 682  | 89137 | 35   | 982  | 89174 | 8    | 355  | 89210 | 35   | 984  | 90172 | 2    | 131  | AD361227 | 35   | 983  | AD500757 | 35   | 1019 | AD574397 | 35 | 981 |
| 87098 | 17   | 682  | 89137 | 35   | 984  | 89174 | 35   | 982  | 89211 | 8    | 355  | 90173 | 2    | 131  | AD361237 | 35   | 983  | AD500767 | 35   | 1019 | AD574407 | 8  | 353 |
| 87099 | 17   | 682  | 89138 | 8    | 355  | 89174 | 35   | 984  | 89211 | 35   | 982  | 90184 | 2    | 139  | AD361247 | 35   | 983  | AD500777 | 35   | 1019 | AD574407 | 35 | 981 |
| 87100 | 17   | 682  | 89138 | 35   | 982  | 89175 | 8    | 355  | 89211 | 35   | 984  | 90185 | 2    | 138  | AD361257 | 35   | 983  | AD500787 | 35   | 1020 | AD574417 | 8  | 353 |
| 87101 | 17   | 682  | 89138 | 35   | 984  | 89175 | 35   | 982  | 89212 | 8    | 355  | 90186 | 2    | 138  | AD361267 | 35   | 983  | AD500797 | 35   | 1020 | AD574417 | 35 | 981 |
| 87102 | 17   | 682  | 89139 | 8    | 355  | 89175 | 35   | 984  | 89212 | 35   | 982  | 90187 | 2    | 138  | AD361277 | 35   | 983  | AD500807 | 35   | 1020 | AD574427 | 8  | 353 |
| 87103 | 17   | 682  | 89139 | 35   | 982  | 89176 | 8    | 355  | 89212 | 35   | 984  | 90188 | 43   | 1358 | AD361287 | 35   | 983  | AD500817 | 35   | 1020 | AD574427 | 35 | 981 |
| 87104 | 17   | 682  | 89139 | 35   | 984  | 89176 | 35   | 982  | 89213 | 8    | 355  | 90301 | 43   | 1352 | AD361297 | 35   | 983  | AD500827 | 35   | 1020 | AD574437 | 8  | 353 |
| 87105 | 17   | 682  | 89140 | 8    | 355  | 89176 | 35   | 984  | 89213 | 35   | 982  | 90302 | 43   | 1352 | AD361307 | 35   | 983  | AD553307 | 35   | 988  | AD574437 | 35 | 981 |
| 87106 | 17   | 682  | 89140 | 35   | 982  | 89177 | 8    | 355  | 89213 | 35   | 984  | 90303 | 43   | 1353 | AD361317 | 35   | 983  | AD553317 | 35   | 988  | AD574447 | 8  | 353 |
| 87107 | 17   | 682  | 89140 | 35   | 984  | 89177 | 35   | 982  | 89214 | 8    | 355  | 90304 | 43   | 1353 | AD361327 | 35   | 983  | AD553327 | 35   | 988  | AD574447 | 35 | 981 |
| 87840 | 17   | 694  | 89141 | 8    | 355  | 89177 | 35   | 984  | 89214 | 35   | 982  | 90305 | 43   | 1353 | AD361337 | 35   | 983  | AD553337 | 35   | 988  | AD574457 | 8  | 353 |
| 87841 | 17   | 694  | 89141 | 35   | 982  | 89178 | 8    | 355  | 89214 | 35   | 984  | 90306 | 43   | 1353 | AD361347 | 35   | 983  | AD553347 | 35   | 988  | AD574457 | 35 | 981 |
| 87842 | 17   | 694  | 89141 | 35   | 984  | 89178 | 35   | 982  | 89215 | 8    | 355  | 90307 | 43   | 1353 | AD361357 | 35   | 983  | AD553357 | 35   | 988  | AD574467 | 8  | 353 |
| 87843 | 17   | 694  | 89142 | 8    | 355  | 89178 | 35   | 984  | 89215 | 35   | 982  | 90308 | 43   | 1353 | AD361367 | 35   | 983  | AD553367 | 35   | 988  | AD574467 | 35 | 981 |
| 87844 | 17   | 694  | 89142 | 35   | 982  | 89179 | 8    | 355  | 89215 | 35   | 984  | 90310 | 43   | 1353 | AD361377 | 35   | 983  | AD553377 | 35   | 988  | AD574477 | 8  | 353 |
| 87845 | 17   | 694  | 89142 | 35   | 984  | 89179 | 35   | 982  | 89216 | 8    | 355  | 90312 | 2    | 123  | AD361387 | 35   | 983  | AD553387 | 35   | 988  | AD574477 | 35 | 981 |
| 87846 | 17   | 694  | 89143 | 8    | 355  | 89179 | 35   | 984  | 89216 | 35   | 982  | 90313 | 2    | 124  | AD361397 | 35   | 983  | AD553397 | 35   | 988  | AD574487 | 8  | 354 |
| 87847 | 17   | 694  | 89143 | 35   | 982  | 89180 | 8    | 355  | 89216 | 35   | 984  | 90314 | 2    | 124  | AD361407 | 35   | 983  | AD553407 | 35   | 988  | AD574487 | 35 | 981 |
| 87850 | 19   | 724  | 89143 | 35   | 984  | 89180 | 35   | 982  | 89217 | 8    | 355  | 90315 | 2    | 124  | AD361417 | 35   | 983  | AD553417 | 35   | 988  | AD574497 | 8  | 354 |
| 87852 | 19   | 724  | 89144 | 8    | 355  | 89180 | 35   | 984  | 89217 | 35   | 982  | 90316 | 2    | 124  | AD361427 | 35   | 983  | AD553427 | 35   | 989  | AD574497 | 35 | 981 |
| 87853 | 19   | 724  | 89144 | 35   | 982  | 89181 | 8    | 355  | 89217 | 35   | 984  | 90320 | 43   | 1354 | AD361437 | 35   | 983  | AD553457 | 35   | 989  | AD574507 | 8  | 354 |
| 87855 | 19   | 724  | 89144 | 35   | 984  | 89181 | 35   | 982  | 89218 | 8    | 355  | 90321 | 43   | 1354 | AD361447 | 35   | 983  | AD553467 | 35   | 989  | AD574507 | 35 | 981 |
| 87856 | 19   | 727  | 89145 | 8    | 355  | 89181 | 35   | 984  | 89218 | 35   | 982  | 90322 | 43   | 1354 | AD361457 | 35   | 983  | AD553477 | 35   | 989  | AD574517 | 8  | 354 |
| 87857 | 19   | 727  | 89145 | 35   | 982  | 89182 | 8    | 355  | 89219 | 8    | 355  | 90323 | 43   | 1354 | AD361467 | 35   | 983  | AD553487 | 35   | 989  | AD574517 | 35 | 981 |
| 87858 | 19   | 727  | 89145 | 35   | 984  | 89182 | 35   | 982  | 89219 | 35   | 982  | 90324 | 43   | 1354 | AD361507 | 35   | 983  | AD553497 | 35   | 989  | AD574527 | 8  | 354 |
| 87859 | 19   | 727  | 89146 | 35   | 984  | 89182 | 35   | 984  | 89219 | 35   | 984  | 90325 | 43   | 1354 | AD361517 | 35   | 983  | AD553527 | 35   | 989  | AD574527 | 35 | 981 |
| 87860 | 19   | 728  | 89147 | 35   | 984  | 89187 | 8    | 355  | 89220 | 8    | 355  | 90326 | 43   | 1354 | AD361527 | 35   | 983  | AD553547 | 35   | 989  | AD574537 | 8  | 354 |
| 87861 | 19   | 728  | 89148 | 8    | 355  | 89187 | 35   | 982  | 89220 | 35   | 982  | 90327 | 43   | 1354 | AD361537 | 35   | 983  | AD553557 | 35   | 989  | AD574537 | 35 | 981 |
| 87862 | 19   | 728  | 89148 | 35   | 982  | 89187 | 35   | 984  | 89221 | 8    | 355  | 90328 | 43   | 1354 | AD361547 | 35   | 983  | AD553567 | 35   | 989  | AD574547 | 8  | 354 |
| 87864 | 19   | 728  | 89148 | 35   | 984  | 89188 | 8    | 355  | 89221 | 35   | 982  | 90329 | 43   | 1354 | AD361557 | 35   | 983  | AD553577 | 35   | 989  | AD574547 | 35 | 981 |
| 87865 | 19   | 728  | 89149 | 8    | 355  | 89188 | 35   | 982  | 89222 | 8    | 355  | 90330 | 43   | 1354 | AD361567 | 35   | 983  | AD553587 | 35   | 989  | AD574557 | 8  | 354 |
| 87867 | 19   | 728  | 89149 | 35   | 982  | 89188 | 35   | 984  | 89222 | 35   | 982  | 90331 | 43   | 1353 | AD361577 | 35   | 983  | AD553597 | 35   | 989  | AD574557 | 35 | 981 |
| 87868 | 19   | 728  | 89149 | 35   | 984  | 89189 | 8    | 355  | 89223 | 8    | 355  | 90332 | 43   | 1353 | AD361587 | 35   | 983  | AD553607 | 35   | 989  | AD574567 | 8  | 354 |
| 87938 | 12   | 580  | 89150 | 35   | 984  | 89189 | 35   | 982  | 89223 | 35   | 982  | 90333 | 43   | 1353 | AD361597 | 35   | 983  | AD553617 | 35   | 989  | AD574567 | 35 | 981 |
| 87939 | 12   | 580  | 89151 | 35   | 984  | 89189 | 35   | 984  | 89224 | 8    | 355  | 90334 | 43   | 1353 | AD361607 | 35   | 983  | AD553647 | 35   | 990  | AD574577 | 8  | 354 |
| 87940 | 12   | 590  | 89152 | 8    | 355  | 89190 | 8    | 355  | 89224 | 35   | 982  | 90346 | 43   | 1351 | AD361617 | 35   | 983  | AD553657 | 35   | 990  | AD574577 | 35 | 981 |
| 87941 | 12   | 590  | 89152 | 35   | 982  | 89190 | 35   | 982  | 89225 | 8    | 355  | 90347 | 43   | 1351 | AD361627 | 35   | 983  | AD553687 | 35   | 990  | AD574587 | 8  | 354 |
| 87942 | 12   | 591  | 89152 | 35   | 984  | 89190 | 35   | 984  | 89225 | 35   | 982  | 90349 | 43   | 1352 | AD361637 | 35   | 983  | AD553697 | 35   | 990  | AD574587 | 35 | 981 |
| 87943 | 12   | 591  | 89153 | 8    | 355  | 89191 | 8    | 355  | 89256 | 8    | 355  | 90350 | 43   | 1352 | AD361647 | 35   | 983  | AD553717 | 35   | 991  | AD574597 | 8  | 354 |
| 87944 | 12   | 591  | 89153 | 35   | 982  | 89191 | 35   | 982  | 89256 | 35   | 982  | 90351 | 43   | 1352 | AD361657 | 35   | 983  | AD553737 | 35   | 991  | AD574597 | 35 | 981 |
| 87945 | 12   | 591  | 89153 | 35   | 984  | 89191 | 35   | 984  | 89257 | 8    | 355  | 90352 | 43   | 1352 | AD361667 | 35   | 983  | AD553747 | 35   | 991  | AD574607 | 8  | 354 |
| 87946 | 12   | 594  | 89154 | 8    | 355  | 89192 | 8    | 355  | 89257 | 35   | 982  | 90353 | 43   | 1352 | AD361677 | 35   | 983  | AD553757 | 35   | 991  | AD574607 | 35 | 981 |
| 87947 | 12   | 594  | 89154 | 35   | 982  | 89192 | 35   | 982  | 89285 | 10   | 549  | 90354 | 43   | 1351 | AD361687 | 35   | 983  | AD553767 | 35   | 991  | AD574617 | 8  | 354 |
| 87948 | 12   | 594  | 89154 | 35   | 984  | 89192 | 35   | 984  | 89286 | 10   | 549  | 90355 | 43   | 1351 | AD361697 | 35   | 983  | AD553787 | 35   | 991  | AD574617 | 35 | 981 |
| 87949 | 12   | 594  | 89155 | 8    | 355  | 89193 | 8    | 355  | 89287 | 10   | 549  | 90356 | 43   | 1351 | AD361707 | 35   | 983  | AD553797 | 35   | 991  | AD574627 | 8  | 354 |
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| 87951 | 12   |      |       |      |      |       |      |      |       |      |      |       |      |      |          |      |      |          |      |      |          |    |     |



| COD.     | CAP. | PAG. | COD.     | CAP. | PAG. | COD.     | CAP. | PAG. | COD.     | CAP. | PAG. |
|----------|------|------|----------|------|------|----------|------|------|----------|------|------|
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| AD731207 | 35   | 1008 | AD746667 | 35   | 1012 | AD766007 | 35   | 1003 | AD793877 | 35   | 1009 |
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| AD731257 | 35   | 1008 | AD747027 | 35   | 1012 | AD766097 | 35   | 1003 | AD794727 | 35   | 1007 |
| AD731267 | 35   | 1008 | AD747037 | 35   | 1012 | AD766117 | 35   | 1003 |          |      |      |
| AD731277 | 35   | 1008 | AD747047 | 35   | 1012 | AD766127 | 35   | 1003 |          |      |      |
| AD731287 | 35   | 1008 | AD747057 | 35   | 1012 | AD766137 | 35   | 1003 |          |      |      |
| AD731297 | 35   | 1008 | AD747067 | 35   | 1012 | AD766147 | 35   | 1003 |          |      |      |
| AD731307 | 35   | 1008 | AD747077 | 35   | 1012 | AD766157 | 35   | 1003 |          |      |      |
| AD731317 | 35   | 1008 | AD747087 | 35   | 1012 | AD766167 | 35   | 1004 |          |      |      |
| AD731337 | 35   | 1008 | AD747097 | 35   | 1012 | AD766177 | 35   | 1004 |          |      |      |
| AD731347 | 35   | 1008 | AD747107 | 35   | 1011 | AD766187 | 35   | 1004 |          |      |      |
| AD731357 | 35   | 1008 | AD747117 | 35   | 1011 | AD766197 | 35   | 1004 |          |      |      |
| AD731367 | 35   | 1008 | AD747127 | 35   | 1011 | AD766207 | 35   | 1010 |          |      |      |
| AD731457 | 35   | 1008 | AD747137 | 35   | 1011 | AD766217 | 35   | 1010 |          |      |      |
| AD731477 | 35   | 1008 | AD747147 | 35   | 1011 | AD766227 | 35   | 1010 |          |      |      |
| AD731507 | 35   | 1008 | AD747157 | 35   | 1011 | AD766237 | 35   | 1010 |          |      |      |
| AD731527 | 35   | 1008 | AD749847 | 35   | 1012 | AD766247 | 35   | 1010 |          |      |      |
| AD731607 | 35   | 1008 | AD749857 | 35   | 1012 | AD766257 | 35   | 1010 |          |      |      |
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| AD731727 | 35   | 1009 | AD749887 | 35   | 1012 | AD766287 | 35   | 1010 |          |      |      |
| AD731737 | 35   | 1009 | AD749897 | 35   | 1012 | AD766297 | 35   | 1010 |          |      |      |
| AD731747 | 35   | 1009 | AD750377 | 35   | 1011 | AD766307 | 35   | 1010 |          |      |      |
| AD731757 | 35   | 1009 | AD750387 | 35   | 1011 | AD766317 | 35   | 1010 |          |      |      |
| AD731767 | 35   | 1009 | AD750397 | 35   | 1011 | AD766327 | 35   | 1010 |          |      |      |
| AD731777 | 35   | 1009 | AD750407 | 35   | 1011 | AD766337 | 35   | 1011 |          |      |      |
| AD731787 | 35   | 1009 | AD750417 | 35   | 1011 | AD766347 | 35   | 1011 |          |      |      |
| AD731797 | 35   | 1009 | AD750427 | 35   | 1011 | AD766357 | 35   | 1011 |          |      |      |
| AD731807 | 35   | 1009 | AD750437 | 35   | 1011 | AD766367 | 35   | 1011 |          |      |      |
| AD731817 | 35   | 1009 | AD750447 | 35   | 1011 | AD766377 | 35   | 1011 |          |      |      |
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| AD731857 | 35   | 1009 | AD750487 | 35   | 1011 | AD766417 | 35   | 1011 |          |      |      |
| AD731867 | 35   | 1009 | AD750497 | 35   | 1011 | AD766427 | 35   | 1011 |          |      |      |
| AD731877 | 35   | 1009 | AD750637 | 35   | 1010 | AD766437 | 35   | 1011 |          |      |      |
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| AD731897 | 35   | 1008 | AD750657 | 35   | 1010 | AD766457 | 35   | 1011 |          |      |      |
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| AD732007 | 35   | 1008 | AD750837 | 35   | 1011 | AD766517 | 35   | 1012 |          |      |      |
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| AD732077 | 35   | 1009 | AD751567 | 35   | 1013 | AD766587 | 35   | 1013 |          |      |      |
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| AD732107 | 35   | 1009 | AD751597 | 35   | 1013 | AD766617 | 35   | 1013 |          |      |      |
| AD732117 | 35   | 1009 | AD751727 | 35   | 1012 | AD766627 | 35   | 1013 |          |      |      |
| AD732127 | 35   | 1009 | AD751747 | 35   | 1012 | AD767307 | 35   | 1012 |          |      |      |
| AD732137 | 35   | 1009 | AD751757 | 35   | 1012 | AD767317 | 35   | 1012 |          |      |      |
| AD732147 | 35   | 1009 | AD751767 | 35   | 1012 | AD767327 | 35   | 1012 |          |      |      |
| AD732157 | 35   | 1009 | AD751777 | 35   | 1012 | AD767337 | 35   | 1012 |          |      |      |
| AD732167 | 35   | 1009 | AD751787 | 35   | 1012 | AD767357 | 35   | 1013 |          |      |      |
| AD732177 | 35   | 1009 | AD751797 | 35   | 1012 | AD767367 | 35   | 1013 |          |      |      |
| AD732187 | 35   | 1009 | AD752017 | 35   | 1013 | AD767387 | 35   | 1010 |          |      |      |
| AD732197 | 35   | 1009 | AD752027 | 35   | 1013 | AD767587 | 35   | 1006 |          |      |      |
| AD732207 | 35   | 1009 | AD752037 | 35   | 1013 | AD767597 | 35   | 1006 |          |      |      |
| AD732217 | 35   | 1009 | AD761457 | 35   | 1006 | AD767607 | 35   | 1006 |          |      |      |
| AD732227 | 35   | 1009 | AD761477 | 35   | 1005 | AD767617 | 35   | 1006 |          |      |      |
| AD732237 | 35   | 1009 | AD765507 | 35   | 1006 | AD767627 | 35   | 1006 |          |      |      |
| AD732247 | 35   | 1009 | AD765517 | 35   | 1006 | AD790577 | 35   | 1005 |          |      |      |
| AD732257 | 35   | 1009 | AD765527 | 35   | 1006 | AD790587 | 35   | 1005 |          |      |      |
| AD732267 | 35   | 1009 | AD765537 | 35   | 1006 | AD790597 | 35   | 1005 |          |      |      |
| AD732487 | 35   | 1004 | AD765547 | 35   | 1006 | AD791637 | 35   | 1010 |          |      |      |
| AD732497 | 35   | 1004 | AD765557 | 35   | 1006 | AD791647 | 35   | 1010 |          |      |      |
| AD732577 | 35   | 1004 | AD765567 | 35   | 1006 | AD791657 | 35   | 1011 |          |      |      |
| AD733477 | 35   | 1008 | AD765577 | 35   | 1006 | AD791667 | 35   | 1011 |          |      |      |
| AD733487 | 35   | 1008 | AD765787 | 35   | 1007 | AD793707 | 35   | 1009 |          |      |      |
| AD733497 | 35   | 1008 | AD765807 | 35   | 1007 | AD793717 | 35   | 1009 |          |      |      |
| AD733507 | 35   | 1008 | AD765817 | 35   | 1007 | AD793727 | 35   | 1009 |          |      |      |
| AD733517 | 35   | 1008 | AD765827 | 35   | 1002 | AD793737 | 35   | 1009 |          |      |      |
| AD733527 | 35   | 1008 | AD765837 | 35   | 1002 | AD793747 | 35   | 1009 |          |      |      |
| AD733537 | 35   | 1008 | AD765847 | 35   | 1002 | AD793757 | 35   | 1009 |          |      |      |
| AD733547 | 35   | 1008 | AD765897 | 35   | 1002 | AD793767 | 35   | 1009 |          |      |      |
| AD733557 | 35   | 1008 | AD765907 | 35   | 1002 | AD793777 | 35   | 1009 |          |      |      |
| AD733567 | 35   | 1008 | AD765917 | 35   | 1002 | AD793787 | 35   | 1009 |          |      |      |
| AD733577 | 35   | 1008 | AD765927 | 35   | 1002 | AD793797 | 35   | 1009 |          |      |      |
| AD733587 | 35   | 1008 | AD765937 | 35   | 1002 | AD793807 | 35   | 1009 |          |      |      |

## RECOMENDACIONES DE USO

## RECOMMENDATIONS FOR USE

## RECOMMENDATIONS D'UTILISATION

Para el correcto uso de la herramienta y la seguridad del operario

*For the correct use of the tool and the safety of the user*

Pour un usage correct de l'outil et la sécurité de l'opérateur



POZIDRIV PZ



PHILIPS PH

### CONSECUENCIAS DE UNA INCORRECTA UTILIZACIÓN

#### CONSEQUENCES OF IMPROPER USE

#### CONSEQUENCE D'UNE UTILISATION INCORRECTE

Herramientas inadecuadas, zonas de contacto reducidas...

*Inadequate tools, insufficient contact surface...*

Outils inadéquats, zone de contact réduite...



... Resultado:  
puntas desgastadas, aristas partidas, cabezas de tornillo deterioradas, etc.

... Results:  
worn out tips, broken edges, damaged screw heads.

... Résultat:  
pointes usées, arêtes rompues, têtes de tournevis détériorées, etc.

Utilizar las herramientas para el trabajo que han sido diseñadas para que éstas cumplan su objetivo específico, teniendo así la calidad y el resultado deseado.

*Use the tools strictly for the purpose that they were designed for. You will thus obtain the perfect desired result.*

Utiliser les outils selon l'utilisation pour laquelle ils ont été dessinés permettra qu'ils réalisent leur objectif spécifique, avec la qualité et le résultat souhaité.

## INSTRUCCIONES DE USO Y GARANTÍA DE HERRAMIENTAS ANTICHISPA

### NON-SPARKING TOOLS INSTRUCTIONS FOR USE AND WARRANTY

### INSTRUCTIONS D'UTILISATIONS ET GARANTIE DE L'OUTIL ANTIDÉFLAGRANT

- 1 Las herramientas antichispa no pueden alcanzar la dureza de las herramientas convencionales. Por esta razón en su uso se debe tener un especial cuidado, sin sobreesfuerzos ni alta temperatura.
- 2 Si en toda llave/destornillador es imperativo emplear la medida correspondiente a la tuerca o tornillo, en el caso de las antichispa lo es aún con más razón, ya que si se usara indebidamente una de distinto tamaño al preceptivo, el efecto cizalla que se causaría propiciaría su deterioro.
- 3 El uso de herramientas antichispa no debe ser la única medida preventiva en áreas en las que se ha diseñado para ello. Otros objetos, como ropa o material presencial, deben también ser adecuadas para aplicaciones antichispa.

- 1 *Non-Sparking Tools cannot reach the hardness of conventional tools. For this reason the use of Non-Sparking Tools has to be carried out with special care, avoiding overstraining, heating, etc.*
- 2 *To avoid damage being caused to both tool and fastener, it is necessary to always ensure that the correctly sized spanner/wrench/screwdriver is selected. Due to the reduced strength and wear resistance of Non-Sparking Alloys selecting the correctly sized tool becomes essential to avoid premature wear and early deterioration of the tool.*
- 3 *The use of Non-Sparking Tools must not be the only preventive measure in areas which the items are designed for. Other items, clothes or present material must also be adequate for non-sparking purposes.*

- 1 L'outillage anti-déflagrant ne peut avoir la même dureté que l'outillage traditionnel. Pour cela, il requiert une attention spéciale, en évitant la surcharge, la chaleur...
- 2 S'il est impératif dans tous tournevis/clés d'employer la dimension correspondante à l'écrou ou à la vis, il est encore plus vital dans le cas de l'anti-déflagrant, puisque s'il s'utilise de façon incorrecte la dimension obligatoire, l'effet cisaille causé favorisera sa détérioration.
- 3 L'utilisation d'outillage anti-déflagrant ne doit pas être le Seul moyen de prévention dans les environnements pour lequel il est conçu. D'autres objets, comme les vêtements et matériaux présents doivent aussi être adaptés aux applications anti-déflagrantes.



# RECOMENDACIONES DE USO

## RECOMMENDATIONS FOR USE

### RECOMMANDATIONS D'UTILISATION

Para el correcto uso de la herramienta y la seguridad del operario  
*For the correct use of the tool and the safety of the user*  
Pour un usage correct de l'outil et la sécurité de l'opérateur

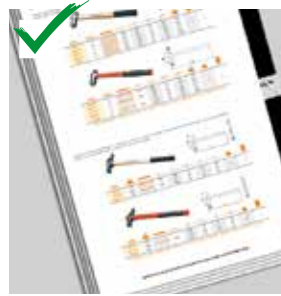
#### UTILIZACIÓN CORRECTA / CORRECT USE / UTILISATION CORRECTE



La medida nominal de la herramienta de maniobra debe corresponder con la medida nominal de la pieza a maniobrar.

*The nominal size of the tool must correspond to the nominal size of the part on which the tool will be applied.*

La mesure nominale de l'outil de manoeuvre doit correspondre avec la mesure nominale de la pièce à manoeuvrer.



Informarse de las condiciones y limitaciones del uso de cada herramienta.

*Learn the uses and limitations of each tool.*

S'informer des conditions et des limites d'usage de chaque outil.



Comprobar el estado de desgaste de las herramientas y cambiar las que están deterioradas.

*Check frequently the state of the tool and replace those that are worn out or damaged.*

Vérifier l'état d'usure des outils et changer ceux qui sont détériorés.



Cuando la herramienta es de percusión, asegurarse que la superficie de percusión sea mayor que la superficie percutida.

*With striking tools make sure that the striking surface is bigger than the surface struck.*

Quand l'outil est de percussion, s'assurer que la superficie de percussion soit supérieure à la superficie percutée.



Asegurarse de emplear el destornillador que corresponde a la medida del tornillo y de que la punta de este esté correctamente colocada en la cabeza del mismo.

*Please make sure that the screwdriver you are using corresponds to the size of the screw and that the tip is correctly positioned on the head.*

S'assurer d'utiliser le tournevis qui correspond à la dimension de la vis et que la pointe de celui-ci soit correctement placée sur la tête de la vis.



Utilizar los equipos de protección individual, cuando las condiciones laborales lo requieran.

*Use safety equipment when appropriate.*

Utiliser les équipements de protection individuelle quand les conditions de travail l'exigent.



Antes de desplazar los carros porta herramientas se deben cerrar las puertas, los cajones y otras piezas corredizas.

*Before moving roller cabinets always close all trays, drawers and doors.*

Avant de déplacer les chariots porte-outils, les portes, tiroirs et autres éléments coulissants doivent être fermés.



Accionar el freno del carro porta herramienta una vez alcanzada la posición de trabajo deseada.

*Once you reach the intended location for the roller cabinets put on the break.*

Actionner le frein du chariot porte-outils une fois atteint la position de travail désirée.

# RECOMENDACIONES DE USO

## RECOMMENDATIONS FOR USE

### RECOMMANDATIONS D'UTILISATION

Para el correcto uso de la herramienta y la seguridad del operario  
*For the correct use of the tool and the safety of the user*  
 Pour un usage correct de l'outil et la sécurité de l'opérateur

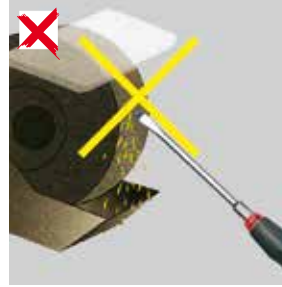
#### UTILIZACIÓN INCORRECTA / INCORRECT USE / UTILISATION INCORRECTE



**No utilizar como palanca herramientas que no se han diseñado para tal uso, como, por ejemplo, destornilladores, cortafrios, punzones, etc.**

*Do not use for leverage tools that have not been designed for that purpose, such as screwdrivers, chisels, punches, etc.*

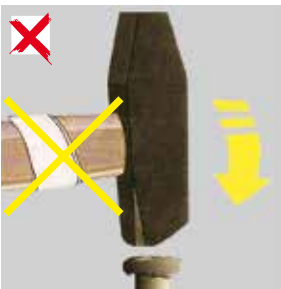
Ne pas utiliser comme levier des outils qui n'aient pas été dessinés pour cet usage comme par exemple des tournevis, ciseaux, pointeaux ...



**No modificar estructuralmente la herramienta.**

*Do not modify the structure of the tool.*

Ne pas modifier l'outil au niveau de la structure.



**No utilizar herramientas deterioradas.**

*Do not use worn out or damaged tools.*

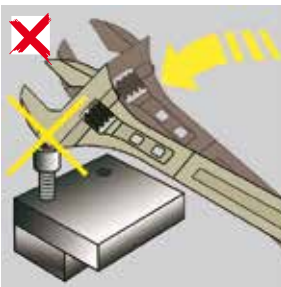
Ne pas utiliser d'outils deteriorés.



**Con el objeto de aumentar la fuerza transmitida, no percutir herramientas que no se han diseñado para ese uso.**

*Do not strike tools not designed for such purpose, trying to get higher transmitted force.*

Dans l'optique d'augmenter la force transmise, ne pas percuter des outils qui n'aient pas été dessinés pour cet usage.



**No utilizar para golpear ninguna herramienta que no haya sido diseñada para tal uso.**

*Do not use for striking purposes tools that have not been designed for that.*

Ne pas utiliser pour frapper, des outils qui n'aient pas été dessinés pour cet usage.



**No utilizar alargaderas o prolongadores para aumentar el par transmitido por la herramienta en uso.**

*Do not use extensions to increase the torque of the tool in use.*

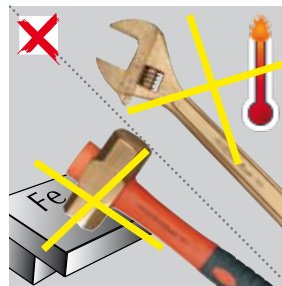
Ne pas utiliser de rallonges ou de prolongateurs pour augmenter le couple transmis par l'outil utilisé.



**En caso de carros porta herramientas, no abrir más de un cajón al mismo tiempo.**

*Do not open at once more than one drawer of the roller cabinet.*

En cas d'utilisation de chariot porte-outils, ne pas ouvrir plus d'un tiroir en même temps.



**Las herramientas antichispa no pueden alcanzar la dureza de las herramientas convencionales. Por eso hay que evitar sobrecargas y alta temperatura.**

*Non-Sparking Tools cannot reach the hardness of conventional tools. So you have to avoid overloads and high temperature.*

L'outillage anti-déflagrant ne peut pas avoir la même dureté que l'outillage traditionnel. Donc, vous devez éviter les surcharges et la haute température.

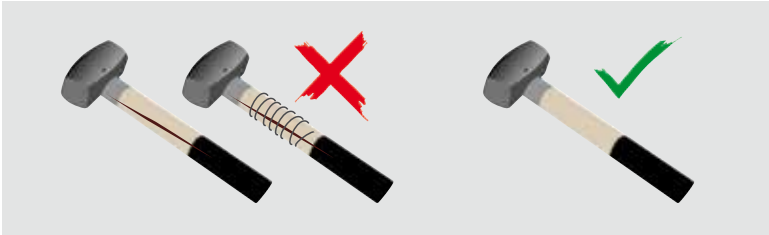
# RECOMENDACIONES DE USO PARA MARTILLOS

## RECOMMENDATIONS FOR USE OF HAMMERS

### RECOMMANDATIONS D'UTILISATION POUR LES MARTEAUX

#### MEDIDAS PREVENTIVAS - Inspección y recomendaciones de uso PRECAUTIONARY MEASURES - Inspection and recommendations for use MESURES PRÉVENTIVES - Inspection et recommandations d'utilisation

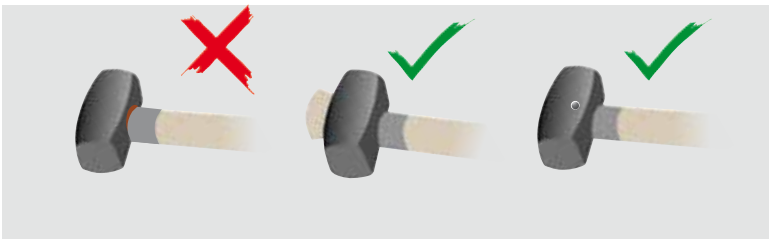
##### INSPECCIÓN / INSPECTION / INSPECTION



No utilizar un martillo con el mango deteriorado o reforzado con cuerdas o alambres.

*Do not use a hammer with a damaged handle or reinforced with ropes or wires.*

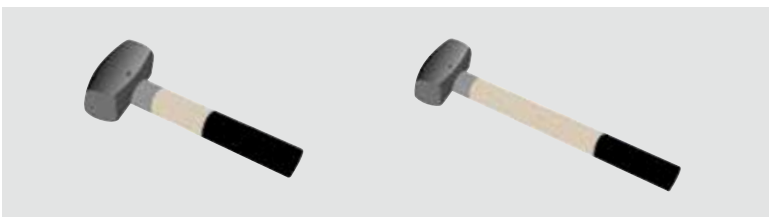
N'utilisez pas de marteau dont la poignée est endommagée ou renforcée par des cordes ou des fils.



Antes de utilizar un martillo asegurarse que el mango está perfectamente unido a la cabeza. En mango cónico, cabeza bien encastrada; en resto, resina, cuña y pasador en buen estado. En aquellos que incorporen pasador de seguridad, su función es que cuando la cabeza pierda sujeción, no salga despedida. Su función no es seguir trabajando con ella. En cuanto se note la holgura en la cabeza, se debe descartar su uso.

*Before using a hammer, make sure that the handle is perfectly attached to the head. In conical shank, well set head; in rest, resin, wedge and pin in good condition. In those that incorporate a safety pin, its function is that when the head loses its grip, it does not fly off. Your role is not to continue working with her. As soon as the slack in the head is noticed, its use should be discarded.*

Avant d'utiliser un marteau, assurez-vous que la poignée est parfaitement attachée à la tête. En tige conique, tête bien fixée; au repos, résine, cale et épingle en bon état. Dans ceux qui intègrent une goupille de sécurité, sa fonction est que lorsque la tête perd sa prise, elle ne s'envole pas. Votre rôle n'est pas de continuer à travailler avec elle. Dès que le mou dans la tête est remarqué, son utilisation doit être écartée.



Seleccionar un martillo de tamaño y dureza adecuados para cada una de las superficies a golpear.

*Select a hammer of suitable size and hardness for each of the surfaces to be struck.*

Sélectionnez un marteau de taille et de dureté appropriées pour chacune des surfaces à frapper.



No utilizar martillos con la cabeza floja, cuña suelta o resina dañada.

*Do not use hammers with a loose head, loose wedge, or damaged resin.*

N'utilisez pas de marteaux avec une tête lâche, une cale lâche ou une résine endommagée.

# RECOMENDACIONES DE USO PARA MARTILLOS

## RECOMMENDATIONS FOR USE OF HAMMERS

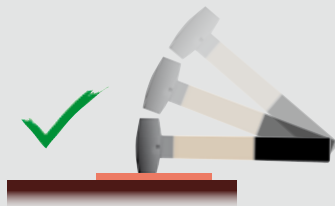
## RECOMMANDATIONS D'UTILISATION POUR LES MARTEAUX



Utilizar gafas de seguridad homologadas.  
*Use approved safety glasses.*  
Utilisez des lunettes de sécurité approuvées.



### RECOMENDACIONES DE USO / RECOMMENDATIONS FOR USE / RECOMMANDATIONS D'UTILISATION



**Observar que la pieza a golpear se apoya sobre una base sólida para evitar rebotes. Procurar golpear sobre la superficie de impacto con toda la cara del martillo.**

*Note that the piece to be hit rests on a solid base to avoid rebounding. Try to hit the impact surface with the entire face of the hammer.*

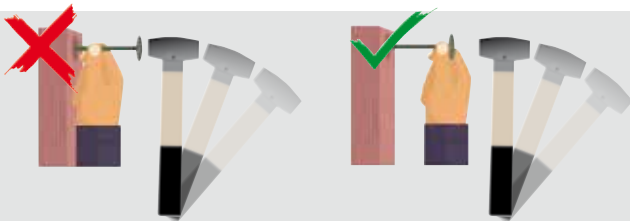
*Notez que la pièce à frapper repose sur une base solide pour éviter les rebonds. Essayez de frapper la surface d'impact avec toute la face du marteau.*



**Sujetar el mango por el extremo en todo su perímetro.**

*Hold the handle by the end around its entire perimeter.*

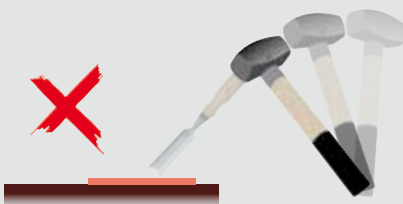
*Tenez la poignée par l'extrémité sur tout son périmètre.*



**En el caso de tener que golpear clavos, éstos se deben sujetar por la cabeza y no por el extremo.**

*In the case of having to strike nails, they must be held by the head and not by the end.*

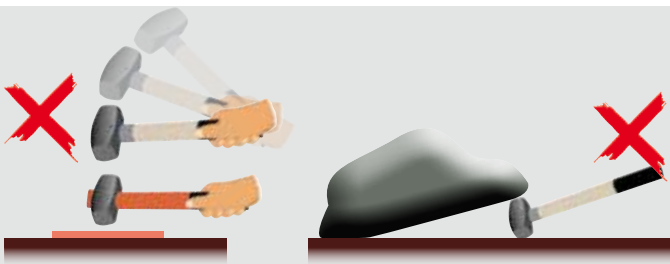
*Dans le cas où il faut frapper des clous, ils doivent être tenus par la tête et non par la fin.*



**No golpear con el lateral de la cabeza del martillo.**

*Do not hit with the side of the hammer head.*

*Ne frappez pas avec le côté de la tête du marteau.*



**No utilizar un martillo para golpear otro, otra herramienta auxiliar, o como palanca.**

*Do not use a hammer to strike another, another auxiliary tool, or as a lever.*

*N'utilisez pas de marteau pour frapper un autre, un autre outil auxiliaire ou comme levier.*

## EQUIVALENCIAS

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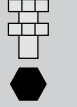
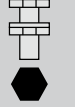







| Tamaño de la boca<br>Size of the jaws<br>Dimension de la bouche |                              | Llave<br>Wrench<br>Clé                                                             |                                                                                   |                                     | Tuerca o perno común<br>Nut or bolt common<br>Écrou ou boulon basique |
|-----------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------------------------------|
| mm                                                              | Pulgadas<br>Inches<br>Pouces | Métrica<br>Metric<br>Métrique<br>AF:<br>Entre caras<br>Across flats<br>Entre têtes | Pulgadas<br>Inches<br>Pouces<br>AF:<br>Entre caras<br>Across flats<br>Entre têtes | Británica<br>British<br>Britannique | (* No recomendados)<br>(* Non recommended)<br>(* Non recommandés)     |
| 2,97                                                            | 0,117                        |                                                                                    |                                                                                   | 10BA                                |                                                                       |
| 3,2                                                             | 0,126                        | 3,2 mm                                                                             |                                                                                   |                                     | M1.6                                                                  |
| 3,33                                                            | 0,131                        |                                                                                    |                                                                                   | 9BA                                 |                                                                       |
| 3,86                                                            | 0,152                        |                                                                                    |                                                                                   | 8BA                                 |                                                                       |
| 3,97                                                            | 0,156                        |                                                                                    | 5/32 AF                                                                           |                                     | Nº 0 UNC                                                              |
| 4                                                               | 0,157                        | 4 mm                                                                               |                                                                                   |                                     | M2                                                                    |
| 4,37                                                            | 0,172                        |                                                                                    |                                                                                   | 7BA                                 |                                                                       |
| 4,76                                                            | 0,188                        |                                                                                    | 3/16 AF                                                                           |                                     | Nº 2 UNC                                                              |
| 4,9                                                             | 0,193                        |                                                                                    |                                                                                   | 6BA                                 |                                                                       |
| 5                                                               | 0,197                        | 5 mm                                                                               |                                                                                   |                                     | M2.5                                                                  |
| 5,5                                                             | 0,217                        | 5,5 mm                                                                             |                                                                                   |                                     | M3                                                                    |
| 5,56                                                            | 0,219                        |                                                                                    | 7/32 AF                                                                           |                                     |                                                                       |
| 5,59                                                            | 0,22                         |                                                                                    |                                                                                   | 5BA                                 |                                                                       |
| 5,95                                                            | 0,234                        |                                                                                    | 15/64 AF                                                                          |                                     |                                                                       |
| 6                                                               | 0,236                        | 6 mm                                                                               |                                                                                   |                                     | M3.5*                                                                 |
| 6,3                                                             | 0,248                        |                                                                                    |                                                                                   | 4BA                                 |                                                                       |
| 6,35                                                            | 0,25                         |                                                                                    | 1/4 AF                                                                            |                                     | Nº 4 UNC                                                              |
| 7                                                               | 0,276                        | 7 mm                                                                               |                                                                                   |                                     | M4                                                                    |
| 7,14                                                            | 0,281                        |                                                                                    | 9/32 AF                                                                           |                                     |                                                                       |
| 7,16                                                            | 0,282                        |                                                                                    |                                                                                   | 3BA                                 |                                                                       |
| 7,94                                                            | 0,313                        |                                                                                    | 5/16 AF                                                                           |                                     | Nº 6 y Nº 10 UNC UNC<br>(perno / bolt / boulon)                       |
| 8                                                               | 0,315                        | 8 mm                                                                               |                                                                                   |                                     | M5                                                                    |
| 8,23                                                            | 0,324                        |                                                                                    |                                                                                   | 2BA                                 |                                                                       |
| 8,59                                                            | 0,338                        |                                                                                    |                                                                                   | 1/8 W; 3/16 BSF                     |                                                                       |
| 8,73                                                            | 0,344                        |                                                                                    | 11/32 AF                                                                          |                                     | Nº 8 UNC                                                              |
| 9                                                               | 0,354                        | 9 mm                                                                               |                                                                                   |                                     |                                                                       |
| 9,27                                                            | 0,365                        |                                                                                    |                                                                                   | 1BA                                 |                                                                       |
| 9,53                                                            | 0,375                        |                                                                                    | 3/8 AF                                                                            |                                     | Nº 10 UNC<br>(tuerca / nut / écrou)                                   |
| 10                                                              | 0,394                        | 10 mm                                                                              |                                                                                   |                                     | M6                                                                    |
| 10,49                                                           | 0,413                        |                                                                                    |                                                                                   | 0BA                                 |                                                                       |
| 11                                                              | 0,433                        | 11 mm                                                                              |                                                                                   |                                     | M7*                                                                   |
| 11,11                                                           | 0,438                        |                                                                                    | 7/16 AF                                                                           |                                     | 1/4 UNF                                                               |
| 11,3                                                            | 0,445                        |                                                                                    |                                                                                   | 3/16 W; 1/4 BSF                     |                                                                       |
| 12                                                              | 0,472                        | 12 mm                                                                              |                                                                                   |                                     |                                                                       |
| 12,7                                                            | 0,5                          |                                                                                    | 1/2 AF                                                                            |                                     | 5/16 UNF                                                              |
| 13                                                              | 0,512                        | 13 mm                                                                              |                                                                                   |                                     | M8                                                                    |
| 13,34                                                           | 0,525                        |                                                                                    |                                                                                   | 1/4 W; 5/16 BSF                     |                                                                       |
| 14                                                              | 0,551                        | 14 mm                                                                              |                                                                                   |                                     |                                                                       |
| 14,29                                                           | 0,563                        |                                                                                    | 9/16 AF                                                                           |                                     | 3/8 UNF                                                               |
| 15                                                              | 0,591                        | 15 mm                                                                              |                                                                                   |                                     |                                                                       |
| 15,24                                                           | 0,6                          |                                                                                    |                                                                                   | 5/16 W; 3/8 BSF                     |                                                                       |
| 15,88                                                           | 0,625                        |                                                                                    | 5/8 AF                                                                            |                                     | 7/16 UNF<br>(perno / bolt / boulon)                                   |
| 16                                                              | 0,63                         | 16 mm                                                                              |                                                                                   |                                     |                                                                       |
| 17                                                              | 0,669                        | 17 mm                                                                              |                                                                                   |                                     | M10                                                                   |
| 17,46                                                           | 0,688                        |                                                                                    | 11/16 AF                                                                          |                                     | 7/16 UNF<br>(tuerca / nut / écrou)                                    |
| 18                                                              | 0,709                        | 18 mm                                                                              |                                                                                   |                                     |                                                                       |
| 18,03                                                           | 0,71                         |                                                                                    |                                                                                   | 3/8 W; 7/16 BSF                     |                                                                       |
| 19                                                              | 0,748                        | 19 mm                                                                              |                                                                                   |                                     | M12                                                                   |
| 19,05                                                           | 0,75                         |                                                                                    | 3/4 AF                                                                            |                                     | 1/2 UNF                                                               |

| Tamaño de la boca<br>Size of the jaws<br>Dimension de la bouche |                              | Llave<br>Wrench<br>Clé                                                             |                                                                                   |                                     | Tuerca o perno común<br>Nut or bolt common<br>Écrou ou boulon basique |
|-----------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------------------------------|
| mm                                                              | Pulgadas<br>Inches<br>Pouces | Métrica<br>Metric<br>Métrique<br>AF:<br>Entre caras<br>Across flats<br>Entre têtes | Pulgadas<br>Inches<br>Pouces<br>AF:<br>Entre caras<br>Across flats<br>Entre têtes | Británica<br>British<br>Britannique | (* No recomendados)<br>(* Non recommended)<br>(* Non recommandés)     |
| 20                                                              | 0,787                        | 20 mm                                                                              |                                                                                   |                                     |                                                                       |
| 20,64                                                           | 0,813                        |                                                                                    |                                                                                   | 13/16 AF                            | 9/16 UNF<br>(perno / bolt / boulon)                                   |
| 20,83                                                           | 0,82                         |                                                                                    |                                                                                   | 7/16 W; 1/2 BSF                     |                                                                       |
| 21                                                              | 0,827                        | 21 mm                                                                              |                                                                                   |                                     |                                                                       |
| 22                                                              | 0,866                        | 22 mm                                                                              |                                                                                   |                                     | M14*                                                                  |
| 22,23                                                           | 0,875                        |                                                                                    |                                                                                   | 7/8 AF                              | 9/16 UNF<br>(tuerca / nut / écrou)                                    |
| 23                                                              | 0,906                        | 23 mm                                                                              |                                                                                   |                                     |                                                                       |
| 23,37                                                           | 0,92                         |                                                                                    |                                                                                   | 1/2 W; 9/16 BSF                     |                                                                       |
| 23,81                                                           | 0,938                        |                                                                                    |                                                                                   | 15/16 AF                            | 5/8 UNF                                                               |
| 24                                                              | 0,945                        | 24 mm                                                                              |                                                                                   |                                     | M16                                                                   |
| 25                                                              | 0,984                        | 25 mm                                                                              |                                                                                   |                                     |                                                                       |
| 25,4                                                            | 1                            |                                                                                    |                                                                                   | 1 AF                                |                                                                       |
| 25,65                                                           | 1,01                         |                                                                                    |                                                                                   | 9/16 W; 5/8 BSF                     |                                                                       |
| 26                                                              | 1,024                        | 26 mm                                                                              |                                                                                   |                                     |                                                                       |
| 26,99                                                           | 1,063                        |                                                                                    |                                                                                   | 1-1/16 de AF                        |                                                                       |
| 27                                                              | 1,063                        | 27 mm                                                                              |                                                                                   |                                     | M18*                                                                  |
| 27,94                                                           | 1,1                          |                                                                                    |                                                                                   | 5/8 W; 11/16 BSF                    |                                                                       |
| 28                                                              | 1,102                        | 28 mm                                                                              |                                                                                   |                                     |                                                                       |
| 28,58                                                           | 1,125                        |                                                                                    |                                                                                   | 1-1/8 AF                            | 3/4 UNF                                                               |
| 30                                                              | 1,181                        | 30 mm                                                                              |                                                                                   |                                     | M20                                                                   |
| 30,48                                                           | 1,2                          |                                                                                    |                                                                                   | 11/16 W; 3/4 BSF                    |                                                                       |
| 31,75                                                           | 1,25                         |                                                                                    |                                                                                   | 1-1/4 AF                            |                                                                       |
| 32                                                              | 1,26                         | 32 mm                                                                              |                                                                                   |                                     | M22*                                                                  |
| 33,02                                                           | 1,3                          |                                                                                    |                                                                                   | 3/4 W; 7/8 BSF                      |                                                                       |
| 33,34                                                           | 1,313                        |                                                                                    |                                                                                   | 1-5/16 de AF                        | 7/8 UNF                                                               |
| 34                                                              | 1,339                        | 34 mm                                                                              |                                                                                   |                                     |                                                                       |
| 35,31                                                           | 1,39                         |                                                                                    |                                                                                   | 13/16 W                             |                                                                       |
| 36                                                              | 1,417                        | 36 mm                                                                              |                                                                                   |                                     | M24                                                                   |
| 36,51                                                           | 1,438                        |                                                                                    |                                                                                   | 1-7/16 de AF                        |                                                                       |
| 37,59                                                           | 1,48                         |                                                                                    |                                                                                   | 7/8 W; 1 BSF                        |                                                                       |
| 38                                                              | 1,496                        | 38 mm                                                                              |                                                                                   |                                     |                                                                       |
| 38,1                                                            | 1,5                          |                                                                                    |                                                                                   | 1-1/2 AF                            | 1 UNF                                                                 |
| 40,13                                                           | 1,58                         |                                                                                    |                                                                                   | 15/16 W                             |                                                                       |
| 41                                                              | 1,614                        | 41 mm                                                                              |                                                                                   |                                     | M27*                                                                  |
| 41,28                                                           | 1,625                        |                                                                                    |                                                                                   | 1-5/8 AF                            |                                                                       |
| 42,42                                                           | 1,67                         |                                                                                    |                                                                                   | 1 W; 1-1/8 BSF                      |                                                                       |
| 42,86                                                           | 1,688                        |                                                                                    |                                                                                   | 1-11/16 AF                          | 1-1/8 UNF                                                             |
| 46                                                              | 1,811                        | 46 mm                                                                              |                                                                                   |                                     | M30                                                                   |
| 46,04                                                           | 1,813                        |                                                                                    |                                                                                   | 1-13/16 AF                          |                                                                       |
| 47,24                                                           | 1,86                         |                                                                                    |                                                                                   | 1-1/8 W; 1-1/4 BSF                  |                                                                       |
| 47,63                                                           | 1,875                        |                                                                                    |                                                                                   | 1-7/8 AF                            | 1-1/4 UNF                                                             |
| 50                                                              | 1,969                        | 50 mm                                                                              |                                                                                   |                                     | M33*                                                                  |
| 50,8                                                            | 2                            |                                                                                    |                                                                                   | 2 AF                                |                                                                       |
| 52,07                                                           | 2,05                         |                                                                                    |                                                                                   | 1-1/4 W; 1-3/8 BSF                  |                                                                       |
| 52,39                                                           | 2,063                        |                                                                                    |                                                                                   | 2-1/16 de AF                        | 1-3/8 UNF                                                             |
| 55                                                              | 2,165                        | 55 mm                                                                              |                                                                                   |                                     | M36                                                                   |
| 55,56                                                           | 2,188                        |                                                                                    |                                                                                   | 2-3/16 de AF                        |                                                                       |
| 56,39                                                           | 2,22                         |                                                                                    |                                                                                   | 1-3/8 W; 1-1/2 BSF                  |                                                                       |
| 57,15                                                           | 2,25                         |                                                                                    |                                                                                   | 2-1/4 AF                            | 1-1/2 UNF                                                             |
| 60                                                              | 2,362                        | 60 mm                                                                              |                                                                                   |                                     | M39*                                                                  |

# MEDIDAS PARA TORNILLOS MÉTRICOS Y PARES DE APRIETE

## MEASURES FOR METRIC SCREWS AND TIGHTENING VALUES

### MESURES POUR TOURNEVIS MÉTRIQUES ET COUPLES DE SERRAGE

| MEDIDA NOMINAL<br>NOMINAL SIZE<br>MESURE NOMINALE | CABEZA HEXAGONAL /HEXAGONAL<br>HEAD /<br>TÊTE HEXAGONALE                          |                                                                                   |                                                                                   | CABEZA CILÍNDRICA /<br>HEX. SOCKET SCREW /<br>TÊTE CYLINDRIQUE                    |                                                                                   |                                                                                   | TORX **                                                                           |                                                                                    | TRIPLE<br>SQUARE                                                                    | PAR DE APRIETE RECOMENDADO<br>RECOMMENDED TIGHTENING TORQUE /<br>COUPLE DE SERRAGE RECOMMANDÉ<br>(NM) |      |       |       |       |       |
|---------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------|-------|-------|-------|-------|
|                                                   |  |  |  |  |  |  |  |  |  | GRADO<br>STRENGTH<br>GRADE                                                                            |      |       |       |       |       |
|                                                   | ESTÁNDAR<br>STANDARD<br>STANDARD                                                  | COMPACTA<br>COMPACT<br>COMPACT                                                    | ALTA RESISTENCIA<br>HIGH RESISTANCE<br>HAUTE RESISTANCE                           | ESTÁNDAR<br>STANDARD<br>STANDARD                                                  | CABEZA GOTA<br>BUTTON HEAD<br>TÊTE GOUTTE                                         | ESPÁRRAGO ALLEN<br>SET SCREW<br>GOUPILLE ALLEN                                    | T                                                                                 | E                                                                                  | XZN                                                                                 | 4.6                                                                                                   | 6.8  | 8.8   | 10.9  | 12.9  |       |
| M2                                                | 4                                                                                 |                                                                                   |                                                                                   | 0,5                                                                               |                                                                                   | 0,9                                                                               | T6<br>T8                                                                          |                                                                                    |                                                                                     |                                                                                                       | 0,12 | 0,24  | 0,32  | 0,45  | 0,54  |
| M2,5                                              | 5                                                                                 |                                                                                   |                                                                                   | 2                                                                                 |                                                                                   | 1,3                                                                               | T8                                                                                |                                                                                    | M3                                                                                  |                                                                                                       | 0,25 | 0,49  | 0,65  | 0,92  | 1,1   |
| M3                                                | 5.5                                                                               |                                                                                   |                                                                                   | 2,5                                                                               | 2                                                                                 | 1,5                                                                               | T10                                                                               | E4                                                                                 | M3                                                                                  |                                                                                                       | 0,43 | 0,87  | 1,16  | 1,63  | 1,96  |
| M3,5                                              | (6)                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | T15                                                                               |                                                                                    |                                                                                     |                                                                                                       | 0,68 | 1,37  | 1,82  | 2,56  | 3,08  |
| M4                                                | 7                                                                                 |                                                                                   |                                                                                   | 3                                                                                 | 2,5                                                                               | 2                                                                                 | T20<br>T25                                                                        | E5                                                                                 | M4                                                                                  |                                                                                                       | 1,01 | 2,02  | 2,7   | 3,79  | 4,54  |
| M5                                                | 8                                                                                 |                                                                                   |                                                                                   | 4                                                                                 | 3                                                                                 | 2,5                                                                               | T25<br>T27                                                                        | E6                                                                                 | M5                                                                                  |                                                                                                       | 2,04 | 4,09  | 5,47  | 7,67  | 9,18  |
| M6                                                | 10                                                                                |                                                                                   |                                                                                   | 5                                                                                 | 4                                                                                 | 3                                                                                 | T30                                                                               | E8                                                                                 | M6                                                                                  |                                                                                                       | 3,47 | 6,97  | 9,27  | 13    | 15,6  |
| M7                                                | 11                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | T40                                                                               | E8                                                                                 |                                                                                     |                                                                                                       | 5,85 | 11,6  | 15,5  | 21,8  | 26,2  |
| M8                                                | 13                                                                                | (12)                                                                              |                                                                                   | 6                                                                                 | 5                                                                                 | 4                                                                                 | T40<br>T45                                                                        | E10                                                                                | M8                                                                                  |                                                                                                       | 8,41 | 16,9  | 22,5  | 31,6  | 37,9  |
| M10                                               | 16<br>(17)                                                                        | (14)                                                                              |                                                                                   | 8                                                                                 | 6                                                                                 | 5                                                                                 | T50                                                                               | E12                                                                                | M10                                                                                 |                                                                                                       | 16,7 | 33,4  | 44,5  | 62,6  | 75,2  |
| M12                                               | 18<br>(19)                                                                        | (17)                                                                              | 21<br>(22)                                                                        | 10                                                                                | 8                                                                                 | 6                                                                                 | T55                                                                               | E14                                                                                | M12                                                                                 |                                                                                                       | 29,1 | 58,3  | 77,6  | 109   | 131   |
| M14                                               | 21<br>(22)                                                                        | (19)                                                                              |                                                                                   | 12                                                                                |                                                                                   |                                                                                   | T55<br>T60                                                                        | E14<br>E18                                                                         | M14                                                                                 |                                                                                                       | 46,4 | 92,7  | 124   | 174   | 209   |
| M16                                               | 24                                                                                | (22)                                                                              | 27                                                                                | 14                                                                                | 10                                                                                | 8                                                                                 | T60<br>T70                                                                        | E16<br>E20                                                                         | M16                                                                                 |                                                                                                       | 72,3 | 145   | 194   | 271   | 325   |
| M18                                               | 27                                                                                | (24)                                                                              |                                                                                   | (14)                                                                              |                                                                                   |                                                                                   | T70<br>T80                                                                        | E24                                                                                | M18                                                                                 |                                                                                                       | 100  | 199   | 266   | 373   | 447   |
| M20                                               | 30<br>(32)                                                                        | (27)<br>(29)                                                                      | 32                                                                                | 17                                                                                | 12                                                                                | 10                                                                                | T80<br>T90                                                                        | E24                                                                                |                                                                                     |                                                                                                       | 141  | 282   | 376   | 529   | 635   |
| M22                                               | 34<br>(32)<br>(35)                                                                | (30)<br>(32)                                                                      | 36                                                                                | (17)                                                                              |                                                                                   |                                                                                   | T90<br>T100                                                                       | E28                                                                                |                                                                                     |                                                                                                       | 192  | 384   | 511   | 720   | 865   |
| M24                                               | 36<br>(38)                                                                        | (32)<br>(35)                                                                      | 41                                                                                | 19                                                                                |                                                                                   | 12                                                                                | T100                                                                              | E32                                                                                |                                                                                     |                                                                                                       | 244  | 488   | 650   | 915   | 1100  |
| M27                                               | 41                                                                                | (36)                                                                              | 46                                                                                | (19)                                                                              |                                                                                   |                                                                                   |                                                                                   | E32                                                                                |                                                                                     |                                                                                                       | 358  | 713   | 951   | 1340  | 1610  |
| M30                                               | 46                                                                                | (41)                                                                              | 50                                                                                | 22                                                                                |                                                                                   |                                                                                   |                                                                                   | E36                                                                                |                                                                                     |                                                                                                       | 484  | 971   | 1290  | 1820  | 2180  |
| M33                                               | 50                                                                                | (46)                                                                              |                                                                                   | (24)                                                                              |                                                                                   |                                                                                   |                                                                                   | E40                                                                                |                                                                                     |                                                                                                       | 661  | 1320  | 1760  | 2470  | 2970  |
| M36                                               | 55<br>(54)                                                                        | (50)                                                                              |                                                                                   | 27                                                                                |                                                                                   |                                                                                   |                                                                                   | E44                                                                                |                                                                                     |                                                                                                       | 848  | 1690  | 2260  | 3180  | 3810  |
| M39                                               | 60<br>(58)                                                                        | (55)                                                                              |                                                                                   | (27)                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                                       | 1100 | 2190  | 2920  | 4110  | 4930  |
| M42                                               | 65<br>(63)                                                                        |                                                                                   |                                                                                   | 32                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                                       | 1350 | 2710  | 3610  | 5080  | 6080  |
| M45                                               | 70<br>(67)                                                                        |                                                                                   |                                                                                   | (32)                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                                       | 1700 | 3400  | 4540  | 6370  | 7630  |
| M48                                               | 75<br>(71)                                                                        |                                                                                   |                                                                                   | 36                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                                       | 2030 | 4060  | 5440  | 7620  | 9120  |
| M52                                               | 80 (77)                                                                           |                                                                                   |                                                                                   | (36)                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                                       | 2640 | 5290  | 7040  | 9880  | 11800 |
| M56                                               | 85                                                                                |                                                                                   |                                                                                   | 41                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                                       | 3270 | 6560  | 8710  | 12300 | 14800 |
| M60                                               | 90                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                                       | 4080 | 8180  | 10900 | 15300 | 18300 |
| M64                                               | 95                                                                                |                                                                                   |                                                                                   | 46                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                                       | 4930 | 9890  | 13100 | 18500 | 22300 |
| M68                                               | (100)                                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                                       | 5970 | 12000 | 16000 | 22500 | 27000 |

\*Para tornillos TORX® (Marca registrada por Acument Intellectual Properties, LLC, Troy, Mich., US)

\*For screws TORX® (Acument Intellectual Properties, LLC, Troy, Mich., US registered trademark)

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|                                                                                     |                                                                                                                                                                                                                                                                                                                                               |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <p><b>International Quality Innovation Award EGA Solutions, Excellence Finland Laatuakeskus, Moscú 2022</b><br/> <i>International Quality Innovation Award EGA Solutions, Excellence Finland Laatuakeskus, Moscow 2022</i><br/> <b>International Quality Innovation Award EGA Solutions, Excellence Finland Laatuakeskus, Moscou 2022</b></p> |    | <p><b>Certificado Bai Euskarari, 2014</b><br/> <i>Linguistic Certification, 2014</i><br/> <b>Certification Linguistique, 2014</b></p>                                                                                                                                                                                                                                        |
|    | <p><b>Quality Innovation Award EGA Solutions, Euskalit 2021</b><br/> <i>Quality Innovation Award EGA Solutions, Euskalit 2021</i><br/> <b>Quality Innovation Award EGA Solutions, Euskalit 2021</b></p>                                                                                                                                       |    | <p><b>Premio a la Internacionalización de la Cámara de Comercio de Álava, 2013</b><br/> <i>Internationalization Award, Chamber of Commerce, 2013</i><br/> <b>Prix à l'Internationalisation de la Chambre de Commerce d'Alava, 2013</b></p>                                                                                                                                   |
|    | <p><b>ISO 37001 Compliance-Antisoborno, 2021</b><br/> <i>ISO 37001 Compliance Anti-bribery Management Systems, 2021</i><br/> <b>ISO 37001 Compliance-Anticorruption, 2021</b></p>                                                                                                                                                             |    | <p><b>Premio a la Internacionalización de IE Business School e Iberinform, 2013</b><br/> <i>International Business Award 2013 by IE Business School, 2013</i><br/> <b>Prix à l'Internationalisation de IE Business School et Iberinform, 2013</b></p>                                                                                                                        |
|    | <p><b>ISO 45001, 2020</b><br/> <i>ISO 45001, 2020</i><br/> <b>ISO 45001, 2020</b></p>                                                                                                                                                                                                                                                         |    | <p><b>Premio al Producto Más Innovador, Ferroforma 2013</b><br/> <i>Award to the Most Innovative Industrial Product, Ferroforma 2013</i><br/> <b>Prix au Produit le Plus Innovateur, Ferroforma 2013</b></p>                                                                                                                                                                 |
|    | <p><b>Producto Más Innovador (Feria NSC de Seguridad, San Diego, EEUU, 2019)</b><br/> <i>"Best in Show" New Product Showcase Awards (National Safety Council 2019 Congress &amp; Expo, San Diego, USA)</i><br/> <b>Produit le plus innovateur (Salón NSC de Sécurité, San Diego, EUA, 2019)</b></p>                                           |    | <p><b>Certificado de Calidad BIKAIN, 2013</b><br/> <i>BIKAIN certificate, 2013</i><br/> <b>Certificat de qualité BIKAIN, 2013</b></p>                                                                                                                                                                                                                                        |
|    | <p><b>Premio Banco Santander a la empresa del año, 2019</b><br/> <i>Banco Santander Award to the Company, 2019</i><br/> <b>Prix Banco Santander à l'entreprise de l'année, 2019</b></p>                                                                                                                                                       |    | <p><b>Ruban d'Honneur, European Business Awards 2012/13</b><br/> <i>Ruban d'Honneur, European Business Awards 2012/13</i><br/> <b>Ruban d'Honneur, European Business Awards 2012/13</b></p>                                                                                                                                                                                  |
|    | <p><b>International Quality Innovation Award, Beijing 2019</b><br/> <i>International Quality Innovation Award, Beijing 2019</i><br/> <b>International Quality Innovation Award, Beijing 2019</b></p>                                                                                                                                          |    | <p><b>Premio Internacional al Mejor Modelo de Negocio, 2012</b><br/> <i>International Award by Development Systems to the Best Business Model, 2012</i><br/> <b>Prix International au Meilleur Modèle d'Entreprise, 2012</b></p>                                                                                                                                             |
|   | <p><b>Quality Innovation Award, Euskalit 2018</b><br/> <i>Quality Innovation Award, Euskalit 2018</i><br/> <b>Quality Innovation Award, Euskalit 2018</b></p>                                                                                                                                                                                 |   | <p><b>Premio a la Internacionalización, Club de Exportadores e Inversores, 2011</b><br/> <i>Internationalization Award by The Spanish Exporters and Investors Club, 2011</i><br/> <b>Prix de l'Internationalisation, Club des Exportateurs et Investisseurs, 2011</b></p>                                                                                                    |
|  | <p><b>Premio Confebask, Mejor Instructor, 2018</b><br/> <i>Confebask Award, Best Instructor, 2018</i><br/> <b>Prix Confebask, Meilleur Instructeur, 2018</b></p>                                                                                                                                                                              |  | <p><b>Premio Finalista en Innovación CEX Asociación Española de Centros de la Excelencia, 2011</b><br/> <i>Finalist Award for Best Practice in Innovation 2011, by CEX Spanish Association of Centers of Excellence</i><br/> <b>Prix Finaliste en Innovation CEX Association Espagnole des Centres d'Excellence, 2011</b></p>                                                |
|  | <p><b>Premio Pacto Verde a las buenas prácticas medioambientales, 2018</b><br/> <i>Green Pact Award for good environmental practices, 2018</i><br/> <b>Prix Pacte Vert aux bonnes pratiques environnementales, 2018</b></p>                                                                                                                   |  | <p><b>Premio Nacional al Relevó Generacional, 2010</b><br/> <i>Company Succession National Award, 2010</i><br/> <b>Prix national a la relève générationnel, 2010</b></p>                                                                                                                                                                                                     |
|  | <p><b>Empresa del año 2018, El Correo - Banco Sabadell</b><br/> <i>Company of the year 2018, El Correo - Banco Sabadell</i><br/> <b>Entreprise de l'année 2018, El Correo - Banco Sabadell</b></p>                                                                                                                                            |  | <p><b>Premio Iberoamericano de la Calidad y Excelencia 2010, Premio Oro</b><br/> <i>Iberoamerican Award for Quality Management &amp; Excellence 2010</i><br/> <b>Prix Ibéro-américain de la Qualité et l'Excellence 2010, Prix d'Or</b></p>                                                                                                                                  |
|  | <p><b>Premio a la Innovación Industrial Vodafone-Deia, 2017</b><br/> <i>Vodafone-Deia Industrial Innovation Award, 2017</i><br/> <b>Pris de l'innovation industrielle Vodafone-Deia 2017</b></p>                                                                                                                                              |  | <p><b>Medalla de Oro por la Oficina Nacional de la Normalización de Cuba, 2010</b><br/> <i>Gold Medal, National Office of Standards and Normalization of Cuba, 2010</i><br/> <b>Médaille d'Or par le Bureau National de la Normalisation de Cuba, 2010</b></p>                                                                                                               |
|  | <p><b>Premio BANKIA-ACOCEX a la Trayectoria Internacional, 2016</b><br/> <i>International Business Award BANKIA-ACOCEX, 2016</i><br/> <b>Prix BANKIA ACOCEX pour son Parcours International, 2016</b></p>                                                                                                                                     |  | <p><b>Premio Dato de Oro a la Empresa Solidaria, 2010</b><br/> <i>"Dato de Oro" Award on Corporate Social Responsibility, 2010</i><br/> <b>Prix Dato d'Or à l'Entreprise Solidaire, 2010</b></p>                                                                                                                                                                             |
|  | <p><b>Quality Innovation Award, Euskalit 2016</b><br/> <i>Quality Innovation Award, Euskalit 2016</i><br/> <b>Quality Innovation Award, Euskalit 2016</b></p>                                                                                                                                                                                 |  | <p><b>Premio Europeo a la Mejor Práctica de Innovación, Foro EFQM 2010</b><br/> <i>European Award to the Best Practice in Innovation, by the EFQM Forum, 2010</i><br/> <b>Prix Européen à la Meilleure Pratique d'Innovation, Forum EFQM 2010</b></p>                                                                                                                        |
|  | <p><b>Sello Pyme Innovadora del Ministerio Español de Economía y Competitividad, 2016</b><br/> <i>Innovative SME Stamp from the Spanish Ministry of Economy and Competitiveness, 2016</i><br/> <b>Label de la PME Innovatrice du Ministère Espagnole de l'Economie et de Compétitivité, 2016</b></p>                                          |  | <p><b>Premio Finalista a la Excelencia Industrial por IESE (España), INSEAD (Francia) y WHU (Alemania), 2010</b><br/> <i>Industrial Excellence Finalist Award by IESE (Spain), INSEAD (France) and WHU (Germany) Business Schools, 2010</i><br/> <b>Prix finaliste à l'Excellence Industrielle attribué par IESE (Espagne), INSEAD (France) et WHU (Allemagne), 2010</b></p> |
|  | <p><b>Premio Juan José Azurmendi a la Trayectoria Empresarial, 2014</b><br/> <i>Employers Federation Award for a Lifelong Entrepreneurial Achievement, 2014</i><br/> <b>Prix Juan José Azurmendi à la Trajectoire Entrepreneuriale, 2014</b></p>                                                                                              |  | <p><b>Premio Gran Emprendedor, 2010</b><br/> <i>Great Entrepreneur Award for the Founder and Chairman of EGA Master, 2010</i><br/> <b>Prix Grand Entrepreneur, 2010</b></p>                                                                                                                                                                                                  |
|  | <p><b>Premio Lazarraga, 2014</b><br/> <i>Basque Language Award, 2014</i><br/> <b>Prix de la Langue Basque, 2014</b></p>                                                                                                                                                                                                                       |  | <p><b>Premio I+D+i en Herramientas de Seguridad, 2010</b><br/> <i>R&amp;D Award for Safety Tools, 2010</i><br/> <b>Prix R&amp;D+i pour les Outils de Sécurité, 2010</b></p>                                                                                                                                                                                                  |
|  | <p><b>OHSAS 18001, 2014</b><br/> <i>OHSAS 18001, 2014</i><br/> <b>OHSAS 18001, 2014</b></p>                                                                                                                                                                                                                                                   |  | <p><b>Q de Oro EFQM, 2009</b><br/> <i>EFQM Golden Q Award, 2009</i><br/> <b>Q d'Or EFQM, 2009</b></p>                                                                                                                                                                                                                                                                        |





**Premio Human a la Estrategia Basada en Personas, 2009**  
Human Award for its Strategy Based on People, 2009  
Prix Human pour la Stratégie Basée sur les Personnes, 2009



**Premio a la Mejor Idea en Herramientas del Club de Inventores Españoles, 2007**  
Best Tool Award by "Spanish Inventor's Club", 2007  
Prix à la Meilleure Idée en Outillage du Club des Inventeurs Espagnols, 2007



**Premio ICIL a la Excelencia Logística, 2009**  
ICIL Award to Excellence in Logistics, 2009  
Prix ICIL à l'excellence en Logistique, 2009



**Medalla de Oro a la Calidad de la Oficina Nacional de la Normalización de Cuba, 2006**  
Gold Medal, National Office of Standards and Normalization of Cuba 2006  
Médaille d'Or à la Qualité du Bureau National de la Normalisation de Cuba, 2006



**ISO 9001:2008, 2009**  
ISO 9001:2008, 2009  
ISO 9001-2008, 2009



**Premio al Mejor Diseño de la Oficina Nacional de Diseño Industrial de Cuba a la Llave Vasca, 2006**  
Best Design Award, National Office of Industrial Design of Cuba, 2006  
Prix du Meilleur Dessin du Bureau National de Dessin Industriel de Cuba pour la Clé Basque, 2006



**Premio Finalista a la Mejor Web Corporativa, 2009**  
Finalist Award to the Best Company Website, March 2009  
Prix Finaliste au Meilleur Site Web Corporatif, 2009



**Premio Finalista Príncipe Felipe a la Excelencia Empresarial, 2005**  
Principe Felipe Finalist Award to Corporate Excellence, 2005  
Prix Finaliste Principe Felipe à l'Excellence Industrielle, 2005



**Premio Príncipe Felipe a la Excelencia en Competitividad Empresarial, 2008**  
Principe Felipe Award to Corporate Excellence in Competitiveness, 2008  
Prix Principe Felipe à l'Excellence en Compétitivité Entrepreneuriale, 2008



**Q de Plata EFQM, 2005**  
EFQM Silver Q Award, 2005  
Q d'Argent EFQM, 2005



**Premio Finalista Príncipe Felipe a la Excelencia Empresarial en Internacionalización, 2008**  
Principe Felipe Finalist Award to Corporate Excellence in Internationalization, 2008  
Prix Finaliste Principe Felipe a l'Excellence Entreprise en Internationalisation, 2008



**Premio ARGILAN "Empresa y Empleo en Igualdad", 2005**  
ARGILAN Award for Gender Equality at the Work Place, 2005  
Prix ARGILAN "Entreprise et Emploi en Egalité", 2005



**Premio Toribio Echevarría de Internacionalización, 2008**  
Toribio Echevarría Export Award, 2008  
Prix Toribio Echevarría de l'Internationalisation, 2008



**5 Medallas en el Salón Internacional de la Invención de París, "Concours Lepine", Paris 2004**  
5 Medals received at the International Invention Competition in Paris, "Concours Lepine" 2004  
5 Médailles au Salon International de l'Invention de Paris, "Concours Lepine", Paris 2004



**Medalla de Oro al Diseño por la Oficina Nacional de la Normalización de Cuba, 2008**  
Gold Medal by the Cuban Office of Normalization, 2008  
Médaille d'Or au Design par le Bureau National de la Normalisation de Cuba, 2008



**Joven Empresario del Año, 2003**  
Young Businessman Award, 2003  
Jeune Entrepreneur de l'Année, 2003



**Q de Plata EFQM, 2008**  
EFQM Silver Q Award, 2008  
Q d'Argent EFQM, 2008



**Premio Especial de la Unión Francesa de Inventores, 2003**  
Special Prize of French Inventor Association, 2003  
Prix Spécial de l'Union Française des Inventeurs, 2003



**Premio Finalista Dato de Oro a la Empresa Solidaria de Álava, 2008**  
"Dato de Oro" Finalist Award on Corporate Social Responsibility, 2008  
Finaliste Dato d'Or à l'Entreprise Solidaire d'Álava, 2008



**Diploma de Ekoscan, 2003**  
Ekoskan Diploma 2003  
Diplôme d'Ekoscan, 2003



**La Llave Alavesa de EGA Master elegida para la Exposición "La Utilidad del Diseño" del Círculo de Bellas Artes, 2008**  
The Fine Arts Circle of Spain chooses the Basque Wrench for its "Usefulness of Design" Exhibition 2008  
La Clé Basque d'EGA Master élue pour l'exposition « l'Utilité du Dessin » du Cercle des Beaux Arts, 2008



**Medalla de Plata del Mundial de la Invención e Innovación, Paris 2003**  
Silver Medal at the World Congress of Innovation and Invention, Paris 2003  
Médaille d'argent au Mondial de l'Invention et de l'innovation, Paris 2003



**Premio a la Integración Profesional de los Jóvenes de la Fundación Novia Salcedo, 2008**  
Excellence Award to the Professional Integration of Young People by Novia Salcedo Foundation, 2008  
Prix à l'Intégration Professionnelle des Jeunes de la Fondation Novia Salcedo, 2008



**ISO 9001:2000, 2003**  
ISO 9001:2000, 2003  
ISO 9001-2000, 2003



**Premio Mejor Producto del Año a la Mastergrip, 2007**  
Best Product Award for Mastergrip, 2007  
Prix du Meilleur Produit de l'Année à la Mastergrip, 2007



**Premio a la Exportación, 2002**  
Export Award of Chamber of Commerce, 2002  
Prix à l'Exportación, 2002



**Premio al Mejor Diseño de la Oficina Nacional de Diseño Industrial de Cuba, 2007**  
Best Design Award National Office of Industrial Design of Cuba, 2007  
Prix au Meilleur Design du Bureau National du Design Industriel de Cuba, 2007



**Diploma de Excelencia EFQM, 2002**  
EFQM Excellence Diploma, 2002  
Diplôme d'Excellence EFQM, 2002



**ISO 14001:2004, 2007**  
ISO 14001:2004, 2007  
ISO 14001-2004, 2007



**Premio a la Innovación Metalmaq, 2001**  
Innovation Award at Metalmaq, Lisbon 2001  
Prix à l'innovation Metalmaq, 2001



**5 Medallas obtenidas en el Salón Internacional de la Invención de París, "Concours Lepine", Paris 2007**  
5 Medals received at the International Invention Competition in Paris, "Concours Lepine" April 2007  
5 Médailles obtenues au Salon International de l'Invention de Paris, "Concours Lepine", Paris 2007



**Trofeo Internacional a la Calidad, Paris 1998**  
International Quality Award, Paris 1998  
Trophée International à la Qualité, Paris 1998



**Premio a la Calidad, otorgado por el Ministerio de la Construcción de Cuba, 2007**  
Quality Award, Ministry of Construction of Cuba, 2007  
Prix à la Qualité, attribué par le Ministère de la Construction de Cuba, 2007



**Empresa Alavesa del Año, 1998**  
Company of the Year, 1998  
Entreprise de l'Année 1998 en Alava

# Certificate

Standard **ISO 9001:2015**

Certificate Registr. No. **01 100 98046**

Certificate Holder:



**EGA MASTER, S.L.**  
c/ Zorrolleta, 11 - Pol. Ind. Jundiz  
01015 Vitoria - Gasteiz (Alava)  
Spain.

Scope: Conception, design, manufacturing, control, marketing and after-sales service of tools.

Proof has been furnished by means of an audit that the requirements of ISO 9001:2015 are met.

Validity: The certificate is valid from 2024-03-01 until 2027-02-28.  
First certification 2000.

2024-02-20

TÜV Rheinland Cert GmbH  
Am Grauen Stein - 51105 Köln

# Certificate

Standard **ISO 14001:2015**

Certificate Registr. No. **01 104 079648**

Certificate Holder:



**EGA MASTER, S.L.**  
Pol. Ind. Jündiz C/ Zorrolleta, 11  
01015 Vitoria - Gasteiz (Alava)  
Spain.

Scope: Conception, design, manufacturing, control, marketing and after-sales service of tools.

Proof has been furnished by means of an audit that the requirements of ISO 14001:2015 are met.

Validity: The certificate is valid from 2024-05-29 until 2027-05-28.  
First certification 2007.

2024-03-21

  
TÜV Rheinland Cert GmbH  
Am Grauen Stein · 51105 Köln



# CERTIFICATE

No.

AS-0004/21

**LGAI Technological Center, S.A. (Applus+)**  
certifies that the Anti-bribery Management Systems of the  
organization:

## EGA MASTER, S.L.

C/ Zorrolleta 11. Polígono Industrial Jundiz.  
01015, Vitoria

For the following activities of:

Conception, design, manufacturing, control, marketing and after-sales service of tools.

**is in accordance with the requirements of the standard UNE-ISO  
37001:2017**

INITIAL CERTIFICATION DATE: 28/05/2021  
THIS CERTIFICATE IS VALID UNTIL: 27/05/2024

General Director  
Applus+ Certification B.U.

Xavier Ruíz Peña

Technical Director  
Applus+ Certification B.U.

Cristina Bachiller Martínez

This certificate will be regarded as valid provided that all the contract conditions for which it is part of were be fulfilled  
LGAI Technological Center, S.A. (Applus+) Campus U.A.B., Ronda de la Font del Carne s/n, 08193 Bellaterra, Barcelona.



# CERTIFICATE

No.

PRL-0712/17

**LGAI Technological Center, S.A. (Applus+)**  
certifies that the Occupational Health and Safety Management System  
of the organization:

## EGA MASTER, S.L.

EGA MASTER, S.L.  
C/ Zorrolleta Nº11 , Pol. Ind. Jundiz  
01015, Vitoria (Álava)

For the following activities of:

Conception, design, marketing and after-sales services of hand tools.

This organization was initially certified against the OHSAS 18001 standard.

is in accordance with the requirements of the standard **ISO 45001:2018**



INITIAL CERTIFICATION DATE: 15/12/2017  
EFFECTIVE FROM: 15/12/2020  
THIS CERTIFICATE IS VALID UNTIL: 14/12/2023

General Director  
Applus+ Certification, B.U.

Juan Sendin Caballero

Technical Director  
Applus+ Certification, B.U.

Cristina Bachiller Martinez

This certificate will be regarded as valid provided that all the contract conditions for which it is part of were be fulfilled  
LGAI Technological Center, S.A. (Applus+) Campus U.A.B., Ronda de la Font del Carme s/n, 08193 Bellaterra, Barcelona

## Miembro de / Member of / Membre de :



Fastening Excellence Center  
[www.fasteningexcellencecenter.com](http://www.fasteningexcellencecenter.com)



Asociación Española del Hidrógeno  
Spanish Hydrogen Association  
Association Espagnole de l'Hydrogène  
[www.aeh2.org](http://www.aeh2.org)



HEGAN - Basque Aerospace Cluster  
[www.hegan.com](http://www.hegan.com)



Asociación Española de Equipos, Soluciones y Tecnologías de Proceso en la Manipulación de Fluidos  
Spanish Association of Equipment, Solutions and Process Technologies in Fluid Handling  
Association Espagnole des Equipements, Solutions et Technologies de Traitement des Fluides  
[www.fluidexspain.com](http://www.fluidexspain.com)



Federación de Fabricantes Exportadores de Artículos de Ferreteria  
Spanish Hardware Manufacturers Federation  
Fédération Espagnole de Fabricants Exportateurs d'Articles de Quincaillerie  
[www.cofearfe.com](http://www.cofearfe.com)



Foro de Marcas Líderes Renombradas Españolas  
Leading Brands of Spain Forum  
Forum des Marques de Renom Espagnoles  
[www.brandsofspain.com](http://www.brandsofspain.com)



Fundación Vasca para la Calidad  
Basque Foundation for Quality  
Fondation Basque pour la Qualité  
[www.euskalit.net](http://www.euskalit.net)



Red Vasca de Ciencia Tecnología e Innovación  
Agency of Innovation  
Agence Basque de l'Innovation  
[www.innobasque.com](http://www.innobasque.com)



Club de Exportadores e Inversores Españoles  
Spanish Exporters and Investors Club  
Club des Exportateurs et Investisseurs Espagnols  
[www.clubexportadores.org](http://www.clubexportadores.org)



Iniciativa Global Drops para la prevención de caída de objetos  
The dropped objects prevention scheme global resource centre  
Initiative globale Drops de la prévention de chute d'objets  
[www.dropsonline.org](http://www.dropsonline.org)



Agrupación de Industrias Marítimas de Euskadi  
Association of Maritime Industries of the Basque Country  
Association des Industries Maritimes Basques  
[www.adimde.es](http://www.adimde.es)



Sindicato Empresarial Alavés  
Employer Federation of Alava  
Syndicat des Employés d'Alava  
[sie.sea.es](http://sie.sea.es)



Miembro del Foro Club de la Cámara de Comercio e Industria de Álava  
Chamber of Commerce of Alava  
Chambre de Commerce d'Alava  
[www.camaradealava.com](http://www.camaradealava.com)



Asociación para el Progreso de la Dirección  
Association for Progress in Management  
Association pour le Progrès dans le Management  
[www.apd.es](http://www.apd.es)



Fundación Iberoamericana para la Calidad  
Foundation for Quality  
Fondation Ibero-Américaine pour la Gestion de la Qualité  
[www.fundibeq.org](http://www.fundibeq.org)



Asociación de Centros de Excelencia a Nivel Nacional  
Association of Centers of Excellence  
Association de Centres d'Excellence à Niveau National  
[www.centrosdeexcelencia.com](http://www.centrosdeexcelencia.com)



Asociación Española del Pacto Mundial Un Global Compact  
Un Global Compact  
Association Espagnole du Pacte Mondial Un Global Compact  
[www.pactomundial.org](http://www.pactomundial.org)



Asociación Sectorial de Equipos, Componentes y Servicios de Energías Renovables  
Energy Supply Chain  
Association Sectorielle des Équipements, Composants et Services des Énergies Renouvelables  
[www.eschain.com](http://www.eschain.com)

## Presentado como ejemplo por:

- Comisión Europea
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- Diputación Foral de Bizkaia
- Universidad del País Vasco
- Congreso Internacional de Managing
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- Universidad de Strathclyde de Escocia
- Foro de Empresas Avanzadas en Gestión del Cluster del Conocimiento
  - Universidad Autónoma de Madrid
  - Forum Europa
  - Club de Marketing de la Rioja
- Euskalit- Fundación Vasca para la Calidad
- CETIC -Centro de Tecnologías de la Información y la Comunicación
- Escuelas de Negocios IESE (España), INSEAD (Francia) y WHU (Alemania)
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  - Fundación ICIL
  - Universidad de Deusto
  - SEA - Empresarios Alaveses
  - Gobierno Vasco (SPRI)
- Ministerio de Industria (Círculo Bellas Artes)
- Fundación Navarra para la Excelencia
  - Universidad de Navarra
  - CFL (Dinamarca)
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  - Universidad Adolfo Ibañez (Chile)

## Presented as an example by:

- European Commission
- Provincial Government of Alava
- Provincial Government of Bizkaia
- University of the Basque Country
- International Management Congress
- 5th Meeting of Innovation in Management (Bilbao)
- University of Strathclyde (Scotland)
- Forum of Companies Advanced in Management of the Cluster of Knowledge
  - Autonomous University of Madrid
  - Forum Europa
  - Marketing Club of Rioja
- Euskalit- Basque Foundation for Quality
- CETIC- Center of Information and Communication Technologies
- IESE (Spain), INSEAD (France) and WHU (Germany) Business Schools
  - Boise University EEUU
- Innobasque, Basque Innovation Agency
  - ICIL Foundation
  - Deusto University
  - SEA - Entrepreneurs of Alava
  - Basque Government (SPRI)
  - Ministry of Industry
- Navarra Foundation for Excellence
  - University of Navarra
  - Center for Ledesle, CFL (Denmark)
- Association for Progress in Management (APD)
  - Adolfo Ibañez University (Chile)

## Présenté comme exemple pour:

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- Députation d'Alava
- Députation de Biscaye
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- Congrès International du Management
- V Journées de l'Innovation dans la Gestion (Bilbao)
- Université de Strathclyde de l'Ecosse
- Forum des Entreprises Avancées en Gestion du Cluster des Connaissances
  - Université Autonome de Madrid
  - Forum Europe
  - Marketing Club de la Rioja
- Euskalit- Fondation Basque pour la Qualité
- CETIC- Centre de Technologies de l'Information et de la Communication
- Écoles Supérieures de Commerce IESE (Espagne), INSEAD (France) et WHU (Allemagne)
  - Université de Boise, EEUU
- Innobasque, Agence Basque pour l'Innovation
  - Fondation ICIL
  - Université de Deusto
  - SEA - Entrepreneurs d'Alava
  - Gouvernement Basque (SPRI)
- Ministère d'Industrie (Cercle de Beux-Arts)
- Fondation Navarre pour l'Excellence
  - Université de Navarre
  - CFL (Danemark)
- Association pour le Progrès dans le Management (APD)
  - Université Adolfo Ibañez (Chili)

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# EGA Master

## ART IN INNOVATION

### BE SAFE...BE EFFICIENT



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Prix Ibero-américain



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Ruban d'Honneur European Business Awards



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